Product	gene_short_name	Entrez_GeneID	CHOK1_1_FPKM	CHOK1_2_FPKM	PgsA745_1_FPKM	PgsA745_2_FPKM	Pgsa745.XYLT1_1_FPKM	Pgsa745.XYLT1_2_FPKM	CHOK1_1_NormCount	CHOK1_2_NormCount	PgsA745_1_NormCount	PgsA745_2_NormCount	Pgsa745.XYLT1_1_NormCount	Pgsa745.XYLT1_2_NormCount
APOBEC1 complementation factor	A1cf	100767014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-2-macroglobulin-like 1	A2ml1	100762067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha 1,3-galactosyltransferase 2	A3galt2	100774283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha 1,4-galactosyltransferase	A4galt	100770462	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	1.24	1.16	2.07	1.87
alpha-1,4-N-acetylglucosaminyltransferase	A4gnt	100771969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase F0 subunit 6	ATP6	3979188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase F0 subunit 8	ATP8	3979187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
achalasia, adrenocortical insufficiency, alacrimia	Aaas	100767976	22.67	22.81	28.71	28.67	29.70	29.22	1269.95	1270.98	1570.00	1530.93	1609.40	1584.27
acetoacetyl-CoA synthetase	Aacs	100750893	9.16	9.04	10.16	8.70	7.75	8.25	859.04	845.49	956.41	830.95	729.67	777.65
arylacetamide deacetylase	Aadac	100771815	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 3	Aadacl3	100751803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aminoadipate aminotransferase	Aadat	100771752	0.03	0.04	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
AhpC/TSA antioxidant enzyme domain containing 1	Aaed1	100760049	8.98	9.09	8.41	10.07	10.93	11.12	342.55	348.63	337.85	385.92	395.36	426.21
alpha- and gamma-adaptin binding protein	Aagab	100756630	26.67	26.86	25.68	27.14	29.92	31.39	1095.26	1150.20	1121.60	1175.14	1311.33	1309.47
AP2 associated kinase 1	Aak1	100771995	7.39	7.58	7.85	7.39	12.60	12.61	1190.96	1231.64	1233.39	1222.66	1796.74	1813.26
adipogenesis associated, Mth938 domain containing	Aamdc	100767599	11.97	9.93	10.88	14.94	15.44	15.54	101.78	97.91	93.16	115.89	117.99	121.51
angio-associated, migratory cell protein	Aamp	100775009	104.78	101.62	104.85	89.55	64.68	74.06	4988.65	4910.07	5165.84	4436.35	3329.55	3668.58
aralkylamine N-acetyltransferase	Aanat	100755392	0.00	0.00	0.00	0.09	0.00	0.00	0.76	0.00	2.48	1.16	0.00	0.00
AAR2 splicing factor homolog (S. cerevisiae)	Aar2	100752282	41.72	35.85	36.45	36.08	32.60	41.51	2386.47	2127.45	2156.26	2072.15	1997.52	2346.96
alanyl-tRNA synthetase	Aars	100766178	168.01	161.99	189.80	187.18	157.46	164.23	17000.77	16681.98	19575.29	19149.99	16130.26	16628.71
alanyl-tRNA synthetase 2, mitochondrial	Aars2	100754221	6.82	6.64	5.71	4.11	2.82	3.14	940.31	923.27	797.42	563.24	397.43	438.36
	Aasdh	100770305	13.56	12.98	10.96	10.62	11.54	13.20	603.07	591.11	494.35	514.56	541.30	596.32
aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	Aasdhppt	100754811	46.93	48.82	59.83	63.18	66.37	63.82	3527.30	3704.97	4554.73	4770.11	4978.28	4809.81
aminoadipate-semialdehyde synthase	Aass	100751161	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
apoptosis antagonizing transcription factor	Aatf	100758164	102.38	99.19	56.74	63.20	59.41	56.87	6519.88	6373.21	3691.48	4029.56	3768.39	3595.67
apoptosis-associated tyrosine kinase	Aatk	100753989	0.35	0.25	0.13	0.09	0.06	0.09	60.00	48.50	26.08	13.91	12.42	14.95
4-aminobutyrate aminotransferase	Abat	100765485	0.00	0.02	0.00	0.03	0.00	0.03	1.52	1.83	0.00	5.79	2.07	7.48
ATP-binding cassette, sub-family A (ABC1), member 1	Abca1	100761226	27.39	28.17	48.59	55.26	53.61	53.13	8550.89	8821.84	15386.97	17295.72	16690.19	16465.14
ATP-binding cassette, sub-family A (ABC1), member 13	Abca13	100753262	0.01	0.01	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
ATP-binding cassette, sub-family A (ABC1), member 2	Abca2	100772799	5.26	4.97	5.80	4.52	3.88	4.34	1306.41	1230.72	1452.00	1116.04	975.99	1083.28

ATP-binding cassette, sub-family A (ABC1), member 3	Abca3	100770749	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	3.73	2.32	0.00	0.00
ATP-binding cassette, sub-family A (ABC1), member 5	Abca5	100772052	2.21	2.24	2.91	3.44	4.89	4.44	352.43	361.44	462.06	542.37	768.99	702.87
ATP-binding cassette, sub-family A (ABC1), member 6	Abca6	100772341	0.01	0.03	0.01	0.01	0.00	0.00	3.04	5.49	2.48	4.64	2.07	0.00
ATP-binding cassette, sub-family A (ABC1), member 7	Abca7	100764464	1.30	1.16	1.68	1.37	1.12	1.21	307.61	281.83	387.53	327.97	252.54	282.27
ATP-binding cassette, sub-family A (ABC1), member 8	Abca8	100773221	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette, sub-family A (ABC1), member 9	Abca9	100772634	0.18	0.19	0.00	0.01	0.00	0.01	32.66	39.35	0.00	1.16	0.00	0.93
ATP-binding cassette, sub-family B (MDR/TAP), member 10	Abcb10	100774734	2.79	2.39	2.75	2.63	3.10	2.72	305.33	261.70	305.55	288.57	332.23	299.09
ATP-binding cassette, sub-family B (MDR/TAP), member 11	Abcb11	100762480	0.00	0.02	0.00	0.01	0.00	0.00	0.00	1.83	1.24	1.16	0.00	0.00
ATP-binding cassette, sub-family B (MDR/TAP), member 1A	Abcb1a	100682536	26.99	27.77	30.62	33.06	35.32	33.55	3158.16	3317.00	3671.61	3841.82	4050.94	3910.66
ATP-binding cassette, sub-family B (MDR/TAP), member 1B	Abcb1b	100682537	5.62	5.26	5.86	7.99	8.20	7.60	353.95	346.80	448.39	527.31	560.96	537.44
ATP-binding cassette, sub-family B (MDR/TAP), member 4	Abcb4	100682535	0.26	0.24	0.19	0.20	0.14	0.19	0.76	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette, sub-family B (MDR/TAP), member 6	Abcb6	100768549	12.84	11.57	13.09	13.48	13.12	12.49	1167.41	1086.14	1213.52	1234.25	1238.88	1161.79
ATP-binding cassette, sub-family B (MDR/TAP), member 7	Abcb7	100766714	12.04	11.84	10.73	11.69	13.69	12.87	2081.90	2043.27	1855.68	2036.22	2365.98	2239.47
ATP-binding cassette, sub-family B (MDR/TAP), member 8	Abcb8	100763667	7.25	7.40	6.31	5.26	4.01	4.63	1247.92	1290.20	1119.12	967.70	728.63	847.75
ATP-binding cassette, sub-family B (MDR/TAP), member 9	Abcb9	100772877	0.03	0.02	0.06	0.00	0.03	0.00	4.56	1.83	6.21	1.16	3.10	2.80
ATP-binding cassette, sub-family C (CFTR/MRP), member 1	Abcc1	100689208	14.21	14.06	14.81	14.28	12.15	13.54	2616.61	2609.68	2746.25	2649.29	2240.75	2513.33
ATP-binding cassette, sub-family C (CFTR/MRP), member 10	Abcc10	100757623	2.14	2.12	1.67	1.50	1.24	1.28	332.68	332.16	259.60	229.47	196.65	212.17
ATP-binding cassette, sub-family C (CFTR/MRP), member 2	Abcc2	100689220	0.10	0.10	0.07	0.08	0.09	0.11	15.95	20.13	12.42	15.07	18.63	21.50
ATP-binding cassette, sub-family C (CFTR/MRP), member 3	Abcc3	100767558	2.70	2.52	0.86	0.83	0.86	0.99	423.06	414.51	145.32	137.91	136.62	160.76
ATP-binding cassette, sub-family C (CFTR/MRP), member 4	Abcc4	100766754	16.96	16.60	17.04	18.73	19.86	18.40	2809.54	2769.81	2810.84	3053.75	3225.02	2983.47
ATP-binding cassette, sub-family C (CFTR/MRP), member 5	Abcc5	100774121	10.50	10.48	14.11	15.42	13.69	15.05	1495.53	1577.52	2219.61	2356.08	2134.14	2220.78
ATP-binding cassette, sub-family C (CFTR/MRP), member 6	Abcc6	100752070	0.06	0.12	0.01	0.00	0.01	0.00	12.15	16.47	2.48	1.16	1.03	0.00
ATP-binding cassette, sub-family C (CFTR/MRP), member 8	Abcc8	100764394	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette, sub-family C (CFTR/MRP), member 9	Abcc9	100769198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette, sub-family D (ALD), member 1	Abcd1	100769988	2.33	2.26	2.99	2.38	2.51	2.52	246.09	241.57	320.46	244.53	274.27	259.84
ATP-binding cassette, sub-family D (ALD), member 2	Abcd2	100758232	2.70	2.24	2.47	2.98	3.37	3.25	252.17	216.86	236.00	288.57	317.74	301.90
ATP-binding cassette, sub-family D (ALD), member 3	Abcd3	100765314	19.40	20.57	15.57	17.33	17.33	16.53	1869.99	1990.20	1500.44	1638.71	1660.12	1582.40

ATP-binding cassette, sub-family D (ALD), member 4	Abcd4	100768387	5.74	5.11	5.24	6.06	4.28	5.37	424.58	395.29	416.10	471.68	371.56	393.50
ATP-binding cassette, sub-family E (OABP), member 1	Abce1	100773014	73.88	72.32	70.14	77.17	79.73	74.03	7953.89	7790.60	7568.04	8198.20	8446.52	7883.00
ATP-binding cassette, sub-family F (GCN20), member 1	Abcf1	100765933	101.40	99.86	105.74	96.01	71.67	75.84	10040.35	10078.18	10640.96	9471.85	7259.39	7540.92
ATP-binding cassette, sub-family F (GCN20), member 2	Abcf2	100760577	79.31	77.54	82.31	78.82	65.53	68.77	5578.06	5507.59	5893.70	5592.95	4659.51	4909.82
ATP-binding cassette, sub-family F (GCN20), member 3	Abcf3	100772769	19.03	17.92	20.25	20.52	17.81	19.24	1670.23	1632.42	1812.20	1825.30	1611.47	1716.99
ATP-binding cassette, sub-family G (WHITE), member 1	Abcg1	100759619	0.14	0.18	0.06	0.03	0.11	0.12	9.87	13.73	4.97	3.48	8.28	13.09
ATP-binding cassette, sub-family G (WHITE), member 2	Abcg2	100761503	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
ATP-binding cassette, sub-family G (WHITE), member 4	Abcg4	100756677	0.46	0.55	0.55	0.32	0.46	0.37	41.02	47.58	50.93	28.97	39.33	29.91
ATP-binding cassette, sub-family G (WHITE), member 5	Abcg5	100761230	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.92	0.00	1.16	0.00	0.93
ATP-binding cassette, sub-family G (WHITE), member 8	Abcg8	100765601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
abhydrolase domain containing 1	Abhd1	100763847	2.42	2.37	2.73	3.14	3.03	3.28	549.15	532.55	621.04	710.42	712.07	732.78
abhydrolase domain containing 10	Abhd10	100770127	9.25	9.90	9.98	9.78	10.33	10.19	404.07	430.07	422.31	420.69	448.15	439.29
abhydrolase domain containing 11	Abhd11	100766777	22.75	21.88	25.25	21.76	20.28	22.58	938.79	915.95	1048.32	888.89	836.27	919.71
abhydrolase domain containing 12	Abhd12	100765125	13.11	13.38	17.98	17.45	16.66	15.67	690.42	711.90	950.20	920.18	863.18	814.10
abhydrolase domain containing 12B	Abhd12b	100752990	0.15	0.09	0.05	0.05	0.10	0.15	12.15	13.73	7.45	3.48	10.35	10.28
abhydrolase domain containing 13	Abhd13	100754934	9.59	9.25	10.80	10.21	12.20	10.82	729.92	694.51	818.54	790.38	925.28	819.71
abhydrolase domain containing 14A	Abhd14a	100765996	33.39	28.54	32.33	29.60	18.64	20.40	932.71	790.59	927.84	798.50	523.70	566.41
abhydrolase domain containing 14B	Abhd14b	100759415	9.33	8.72	7.43	6.44	6.50	8.21	296.22	284.58	249.66	225.99	230.80	282.27
abhydrolase domain containing 15	Abhd15	100758482	0.76	0.96	0.96	0.75	0.69	0.93	51.65	64.05	63.35	46.36	44.50	71.03
abhydrolase domain containing 16A	Abhd16a	100771419	13.54	12.97	15.15	10.49	7.06	7.83	1010.95	984.58	1145.20	773.00	547.51	604.73
abhydrolase domain containing 16B	Abhd16b	100762917	0.36	0.18	0.20	0.16	0.20	0.21	25.06	10.98	12.42	11.59	14.49	14.95
abhydrolase domain containing 17A	Abhd17a	100769196	5.55	5.81	5.58	3.00	2.18	2.37	707.89	746.67	719.17	375.49	263.92	302.83
abhydrolase domain containing 17B	Abhd17b	100773175	11.99	12.08	11.74	12.64	13.69	13.44	728.40	730.20	709.23	756.77	824.88	811.29
abhydrolase domain containing 17C	Abhd17c	100759841	35.44	35.75	43.98	45.85	47.45	46.99	1748.46	1778.83	2182.35	2245.99	2311.12	2298.35
abhydrolase domain containing 2	Abhd2	100755212	44.56	43.55	36.52	41.06	43.82	43.87	5719.33	5646.67	4741.05	5315.97	5648.96	5707.09
abhydrolase domain containing 3	Abhd3	100766111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
abhydrolase domain containing 4	Abhd4	100767680	18.81	18.85	18.47	21.33	21.11	23.31	1235.77	1236.21	1222.21	1391.86	1373.43	1526.32
abhydrolase domain containing 5	Abhd5	100769851	18.48	19.34	18.69	21.48	22.84	21.37	1588.96	1701.96	1630.86	1846.16	1946.81	1841.30
abhydrolase domain containing 6	Abhd6	100769391	27.33	25.99	11.37	11.07	10.83	11.04	1806.94	1741.31	771.34	734.76	724.49	726.24
abhydrolase domain containing 8	Abhd8	100752213	7.72	7.14	7.71	4.34	3.09	3.41	582.57	521.57	573.84	319.86	224.59	255.16

abl-interactor 1	Abi1	100772463	21.00	21.90	24.59	25.69	26.39	25.69	1670.23	1771.50	1952.56	2022.32	1948.88	1955.33
abl-interactor 2	Abi2	100768975	6.96	6.61	6.07	7.11	7.90	7.88	1160.58	1112.68	1044.60	1209.91	1320.64	1340.32
ABI family, member 3	Abi3	100754696	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.93
ABI family, member 3 (NESH) binding protein	Abi3bp	100754709	0.02	0.02	0.04	0.00	0.01	0.00	1.52	4.58	6.21	1.16	1.03	4.67
c-abl oncogene 1, non-receptor tyrosine kinase	Abl1	100768098	11.93	11.53	11.44	9.89	7.80	8.32	1751.50	1729.41	1720.29	1472.99	1184.02	1281.43
c-abl oncogene 2, non-receptor tyrosine kinase	Abl2	100772469	10.12	9.66	7.92	8.41	7.97	9.33	3076.13	2847.58	2474.24	2633.07	2477.76	2908.69
actin binding LIM protein 1	Ablim1	100767228	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
actin binding LIM protein family, member 2	Ablim2	100774533	0.41	0.41	0.11	0.13	0.05	0.09	44.81	46.67	13.66	11.59	5.17	8.41
actin binding LIM protein family, member 3	Ablim3	100759449	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase)	Abo	100772592	0.07	0.05	0.09	0.09	0.04	0.07	3.04	1.83	4.97	4.64	2.07	5.61
active BCR-related	Abr	100762348	29.23	28.92	35.20	36.99	37.29	38.93	4240.51	4305.23	5200.62	5416.79	5474.04	5656.62
actin-binding Rho activating protein	Abra	100767760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ABRA C-terminal like	Abracl	100769731	52.28	53.97	52.74	52.15	58.70	56.75	1121.08	1188.63	1146.45	1133.42	1187.13	1163.66
activator of basal transcription 1	Abt1	100771876	20.79	19.82	18.19	16.06	14.57	13.50	1727.19	1659.87	1520.31	1332.76	1201.62	1117.86
ankyrin repeat and BTB (POZ) domain containing 1	Abtb1	100767751	2.13	1.86	2.23	1.77	1.12	1.30	152.67	132.68	155.26	129.80	79.69	94.40
ankyrin repeat and BTB (POZ) domain containing 2	Abtb2	100756314	0.25	0.28	0.02	0.02	0.00	0.01	45.57	43.01	14.91	19.70	14.49	12.15
acetyl-CoA acyltransferase 2	Acaa2	100765829	32.42	33.65	32.03	31.69	32.44	32.54	1405.15	1451.24	1384.93	1340.87	1333.06	1400.14
acetyl-CoA carboxylase alpha	Acaca	100689225	14.95	15.42	8.66	8.70	10.03	9.87						
acetyl-CoA carboxylase alpha	Acaca	100762904	23.74	23.63	12.73	13.67	13.28	13.71	6117.33	6183.80	3374.75	3534.71	3547.93	3599.41
acetyl-CoA carboxylase beta	Acacb	100753124	0.75	0.69	0.80	0.83	0.69	0.65	190.64	181.18	203.70	209.76	180.09	171.04
acyl-CoA dehydrogenase family, member 10	Acad10	100763570	6.21	6.13	7.15	6.54	5.40	6.07	672.95	679.87	793.69	723.17	596.15	666.42
acyl-CoA dehydrogenase family, member 11	Acad11	100763073	3.88	3.90	2.17	2.75	3.26	3.15	464.84	464.84	262.08	323.34	400.54	374.80
acyl-CoA dehydrogenase family, member 8	Acad8	100751213	7.74	8.16	8.51	8.46	8.37	8.78	468.64	489.54	542.79	540.06	526.81	548.65
acyl-CoA dehydrogenase family, member 9	Acad9	100770943	19.54	20.26	24.48	25.82	25.72	26.87	1604.15	1658.96	1992.31	2067.51	2086.53	2108.61
acyl-CoA dehydrogenase, long chain	Acadl	100759026	65.22	67.00	69.88	77.06	84.67	85.42	3395.14	3504.58	3652.98	3936.85	4346.94	4385.47
acyl-CoA dehydrogenase, C-4 to C-12 straight chain	Acadm	100763159	10.62	10.65	11.52	11.88	13.65	13.41	592.44	605.75	633.46	671.01	762.78	752.41
acyl-CoA dehydrogenase, C-2 to C-3 short chain	Acads	100774097	9.53	8.52	10.34	8.03	5.59	5.77	543.07	490.46	589.99	451.98	324.99	329.94
acyl-CoA dehydrogenase, short/branched chain	Acadsb	100766828	14.36	14.63	16.93	19.86	21.28	20.28	1606.43	1622.35	1883.00	2177.61	2301.81	2218.91
acyl-CoA dehydrogenase, very long chain	Acadvl	103158536	11.66	12.28	13.97	15.04	15.22	13.84	837.77	883.92	1017.27	1065.05	1097.09	955.23
aggrecan	Acan	100764201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	Acap1	100765780	0.07	0.13	0.13	0.02	0.02	0.06	109.37	125.36	106.82	74.17	61.06	85.05

ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	Acap2	100760438	15.21	15.79	16.97	19.45	20.70	19.66	1453.76	1530.85	1645.77	1857.75	2022.36	1874.95
ArfGAP with coiled-coil, ankyrin repeat and PH domains 3	Acap3	100768652	5.55	5.57	4.37	3.85	4.99	5.27	702.57	721.05	558.94	516.88	653.08	659.88
acetyl-CoA acetyltransferase 1	Acat1	100770936	92.85	89.18	84.70	96.87	104.23	102.88	4050.62	3962.10	3707.63	4160.52	4457.69	4444.35
acetyl-CoA acetyltransferase 2	Acat2	100760000	18.82	20.24	23.80	24.80	23.55	22.64	995.76	1077.91	1286.80	1364.05	1244.05	1208.53
acyl-CoA binding domain containing 3	Acbd3	100773815	24.37	24.58	23.10	23.74	26.32	24.82	2123.67	2149.41	2038.26	2055.92	2263.52	2135.72
acyl-CoA binding domain containing 4	Acbd4	100759909	12.61	11.55	9.21	7.61	6.62	6.81	976.01	881.18	698.05	581.78	506.11	530.89
acyl-CoA binding domain containing 5	Acbd5	100771023	16.27	15.99	13.35	15.76	17.48	17.14	1766.69	1773.33	1480.57	1694.34	1854.70	1801.11
acyl-CoA binding domain containing 6	Acbd6	100750555	59.37	60.57	66.37	68.41	62.01	61.88	1546.42	1607.71	1737.68	1663.05	1571.11	1535.66
acyl-CoA binding domain containing 7	Acbd7	100752791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
1-aminocyclopropane-1-carboxylate synthase homolog (Arabidopsis)(non-functional)	Accs	100774985	0.03	0.00	0.02	0.07	0.00	0.02	1.52	0.00	1.24	3.48	2.07	0.93
adrenocortical dysplasia homolog (mouse)	Acd	100763518	47.22	46.60	56.33	50.48	43.77	50.43	1917.84	1948.11	2363.69	2073.31	1832.96	2053.47
angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	Ace	100772844	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
angiotensin I converting enzyme 2	Ace2	100772552	0.49	0.53	0.23	0.24	0.36	0.53	51.65	53.99	27.33	25.50	38.29	53.28
angiotensin I converting enzyme (peptidyl-dipeptidase A) 3	Ace3	100753209	0.00	0.02	0.00	0.00	0.00	0.02	0.00	1.83	4.97	2.32	4.14	2.80
alkaline ceramidase 1	Acer1	100773997	0.13	0.11	0.28	0.17	0.29	0.35	29.62	24.71	28.57	18.54	23.80	35.52
alkaline ceramidase 2	Acer2	100758912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alkaline ceramidase 3	Acer3	100766923	6.24	6.27	7.70	8.83	9.43	9.47	385.09	387.06	519.19	569.03	603.40	606.60
acetylcholinesterase (Yt blood group)	Ache	100770679	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
apoptotic chromatin condensation inducer 1	Acin1	100769875	44.68	45.58	55.66	54.30	53.25	54.58	6537.35	6731.90	8333.16	8085.78	7827.60	7997.97
atypical chemokine receptor 1 (Duffy blood group)	Ackr1	100757110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
atypical chemokine receptor 2	Ackr2	100766393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
atypical chemokine receptor 3	Ackr3	100774656	18.86	18.61	11.57	12.42	10.75	11.89	1030.69	1024.84	642.16	677.97	586.84	654.27
atypical chemokine receptor 4	Ackr4	100762778	0.43	0.33	0.48	0.30	0.46	0.58	16.71	13.73	19.87	15.07	20.70	23.37
ATP citrate lyase	Acly	100773325	221.56	195.94	257.90	272.44	260.31	269.19	8311.64	8433.86	10314.29	9321.19	8807.73	9065.36
aminocarboxymuconate semialdehyde decarboxylase	Acmsd	100771266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACN9 homolog (S. cerevisiae)	Acn9	100767267	27.05	27.39	34.73	36.06	36.46	30.84	297.74	301.96	398.71	399.83	436.76	352.37
aconitase 1, soluble	Aco1	100766024	7.96	8.11	9.12	8.95	9.32	9.86	905.37	940.65	1059.50	1034.92	1076.39	1127.21
aconitase 2, mitochondrial	Aco2	100759203	116.57	114.31	117.96	112.25	97.56	106.59	9657.54	9490.73	9811.24	9247.02	8054.26	8802.72
acyl-CoA thioesterase 11	Acot11	100752371	0.42	0.38	0.39	0.48	0.31	0.46	27.34	26.54	28.57	31.29	22.77	23.37
acyl-CoA thioesterase 12	Acot12	100752768	0.02	0.00	0.00	0.00	0.00	0.00	3.80	4.58	0.00	1.16	4.14	1.87
acyl-CoA thioesterase 13	Acot13	100758652	15.85	17.09	10.56	10.06	13.58	11.40	240.01	266.27	165.20	156.45	203.89	171.98
acyl-CoA thioesterase 4	Acot4	100773433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
acyl-CoA thioesterase 7	Acot7	100755154	62.54	57.47	51.01	42.00	30.49	31.13	2469.26	2301.31	2045.72	1631.76	1200.58	1232.83
acyl-CoA thioesterase 9	Acot9	100761882	32.93	34.71	31.05	34.57	40.41	40.08	1674.78	1798.96	1591.11	1759.24	2086.53	2035.71
acyl-CoA oxidase 1, palmitoyl	Acox1	100689199	9.56	10.37	11.26	14.10	15.18	14.00	975.25	1057.78	1150.17	1386.07	1477.96	1417.89
acyl-CoA oxidase 2, branched chain	Acox2	100766043	0.06	0.06	0.05	0.08	0.07	0.02	9.11	5.49	4.97	6.95	8.28	4.67

acyl-CoA oxidase 3, pristanoyl	Acox3	100767060	17.71	17.83	21.13	20.05	17.86	18.54	1542.62	1510.72	1849.47	1765.03	1632.17	1696.43
acyl-CoA oxidase-like	Acoxl	100772220	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.16	0.00	2.80
acid phosphatase 1, soluble	Acp1	100773599	102.13	102.03	101.33	106.86	100.09	103.69	3818.96	3812.94	3784.64	3935.69	3696.97	3827.47
acid phosphatase 2, lysosomal	Acp2	100756404	30.31	30.03	29.53	29.77	29.08	30.99	1646.68	1609.54	1634.59	1615.53	1547.30	1615.11
acid phosphatase 5, tartrate resistant	Acp5	100768228	14.23	13.15	15.68	14.10	12.01	11.81	675.99	617.65	744.01	645.52	541.30	550.52
acid phosphatase 6, lysophosphatidic	Acp6	100751531	13.04	11.58	13.17	11.83	10.95	11.50	663.84	600.26	671.97	613.07	553.72	595.38
acid phosphatase, prostate	Acpp	100763644	0.13	0.08	0.03	0.05	0.02	0.00	8.35	5.49	2.48	4.64	2.07	0.93
acid phosphatase, testicular	Acpt	100757346	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
acrosin	Acr	100754856	2.45	2.73	1.19	1.55	1.01	1.22	80.51	82.35	27.33	37.09	36.22	37.39
acrosin binding protein	Acrbp	100754463	0.24	0.20	0.19	0.30	0.10	0.11	19.75	16.47	14.91	25.50	16.56	15.89
acrosomal vesicle protein 1	Acrv1	100752850	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	1.03	0.93
acyl-CoA synthetase bubblegum family member 1	Acsbg1	100754767	0.00	0.03	0.06	0.01	0.01	0.06	6.84	8.24	8.69	6.95	13.45	15.89
acyl-CoA synthetase bubblegum family member 2	Acsbg2	100773126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA synthetase family member 2	Acsf2	100768417	4.45	4.59	2.92	2.69	2.80	2.70	311.41	324.84	209.91	183.11	199.75	182.26
acyl-CoA synthetase family member 3	Acsf3	100764604	9.22	8.81	12.66	11.34	10.10	11.25	629.66	614.90	886.85	805.45	685.16	758.95
acyl-CoA synthetase long-chain family member 1	Acsl1	100751492	7.97	7.94	7.48	7.81	7.94	7.55	899.29	893.07	850.83	869.19	888.02	836.53
acyl-CoA synthetase long-chain family member 3	Acsl3	100752583	4.93	5.22	7.91	8.48	9.28	8.52	426.86	464.84	690.60	728.96	808.32	732.78
acyl-CoA synthetase long-chain family member 4	Acsl4	100760496	26.92	28.16	29.57	31.50	32.45	31.97	3149.81	3333.47	3482.81	3701.59	3805.64	3811.58
acyl-CoA synthetase long-chain family member 5	Acsl5	100773264	163.67	164.91	188.97	201.29	187.56	191.14	14023.37	14157.40	16235.32	17029.17	15888.07	16139.88
acyl-CoA synthetase long-chain family member 6	Acsl6	100762894	1.94	1.85	1.03	1.10	1.72	1.70	351.67	341.31	202.46	220.19	320.85	319.66
acyl-CoA synthetase medium-chain family member 3	Acsm3	100751305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
acyl-CoA synthetase medium-chain family member 5	Acsm5	100755162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA synthetase short-chain family member 1	Acss1	100769754	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.92	0.00	0.00	0.00	0.93
acyl-CoA synthetase short-chain family member 2	Acss2	100752902	5.45	5.52	5.82	6.04	6.08	5.86	566.62	582.88	599.93	645.52	638.59	653.33
acyl-CoA synthetase short-chain family member 3	Acss3	100772576	0.10	0.04	0.05	0.03	0.00	0.00	6.84	3.66	3.73	2.32	0.00	0.00
actin, alpha 1, skeletal muscle	Acta1	100768972	0.13	0.21	0.07	0.23	0.15	0.16	4.56	11.90	8.69	11.59	8.28	7.48
actin, alpha 2, smooth muscle, aorta	Acta2	100758575	0.18	0.30	0.18	0.03	0.19	0.17	7.60	13.73	6.21	3.48	7.24	5.61
actin, beta	Actb	100689477	1016.39	1018.05	1063.28	923.58	709.29	780.80	44003.90	43970.11	47470.07	42200.91	35481.40	39057.98
actin, alpha, cardiac muscle 1	Actc1	100766388	0.25	0.29	0.00	0.00	0.00	0.00	10.63	12.81	0.00	0.00	0.00	0.00
actin, gamma 1	Actg1	100764022	1195.18	1116.64	1101.58	881.78	643.89	739.69	19495.85	18448.91	18283.52	14314.98	9534.29	11240.34
actin, gamma 2, smooth muscle, enteric	Actg2	100768744	0.07	0.11	0.15	0.11	0.10	0.03	25.82	36.60	21.12	23.18	30.01	32.71
actin-like 10	Actl10	103160901	0.26	0.15	0.47	0.13	0.19	0.27	14.43	9.15	27.33	10.43	16.56	19.63
actin-like 6A	Actl6a	100757342	34.90	35.16	35.54	37.88	36.84	34.48	1932.27	1929.81	1988.58	2057.08	2009.94	1936.64
actin-like 6B	Actl6b	100753067	0.11	0.03	0.11	0.11	0.04	0.03	9.87	8.24	8.69	11.59	5.17	5.61
actin-like 7A	Actl7a	100767459	0.02	0.03	0.00	0.00	0.03	0.00	0.76	0.92	1.24	0.00	1.03	0.00
actin-like 7B	Actl7b	100767172	0.00	0.00	0.00	0.04	0.03	0.03	0.00	1.83	0.00	1.16	1.03	0.93

actin-like 9	Actl9	100752462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
actinin, alpha 1	Actn1	100755831	57.65	55.27	52.34	46.38	37.94	42.03	5451.21	5170.85	4868.98	4303.07	3666.96	4007.86
actinin, alpha 2	Actn2	100765161	0.04	0.01	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
actinin, alpha 4	Actn4	100766890	27.28	27.66	25.10	20.69	15.60	17.12	1974.80	1960.92	1845.74	1491.53	1151.94	1265.54
actin-related protein 10 homolog (S. cerevisiae)	Actr10	100759261	46.28	46.26	44.03	46.81	55.32	54.19	2134.31	2177.78	2068.07	2139.37	2545.03	2451.64
ARP1 actin-related protein 1 homolog A, centractin alpha (yeast)	Actr1a	100750704	68.89	66.93	66.77	67.39	63.19	69.61	5224.11	5176.34	5127.33	5152.56	4845.81	5298.64
ARP1 actin-related protein 1 homolog B, centractin beta (yeast)	Actr1b	100768031	9.46	9.37	11.97	11.73	9.42	9.80	672.19	667.97	850.83	810.08	657.22	698.20
ARP2 actin-related protein 2 homolog (yeast)	Actr2	100752591	85.31	88.46	84.02	97.73	101.04	103.66	3183.99	3304.19	3231.91	3652.92	3859.46	3912.53
ARP3 actin-related protein 3 homolog (yeast)	Actr3	100759010	157.42	161.81	158.76	167.14	174.97	170.43	11599.68	12049.16	11896.71	12348.29	12835.90	12444.19
ARP5 actin-related protein 5 homolog (yeast)	Actr5	100765489	20.22	20.94	18.90	18.09	17.68	18.30	1256.28	1306.67	1165.08	1110.25	1139.52	1187.03
ARP6 actin-related protein 6 homolog (yeast)	Actr6	100762739	17.70	19.08	18.51	18.96	22.05	21.78	1015.50	1096.21	1074.41	1082.43	1268.89	1259.93
ARP8 actin-related protein 8 homolog (yeast)	Actr8	100771927	13.87	12.44	13.97	15.04	15.85	15.10	882.58	810.72	880.64	958.43	991.52	942.15
actin-related protein T1	Actrt1	100772817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein T3	Actrt3	100768343	0.55	0.53	0.53	0.43	0.50	0.45	46.33	45.75	44.72	37.09	41.40	36.45
activin A receptor, type I	Acvr1	100758565	17.28	17.75	18.76	19.86	20.77	19.87	1328.43	1369.81	1419.71	1507.75	1563.86	1504.82
activin A receptor, type IB	Acvr1b	100764812	14.35	11.99	10.75	13.11	10.10	10.77	568.14	489.54	435.97	513.40	408.82	445.84
activin A receptor, type IC	Acvr1c	100756930	0.00	0.00	0.04	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
activin A receptor, type IIA	Acvr2a	100774605	3.02	2.55	2.54	2.68	3.10	3.16	547.63	472.16	470.75	487.91	562.00	587.91
activin A receptor, type IIB	Acvr2b	100755103	1.86	1.68	1.33	1.12	0.71	0.72	110.89	100.65	79.49	55.63	34.15	32.71
activin A receptor type II-like 1	Acvrl1	100764896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aminoacylase 1	Acy1	100765707	26.54	27.69	33.85	29.83	23.54	26.27	1223.62	1267.32	1530.25	1274.81	1054.65	1136.56
aspartoacylase (aminocyclase) 3	Acy3	100763612	1.92	2.16	0.61	0.57	0.26	0.40	109.37	103.40	40.99	31.29	18.63	16.82
acylphosphatase 1, erythrocyte (common) type	Acyp1	100755378	24.50	23.84	11.97	14.61	14.92	15.07	328.88	330.33	177.62	194.70	187.33	195.35
acylphosphatase 2, muscle type	Acyp2	100758982	1.80	2.61	2.97	3.12	2.95	3.20	69.12	91.50	114.27	117.05	109.71	115.90
adenosine deaminase	Ada	100756254	16.94	17.78	18.08	18.44	16.56	17.97	1068.67	1149.28	1175.01	1183.26	1059.83	1158.06
adenosine deaminase domain containing 1 (testis-specific)	Adad1	100754029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosine deaminase domain containing 2	Adad2	100773843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosine deaminase-like	Adal	100755738	14.70	14.76	15.48	15.04	18.01	16.74	973.73	916.86	945.23	1012.90	1202.65	1154.32
ADAM metallopeptidase domain 10	Adam10	100772891	25.08	25.20	24.50	25.92	29.16	27.08	3252.35	3270.33	3204.58	3342.32	3762.18	3475.10
ADAM metallopeptidase domain 11	Adam11	100764563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase domain 12	Adam12	100759770	2.67	1.71	0.01	0.00	0.00	0.00	201.28	180.26	2.48	0.00	0.00	0.00
ADAM metallopeptidase domain 15	Adam15	100773702	29.81	27.52	36.50	32.82	26.37	30.08	2750.29	2599.61	3438.10	2971.47	2358.73	2709.61
ADAM metallopeptidase domain 17	Adam17	100684971	26.63	25.29	30.20	31.24	32.58	31.00	2578.64	2501.70	2953.68	3002.76	3215.70	3037.68
ADAM metallopeptidase domain 19	Adam19	100762809	28.46	27.79	39.19	39.96	34.99	36.67	3402.74	3406.67	4805.63	4876.73	4276.56	4388.27

ADAM metallopeptidase domain 2	Adam2	100756746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase domain 21	Adam21	100763081	0.01	0.02	0.00	0.00	0.02	0.00	0.76	0.92	0.00	0.00	1.03	0.00
ADAM metallopeptidase domain 22	Adam22	100751750	8.93	9.02	12.34	13.96	13.63	13.53	1860.87	1890.46	2599.69	2941.34	2853.46	2799.34
ADAM metallopeptidase domain 23	Adam23	100756536	12.72	13.39	17.75	19.36	20.78	20.27	2275.58	2423.92	3197.13	3462.85	3669.03	3558.29
ADAM metallopeptidase domain 28	Adam28	100773280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase domain 29	Adam29	100759070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase domain 30	Adam30	100771496	0.00	0.00	0.00	0.02	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
ADAM metallopeptidase domain 32	Adam32	100754956	0.00	0.01	0.00	0.02	0.01	0.00	0.00	0.92	1.24	1.16	1.03	0.00
ADAM metallopeptidase domain 33	Adam33	100773977	0.01	0.02	0.00	0.00	0.00	0.03	4.56	8.24	0.00	3.48	1.03	4.67
ADAM metallopeptidase domain 7	Adam7	100773564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase domain 8	Adam8	100770949	0.02	0.06	0.00	0.01	0.01	0.01	3.04	5.49	3.73	1.16	1.03	1.87
ADAM metallopeptidase domain 9	Adam9	100754662	48.41	48.30	42.77	44.65	50.49	48.47	4854.22	4861.57	4312.53	4486.18	5067.29	4903.28
ADAM-like, decysin 1	Adamdec1	100752574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 1	Adamts1	100761390	3.20	3.29	2.56	2.80	2.68	2.74	493.70	506.01	396.23	443.87	406.75	429.01
ADAM metallopeptidase with thrombospondin type 1 motif, 10	Adamts10	100752765	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	1.24	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 12	Adamts12	100772449	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 13	Adamts13	100770010	0.02	0.02	0.00	0.00	0.00	0.02	3.04	3.66	0.00	0.00	0.00	3.74
ADAM metallopeptidase with thrombospondin type 1 motif, 14	Adamts14	100768329	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 15	Adamts15	100754358	0.01	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	1.03	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 16	Adamts16	100761157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 17	Adamts17	100770235	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 18	Adamts18	100763192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 19	Adamts19	100773163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 2	Adamts2	100769264	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 20	Adamts20	100750834	0.01	0.03	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 3	Adamts3	100758325	0.30	0.26	0.58	0.75	0.78	0.74	51.65	43.01	104.34	127.48	129.37	126.18
ADAM metallopeptidase with thrombospondin type 1 motif, 4	Adamts4	100773045	0.43	0.42	0.36	0.16	0.25	0.34	58.48	62.22	53.41	27.81	42.43	56.08
ADAM metallopeptidase with thrombospondin type 1 motif, 5	Adamts5	100761876	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	3.48	0.00	0.00
ADAM metallopeptidase with thrombospondin type 1 motif, 6	Adamts6	100760416	4.51	4.47	6.78	7.92	8.51	7.99	988.92	999.22	1506.65	1739.54	1885.75	1750.64

ADAM metallopeptidase with thrombospondin type 1 motif, 7	Adamts 7	100756390	3.64	3.57	3.21	2.73	1.97	2.09	602.31	598.43	537.82	446.18	321.88	343.96
ADAM metallopeptidase with thrombospondin type 1 motif, 8	Adamts 8	100754641	0.00	0.00	0.00	0.00	0.00	0.01	2.28	0.00	1.24	1.16	0.00	1.87
ADAM metallopeptidase with thrombospondin type 1 motif, 9	Adamts 9	100768091	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ADAMTS-like 1	Adamtsl 1	100757121	0.06	0.08	0.03	0.02	0.01	0.01	9.11	10.98	4.97	3.48	2.07	0.93
ADAMTS-like 2	Adamtsl 2	100761699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADAMTS-like 4	Adamtsl 4	100763942	6.77	5.93	4.10	3.34	2.49	2.60	827.90	732.94	503.05	433.44	302.22	334.61
ADAMTS-like 5	Adamtsl 5	100767851	8.58	8.26	7.65	7.88	6.17	6.04	987.40	927.84	871.94	839.06	629.27	627.16
ArfGAP with dual PH domains 1	Adap1	100770927	0.03	0.05	0.00	0.02	0.00	0.02	2.28	3.66	1.24	2.32	1.03	1.87
ArfGAP with dual PH domains 2	Adap2	100772203	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
hydrogen peroxide-induced mRNA	Adapt15	100689050	1486.68	1471.03	737.25	734.48	715.60	681.23	31806.46	31223.69	15548.44	15209.66	15065.26	14363.07
adenosine deaminase, RNA-specific	Adar	100760578	11.28	10.78	11.78	12.38	11.61	12.24	1576.80	1513.47	1676.82	1734.90	1633.21	1742.22
adenosine deaminase, RNA-specific, B1	Adarb1	100755658	4.03	3.74	4.67	4.04	3.40	3.60	761.06	720.13	875.67	778.79	640.66	672.96
adenosine deaminase, RNA-specific, B2 (non-functional)	Adarb2	100759087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosine deaminase, tRNA-specific 1	Adat1	100767121	9.23	10.58	12.18	13.07	11.15	10.68	516.49	581.05	635.95	690.72	593.05	574.82
adenosine deaminase, tRNA-specific 2	Adat2	100759031	6.36	6.25	9.63	9.45	9.38	9.88	598.52	597.52	1130.30	1095.18	1090.88	1170.21
adenosine deaminase, tRNA-specific 3	Adat3	100769481	3.57	3.22	2.90	1.62	1.45	1.58	272.67	247.97	224.82	141.39	122.13	134.59
	Adc	100774865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aarF domain containing kinase 1	Adck1	100759124	2.67	2.56	2.18	1.71	1.56	1.72	176.97	169.28	144.08	110.10	99.36	114.96
aarF domain containing kinase 2	Adck2	100771195	14.37	14.28	15.79	14.34	13.45	13.81	883.34	885.75	978.76	864.55	832.13	869.24
aarF domain containing kinase 3	Adck3	100752533	1.75	1.67	0.98	1.41	0.55	0.82	135.20	126.27	77.01	103.14	43.47	68.23
aarF domain containing kinase 4	Adck4	100770066	3.07	2.90	3.63	3.30	1.46	1.67	152.67	131.76	186.31	150.66	79.69	104.68
aarF domain containing kinase 5	Adck5	100762357	13.52	13.06	14.53	12.66	9.67	9.82	865.87	878.43	994.91	841.38	625.13	634.64
adenylate cyclase 1 (brain)	Adcy1	100764561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenylate cyclase 10 (soluble)	Adcy10	100767272	0.02	0.00	0.03	0.01	0.00	0.00	5.32	0.92	3.73	3.48	1.03	0.00
adenylate cyclase 2 (brain)	Adcy2	100773811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenylate cyclase 3	Adcy3	100770498	0.13	0.02	0.05	0.02	0.08	0.10	12.15	9.15	6.21	6.95	14.49	18.69
adenylate cyclase 4	Adcy4	100768998	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
adenylate cyclase 5	Adcy5	100765958	0.00	0.00	0.00	0.01	0.00	0.00	2.28	4.58	0.00	1.16	2.07	1.87
adenylate cyclase 6	Adcy6	100768368	7.99	8.06	9.99	9.11	8.09	8.61	1383.12	1397.26	1752.58	1556.43	1392.06	1484.26
adenylate cyclase 7	Adcy7	100756132	8.06	7.88	5.41	5.28	5.15	6.15	1192.48	1134.64	821.02	799.65	701.72	849.61
adenylate cyclase 9	Adcy9	100751372	1.52	1.44	1.13	1.43	1.58	1.57	312.17	299.22	229.79	289.73	330.16	330.87
adenylate cyclase activating polypeptide 1 (pituitary)	Adcyap 1	100760233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenylate cyclase activating polypeptide 1 (pituitary) receptor type I	Adcyap 1r1	100772260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
adducin 1 (alpha)	Add1	100768168	59.46	57.58	58.95	62.95	68.74	71.01	6565.46	6418.05	6566.91	6747.23	6917.85	7212.85

adducin 2 (beta)	Add2	100753858	1.91	2.07	0.31	0.36	0.43	0.56	216.47	231.50	36.02	46.36	51.75	67.30
adducin 3 (gamma)	Add3	100754769	56.49	56.47	78.30	85.79	91.55	92.09	3661.74	3747.98	4789.49	5280.04	5680.00	5549.13
alcohol dehydrogenase 5 (class III), chi polypeptide	Adh5	100767929	83.54	79.88	77.69	78.69	77.10	80.45	3225.76	3116.60	2990.95	2994.65	2972.48	3066.65
alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide	Adh7	100759210	0.02	0.02	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
alcohol dehydrogenase, iron containing, 1	Adhfe1	100764101	0.42	0.40	0.30	0.44	0.33	0.37	44.05	37.52	27.33	45.20	36.22	37.39
acireductone dioxygenase 1	Adi1	100765075	23.64	23.95	17.36	16.62	16.33	14.17	415.47	423.66	327.91	294.37	296.01	270.12
adipogenin	Adig	100765200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adiponectin, C1Q and collagen domain containing	Adipoq	100763032	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
adiponectin receptor 1	Adipor1	100752505	82.22	86.63	73.50	77.83	80.56	80.17	4996.25	5260.53	4472.75	4686.67	4815.79	4814.48
adiponectin receptor 2	Adipor2	100752717	39.13	39.04	40.14	39.19	39.61	40.40	4300.51	4321.70	4475.24	4328.57	4358.33	4471.46
adenosine kinase	Adk	100736551	63.48	63.72	58.36	63.41	67.82	64.50	2665.22	2634.38	2388.53	2480.09	2658.88	2572.21
adrenomedullin	Adm	100760129	0.32	0.44	0.89	1.09	0.69	0.71	12.15	16.47	33.54	42.88	25.87	28.04
adrenomedullin 2	Adm2	100755992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
activity-dependent neuroprotector homeobox	Adnp	100757883	40.60	39.53	35.10	38.00	40.71	39.39	5652.49	5536.87	4903.76	5309.01	5659.31	5517.36
ADNP homeobox 2	Adnp2	100760580	11.42	11.04	11.01	11.22	9.39	10.59	1453.00	1413.73	1419.71	1450.97	1210.93	1384.25
adenosine A1 receptor	Adora1	100751346	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
adenosine A2a receptor	Adora2a	100762652	0.16	0.15	0.32	0.30	0.15	0.22	6.84	7.32	13.66	13.91	6.21	9.35
adenosine A2b receptor	Adora2b	100759954	0.42	0.36	0.18	0.13	0.14	0.09	30.38	23.79	13.66	11.59	10.35	7.48
adenosine A3 receptor	Adora3	100773958	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	2.07	0.93
ADP-dependent glucokinase	Adpgk	100754978	30.00	30.01	31.51	32.69	31.10	32.28	2098.61	2129.28	2220.85	2296.98	2187.96	2283.40
ADP-ribosylarginine hydrolase	Adprh	100761196	167.59	163.02	187.21	166.70	145.93	152.69	7580.96	7421.84	8557.98	7493.58	6564.92	6904.41
ADP-ribosylhydrolase like 1	Adprhl1	100757894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylhydrolase like 2	Adprhl2	100762798	29.72	27.27	31.15	26.55	17.59	21.47	1401.35	1280.13	1473.11	1247.00	814.53	995.42
ADP-ribose/CDP-alcohol diphosphatase, manganese-dependent	Adprm	100767531	3.32	3.54	4.02	4.16	5.12	3.91	132.16	135.42	168.92	166.88	195.61	153.29
adrenoceptor alpha 1A	Adra1a	100758859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenoceptor alpha 1B	Adra1b	103160164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenoceptor alpha 1D	Adra1d	100772819	0.01	0.02	0.00	0.00	0.01	0.00	3.04	4.58	0.00	0.00	1.03	2.80
adrenoceptor alpha 2A	Adra2a	100768369	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.93
adrenoceptor alpha 2B	Adra2b	100757384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenoceptor alpha 2C	Adra2c	103161652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenoceptor beta 2, surface	Adrb2	100758902	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenoceptor beta 3	Adrb3	100775030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenergic, beta, receptor kinase 1	Adrbk1	100762552	47.40	45.03	53.46	47.94	38.11	43.97	4728.13	4619.09	5562.06	4974.08	3992.98	4535.02
adhesion regulating molecule 1	Adrm1	100754801	152.16	151.58	128.45	98.93	85.23	88.75	5931.24	5857.13	4923.63	3706.23	3233.30	3416.22
adenylosuccinate lyase	Adsl	100689060	59.63	60.63	68.00	58.97	48.95	54.34	3185.51	3232.81	3577.21	3064.18	2583.33	2880.65
adenylosuccinate synthase	Adss	100767083	47.21	51.82	51.86	56.09	54.20	52.38	3225.76	3521.05	3531.25	3751.42	3686.62	3482.58
adenylosuccinate synthase like 1	Adssl1	100751825	0.76	0.45	0.89	0.81	0.54	0.36	34.94	21.96	40.99	34.77	22.77	16.82

androgen-dependent TFPI-regulating protein	Adtrp	100763412	0.00	0.00	0.08	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
AE binding protein 1	Aebp1	100762528	0.03	0.02	0.00	0.01	0.01	0.01	3.80	4.58	0.00	1.16	1.03	0.93
AE binding protein 2	Aebp2	100765454	50.92	51.59	42.69	45.14	46.38	44.64	3706.55	3718.70	3097.76	3335.37	3347.15	3336.77
apoptosis enhancing nuclease	Aen	100765585	48.13	49.88	29.76	26.68	20.80	24.10	3079.17	3164.19	1915.30	1709.41	1299.94	1530.99
amino-terminal enhancer of split	Aes	100769877	86.97	85.66	88.78	73.65	50.53	55.58	4194.18	4178.04	4351.03	3585.70	2537.79	2702.13
actin filament associated protein 1	Afap1	100767632	23.61	23.50	26.15	26.20	23.90	25.19	4521.54	4523.01	5060.26	5040.14	4570.50	4841.59
actin filament associated protein 1-like 1	Afap1l1	100759163	0.03	0.02	0.02	0.00	0.02	0.00	1.52	1.83	1.24	0.00	1.03	0.00
actin filament associated protein 1-like 2	Afap1l2	100771462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AF4/FMR2 family, member 1	Aff1	100751914	8.20	8.08	7.62	7.80	7.62	7.17	1014.74	1014.77	966.34	983.92	998.76	928.13
AF4/FMR2 family, member 2	Aff2	100756662	1.94	2.11	3.72	4.24	4.05	3.96	242.29	255.29	469.51	523.83	490.58	475.75
AF4/FMR2 family, member 3	Aff3	100758079	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
AF4/FMR2 family, member 4	Aff4	100756909	16.57	16.75	17.16	19.79	21.10	20.88	4605.09	4662.10	4799.42	5494.44	5822.83	5762.24
AFG3-like AAA ATPase 2	Afg3l2	100763687	19.89	20.26	20.28	20.39	19.75	19.57	1576.04	1602.22	1613.47	1599.31	1542.13	1531.92
afamin	Afm	100757632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylformamidase	Afmid	100773211	3.69	3.89	3.56	4.11	3.26	3.37	243.81	242.48	238.48	264.23	205.96	200.95
alpha-fetoprotein	Afp	100759078	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	2.32	0.00	0.00
aftiphilin	Aftph	100754955	42.36	42.05	42.16	47.20	45.55	43.79	3758.96	3795.56	3824.39	4213.83	4056.11	3929.35
aspartylglucosaminidase	Aga	100754017	219.21	213.29	216.99	220.98	239.83	235.98	7780.72	7678.05	7799.06	7793.74	8570.72	8245.66
ArfGAP with GTPase domain, ankyrin repeat and PH domain 1	Agap1	100770318	87.53	87.90	111.78	96.08	75.77	81.33	4614.20	4635.56	5902.40	5028.55	4072.67	4346.21
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	Agap2	100764978	0.04	0.02	0.02	0.00	0.01	0.00	6.08	7.32	2.48	2.32	3.10	0.93
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	Agap3	100769383	21.34	20.17	21.82	15.47	10.10	10.99	1655.80	1589.41	1747.62	1240.04	852.83	898.22
ATP/GTP binding protein-like 1	Agbl1	100750752	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP/GTP binding protein-like 2	Agbl2	100761623	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
ATP/GTP binding protein-like 3	Agbl3	100764584	1.65	1.79	1.63	1.55	2.31	1.94	268.12	281.83	269.53	279.30	377.77	332.74
ATP/GTP binding protein-like 4	Agbl4	100759283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP/GTP binding protein-like 5	Agbl5	100762486	4.28	4.64	4.52	4.75	4.61	4.62	528.64	582.88	583.78	601.48	565.10	555.19
advanced glycosylation end product-specific receptor	Ager	100757624	0.28	0.14	0.32	0.10	0.18	0.14	22.03	13.73	17.39	13.91	9.31	15.89
ArfGAP with FG repeats 1	Agfg1	100757749	49.48	47.89	48.53	51.96	50.10	49.46	4268.61	4220.13	4287.68	4560.35	4376.96	4317.24
ArfGAP with FG repeats 2	Agfg2	100755409	10.21	10.06	14.12	12.69	12.84	12.93	816.50	825.36	1137.75	1007.10	969.78	987.01
angiogenic factor with G patch and FHA domains 1	Aggf1	100757002	21.44	21.22	23.40	27.08	29.45	27.21	1830.49	1830.98	2048.20	2322.48	2507.77	2318.92
acylglycerol kinase	Agk	100771779	24.62	24.56	24.95	26.80	27.51	28.18	1528.19	1540.00	1566.27	1644.51	1732.57	1745.03
amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase	Agl	100772306	6.73	7.17	6.00	6.73	7.94	7.72	985.12	1071.50	870.70	982.76	1162.29	1113.19
agmatine ureohydrolase (agmatinase)	Agmat	100752066	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
alkylglycerol monooxygenase	Agmo	100752746	0.00	0.05	0.00	0.03	0.00	0.05	0.00	1.83	0.00	1.16	0.00	1.87
argonaute RISC catalytic component 1	Ago1	100768807	0.09	0.05	0.02	0.04	0.04	0.02	14.43	10.07	8.69	9.27	8.28	2.80
argonaute RISC catalytic component 2	Ago2	100760040	14.12	13.78	12.77	13.10	10.95	11.45	1477.30	1429.28	1321.58	1384.91	1152.97	1211.33
argonaute RISC catalytic component 3	Ago3	100769090	2.30	2.18	1.97	2.13	2.41	2.28	303.82	290.07	262.08	301.32	304.29	294.42

argonaute RISC catalytic component 4	Ago4	100762217	5.47	5.45	6.60	6.48	7.83	7.45	629.66	633.20	770.09	759.09	909.75	893.54
1-acylglycerol-3-phosphate O-acyltransferase 1	Agpat1	100758206	42.12	40.04	38.46	33.81	28.46	29.48	1753.02	1646.15	1526.52	1266.70	974.96	1058.05
	Agpat2	100754963	31.67	34.13	31.42	27.64	21.82	23.85	555.22	560.92	496.83	455.46	410.89	430.88
1-acylglycerol-3-phosphate O-acyltransferase 3	Agpat3	100763383	27.69	27.88	29.93	25.33	21.01	21.28	2691.81	2747.85	2925.11	2453.43	2029.61	2051.60
1-acylglycerol-3-phosphate O-acyltransferase 4	Agpat4	100761743	26.05	27.47	22.83	23.28	23.95	21.96	1331.47	1446.67	1206.07	1179.78	1249.23	1116.93
1-acylglycerol-3-phosphate O-acyltransferase 5	Agpat5	100757875	20.26	20.22	22.14	24.61	28.75	29.44	1677.82	1681.83	1842.01	2040.86	2371.15	2407.71
1-acylglycerol-3-phosphate O-acyltransferase 6	Agpat6	100751939	42.36	41.38	51.83	54.49	53.25	52.99	3952.64	3913.60	4913.70	5045.94	4893.42	4870.56
1-acylglycerol-3-phosphate O-acyltransferase 9	Agpat9	100758424	15.75	16.75	21.31	22.28	24.44	23.77	1325.40	1410.98	1798.54	1833.41	2010.98	1940.37
alkylglycerone phosphate synthase	Agps	100756809	12.43	12.62	14.80	16.57	18.19	17.70	1588.96	1665.36	1960.01	2172.97	2356.66	2272.18
anterior gradient 2	Agr2	100769015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anterior gradient 3	Agr3	100768729	0.08	0.00	0.00	0.00	0.11	0.00	1.52	1.83	0.00	0.00	1.03	0.00
agrin	Agrn	100765949	8.41	8.36	11.27	10.42	8.95	9.84	1862.39	1850.20	2460.57	2312.05	2108.27	2277.79
agouti related protein homolog (mouse)	Agrp	100762653	0.11	0.04	0.00	0.00	0.11	0.10	7.60	5.49	3.73	1.16	6.21	2.80
angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	Agt	100773858	0.02	0.04	0.14	0.13	0.10	0.11	3.04	2.75	9.94	9.27	8.28	7.48
ATP/GTP binding protein 1	Agtpbp1	100772683	6.13	6.08	6.14	6.86	6.94	6.55	776.25	786.93	763.88	877.30	860.07	823.44
angiotensin II receptor, type 1	Agtr1	100750798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
angiotensin II receptor, type 2	Agtr2	100750901	0.26	0.27	0.20	0.18	0.23	0.20	63.80	68.63	60.86	49.83	74.52	61.69
angiotensin II receptor-associated protein	Agtrap	100774061	7.60	7.30	6.50	5.30	3.90	4.03	221.79	210.46	192.52	152.98	115.92	119.64
alanine-glyoxylate aminotransferase	Agxt	100771278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alanine--glyoxylate aminotransferase 2	Agxt2	100759906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
AT hook containing transcription factor 1	Ahctf1	100768805	64.63	63.15	59.44	72.86	68.61	63.89	7499.69	7325.76	7158.15	8396.37	7857.62	7379.22
adenosylhomocysteinase	Ahcy	100750969	103.55	106.89	112.35	95.79	74.95	81.35	6131.00	6343.01	6684.91	5674.07	4424.57	4798.59
adenosylhomocysteinase-like 1	Ahcyl1	100767631	77.94	77.21	60.10	64.40	69.14	71.67	3875.17	3970.33	3023.24	3220.64	3439.26	3505.95
adenosylhomocysteinase-like 2	Ahcyl2	100754476	7.80	7.63	10.32	10.86	11.29	12.85	1038.29	1031.24	1404.80	1435.90	1531.78	1731.01
AT hook, DNA binding motif, containing 1	Ahdc1	100758977	2.77	2.34	2.19	1.34	0.86	1.05	431.42	366.93	341.57	216.72	137.65	175.72
Abelson helper integration site 1	Ahi1	100773665	9.02	8.61	12.85	13.87	17.02	15.67	1222.86	1179.48	1740.16	1871.66	2292.49	2118.90
AHNAK nucleoprotein	Ahnak	100753847	68.14	74.19	57.40	70.68	99.38	94.12	24885.54	27381.46	21183.79	26452.35	37183.95	35483.80
AHNAK nucleoprotein 2	Ahnak2	100752400	0.94	1.03	0.31	0.43	0.52	0.57	233.94	257.12	68.31	115.89	138.69	156.09
aryl hydrocarbon receptor	Ahr	100682538	19.40	18.78	19.07	21.83	20.37	20.26	1699.85	1655.30	1720.29	1962.05	1839.17	1786.15
AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast)	Ahsa1	100760684	198.79	197.74	213.38	206.70	188.77	197.44	7674.38	7788.77	8376.63	8009.30	7370.14	7567.09
AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	Ahsa2	100756374	36.99	38.23	39.20	37.75	40.13	37.83	775.49	771.37	799.90	740.55	777.27	776.71
alpha-2-HS-glycoprotein	Ahsg	100765165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha hemoglobin stabilizing protein	Ahsp	100770599	2.38	2.34	2.27	2.96	3.92	2.92	44.81	54.90	65.83	57.95	69.34	61.69
activation-induced cytidine deaminase	Aicda	100689250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

axin interactor, dorsalization associated	Aida	100755322	27.21	27.52	29.05	32.06	40.84	37.90	3200.70	3248.37	3423.19	3797.78	4794.06	4446.22
allograft inflammatory factor 1	Aif1	100764184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	1.03	1.87
allograft inflammatory factor 1-like	Aif1l	100752261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apoptosis-inducing factor, mitochondrion-associated, 1	Aifm1	100771367	52.48	50.94	51.69	55.05	55.31	53.85	3338.17	3274.91	3257.99	3428.09	3446.50	3390.98
apoptosis-inducing factor, mitochondrion-associated, 2	Aifm2	100763473	10.50	9.63	9.68	9.15	8.04	8.59	925.88	854.64	857.04	806.61	693.44	766.43
apoptosis-inducing factor, mitochondrion-associated, 3	Aifm3	100752310	0.07	0.05	0.10	0.21	0.09	0.15	7.60	3.66	8.69	17.38	10.35	14.95
androgen-induced 1	Aig1	100757869	13.53	13.56	12.14	13.81	15.33	14.42	405.59	421.83	371.38	403.30	463.67	428.08
absent in melanoma 1	Aim1	100774444	0.70	0.62	0.40	0.58	0.33	0.33	163.30	138.17	90.67	125.16	80.73	81.32
absent in melanoma 1-like	Aim1l	100767991	0.00	0.01	0.03	0.00	0.00	0.01	0.00	0.92	3.73	1.16	1.03	0.93
aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	Aimp1	100689238	188.26	188.75	193.21	203.23	206.10	201.34	2653.07	2734.12	2835.68	3041.01	2989.04	2915.23
aminoacyl tRNA synthetase complex-interacting multifunctional protein 2	Aimp2	100682533	50.60	48.13	48.21	42.01	36.73	36.91	1623.89	1577.52	1561.30	1325.80	1147.80	1161.79
aryl hydrocarbon receptor interacting protein	Aip	100759077	41.62	41.53	41.82	39.15	35.56	34.66	1456.80	1486.93	1504.17	1383.75	1281.31	1225.35
aryl hydrocarbon receptor interacting protein-like 1	Aipl1	100760409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
autoimmune regulator	Aire	100768045	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
adherens junctions associated protein 1	Ajap1	100762681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ajuba LIM protein	Ajuba	103158564	101.31	100.07	77.00	76.80	71.27	74.70	4140.25	4091.11	3159.87	3075.77	2848.28	3004.03
adenylate kinase 1	Ak1	100759346	0.13	0.17	0.23	0.24	0.16	0.18	8.35	11.90	14.91	15.07	11.38	12.15
adenylate kinase 2	Ak2	100756723	237.42	228.89	234.49	192.41	162.87	175.48	3341.97	3228.24	3236.88	2738.53	2393.92	2535.76
adenylate kinase 3	Ak3	100760312	77.46	83.14	79.94	81.36	82.64	83.21	5743.64	6216.74	5979.41	6051.88	6129.19	6186.58
adenylate kinase 4	Ak4	100755987	7.18	7.73	6.52	6.11	6.88	7.61	268.12	284.58	258.35	234.10	268.06	293.49
adenylate kinase 5	Ak5	100761703	0.05	0.07	0.02	0.04	0.02	0.00	3.80	3.66	1.24	1.16	1.03	1.87
adenylate kinase 6	Ak6	100768838	59.11	57.89	49.67	54.84	58.42	59.24	799.04	733.86	613.59	711.58	783.48	789.80
adenylate kinase 7	Ak7	100760489	0.01	0.00	0.04	0.04	0.05	0.02	0.76	1.83	2.48	2.32	3.10	0.93
adenylate kinase 8	Ak8	100767050	0.05	0.30	0.04	0.21	0.08	0.14	3.04	8.24	2.48	5.79	2.07	4.67
adenylate kinase 9	Ak9	100752880	0.02	0.01	0.01	0.00	0.01	0.00	3.80	0.92	2.48	1.16	3.10	0.93
A kinase (PRKA) anchor protein 1	Akap1	100760847	25.66	25.31	13.72	13.70	12.26	12.60	2735.10	2677.39	1465.66	1439.38	1296.84	1344.99
A kinase (PRKA) anchor protein 10	Akap10	100759380	6.43	6.17	7.24	7.94	8.37	7.88	586.36	583.79	675.70	738.23	765.89	721.57
A kinase (PRKA) anchor protein 11	Akap11	100769001	15.54	15.14	14.38	18.28	19.24	18.24	3168.04	3095.56	2987.22	3745.63	3918.46	3734.01
A kinase (PRKA) anchor protein 12	Akap12	100772605	67.95	70.68	140.59	171.84	209.32	199.21	11927.80	12439.88	24910.05	30293.01	36627.13	35215.55
A kinase (PRKA) anchor protein 13	Akap13	100768171	8.12	8.58	14.38	15.45	14.50	14.33	2813.33	2920.79	4592.00	5001.90	4734.03	4722.89
A kinase (PRKA) anchor protein 14	Akap14	100763759	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
A kinase (PRKA) anchor protein 17A	Akap17a	100769666	0.95	0.99	0.62	1.16	1.03	1.06	158.74	170.20	106.82	199.33	173.88	183.20
A kinase (PRKA) anchor protein 2	Akap2	100767422	23.07	22.45	19.59	20.65	21.30	19.53	3819.72	3826.67	3430.64	3737.52	4020.92	3617.17
A kinase (PRKA) anchor protein 3	Akap3	100773279	1.89	2.25	1.00	1.27	1.68	1.38	183.05	228.76	104.34	114.73	153.18	129.92
A kinase (PRKA) anchor protein 4	Akap4	100754812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A kinase (PRKA) anchor protein 5	Akap5	100768039	0.05	0.03	0.04	0.07	0.03	0.00	2.28	1.83	1.24	4.64	1.03	0.00

A kinase (PRKA) anchor protein 6	Akap6	100756287	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
A kinase (PRKA) anchor protein 7	Akap7	100757731	18.20	17.99	9.90	11.02	13.40	14.34	1039.81	1034.90	577.57	632.77	764.85	820.64
A kinase (PRKA) anchor protein 8	Akap8	100771696	24.76	25.12	25.09	25.97	23.25	24.34	2678.89	2745.10	2741.29	2819.65	2499.49	2624.55
A kinase (PRKA) anchor protein 8-like	Akap8l	100754234	15.49	14.92	15.58	15.91	14.61	14.75	966.89	980.92	1023.48	1032.60	935.63	936.54
A kinase (PRKA) anchor protein 9	Akap9	100767118	8.66	8.17	7.43	10.18	11.25	10.46	2864.22	2692.03	2458.09	3348.12	3675.24	3435.85
A kinase (PRKA) interacting protein 1	Akip1	100751192	29.02	30.23	26.06	26.51	32.25	29.73	785.36	806.14	701.78	672.17	829.02	736.52
akirin 1	Akirin1	100751284	43.39	41.98	37.64	40.67	41.73	41.46	2306.72	2237.26	1997.28	2144.00	2193.14	2205.82
akirin 2	Akirin2	100769005	48.70	49.90	48.27	49.37	53.31	51.63	1402.87	1445.75	1393.62	1413.88	1521.43	1457.15
AT-hook transcription factor	Akna	100774585	1.22	1.26	0.97	0.91	0.72	0.67	257.48	272.68	212.40	200.49	162.49	157.02
aldo-keto reductase family 1, member A1 (aldehyde reductase)	Akr1a1	100689106	422.36	386.11	393.29	381.33	345.33	394.16	16740.24	15636.09	15827.91	15159.83	13855.36	15491.22
aldo-keto reductase family 1, member B1 (aldose reductase)	Akr1b1	100751272	138.32	137.81	123.03	125.63	119.73	126.76	5456.53	5511.25	4947.23	4937.00	4719.54	4933.19
aldo-keto reductase family 1, member B8	Akr1b8	100689318	37.26	39.31	45.36	50.44	52.78	52.51	1323.12	1400.00	1568.76	1723.31	1779.14	1802.98
aldo-keto reductase family 1, member D1	Akr1d1	100770348	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.92	0.00	0.00	1.03	0.00
aldo-keto reductase family 1, member E2	Akr1e2	100750439	32.11	31.32	21.83	25.83	35.61	33.96	1343.62	1326.80	934.05	1036.07	1525.57	1465.56
v-akt murine thymoma viral oncogene homolog 1	Akt1	100769460	132.76	137.18	144.11	138.62	114.83	122.95	8865.34	9266.54	9788.89	9253.98	7706.51	8269.96
AKT1 substrate 1 (proline-rich)	Akt1s1	100768286	27.76	25.69	29.88	18.41	14.32	15.72	1816.82	1688.24	1986.10	1263.22	968.75	1090.76
v-akt murine thymoma viral oncogene homolog 2	Akt2	100768351	28.21	28.35	27.79	23.96	21.95	23.06	2428.25	2487.98	2446.91	2093.01	1892.99	1988.98
v-akt murine thymoma viral oncogene homolog 3	Akt3	100752454	20.42	20.98	25.44	24.18	26.41	27.33	1107.41	1160.26	1371.26	1310.74	1381.71	1437.52
AKT interacting protein	Aktip	100770507	52.18	55.59	49.65	55.67	57.75	56.54	2511.80	2681.05	2419.59	2680.58	2786.18	2717.08
aminolevulinate dehydratase	Alad	100752314	23.02	21.85	24.45	19.56	17.53	19.54	791.44	786.01	849.59	680.29	624.10	678.57
aminolevulinate, delta-, synthase 1	Alas1	100766370	10.34	11.25	14.13	12.72	10.93	11.80	637.25	700.00	862.01	774.16	670.67	733.72
aminolevulinate, delta-, synthase 2	Alas2	100753315	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	3.48	0.00	1.87
albumin	Alb	100768954	0.48	0.11	1.14	1.46	1.10	1.53	13.67	5.49	23.60	37.09	33.12	41.13
activated leukocyte cell adhesion molecule	Alcam	100774312	84.52	86.27	95.62	114.76	133.82	123.95	7575.64	7994.65	9237.40	11044.51	12869.02	11717.95
aldehyde dehydrogenase 16 family, member A1	Aldh16a1	100772664	35.48	33.35	37.75	24.01	14.65	16.36	2542.94	2396.47	2745.01	1736.06	1039.13	1158.06
aldehyde dehydrogenase 18 family, member A1	Aldh18a1	100755485	0.20	0.16	0.25	0.25	0.39	0.31	22.03	17.39	23.60	28.97	43.47	32.71
aldehyde dehydrogenase 1 family, member A2	Aldh1a2	100772304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde dehydrogenase 1 family, member A3	Aldh1a3	100768227	0.04	0.05	0.06	0.00	0.03	0.00	2.28	2.75	2.48	0.00	4.14	1.87
aldehyde dehydrogenase 1 family, member B1	Aldh1b1	100765516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde dehydrogenase 1 family, member L1	Aldh1l1	100762089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde dehydrogenase 1 family, member L2	Aldh1l2	100772371	0.06	0.03	0.05	0.01	0.00	0.00	5.32	4.58	7.45	1.16	0.00	0.00
aldehyde dehydrogenase 2 family (mitochondrial)	Aldh2	100772225	43.53	41.28	53.50	47.27	38.26	46.01	2235.32	2164.05	2818.30	2436.05	1997.52	2343.22
aldehyde dehydrogenase 3 family, member A1	Aldh3a1	100757371	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

aldehyde dehydrogenase 3 family, member A2	Aldh3a2	100757658	6.20	6.21	6.93	7.34	8.47	7.92	543.83	552.68	623.53	643.20	734.84	689.79
aldehyde dehydrogenase 3 family, member B2	Aldh3b2	100763332	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
aldehyde dehydrogenase 4 family, member A1	Aldh4a1	100764994	3.32	2.87	3.77	3.18	2.64	3.26	349.39	312.03	409.89	341.88	283.59	340.22
aldehyde dehydrogenase 5 family, member A1	Aldh5a1	100764462	4.91	4.64	6.09	6.81	6.14	6.15	268.88	270.85	345.30	375.49	363.28	341.15
aldehyde dehydrogenase 6 family, member A1	Aldh6a1	100754996	14.56	13.73	13.81	15.30	19.14	18.67	1023.10	993.73	999.88	1074.32	1353.76	1304.80
aldehyde dehydrogenase 7 family, member A1	Aldh7a1	100756509	23.13	22.93	22.75	24.83	21.76	24.55	1121.08	1152.03	1163.84	1224.98	1092.95	1151.51
aldehyde dehydrogenase 8 family, member A1	Aldh8a1	100751303	0.02	0.04	0.04	0.07	0.02	0.08	1.52	2.75	2.48	4.64	1.03	4.67
aldehyde dehydrogenase 9 family, member A1	Aldh9a1	100758951	15.64	15.22	16.60	16.28	18.00	18.70	952.46	936.08	1017.27	985.08	1091.91	1133.75
aldolase A, fructose-bisphosphate	Aldoa	100771717	396.34	383.35	414.28	405.99	371.26	405.71	16295.91	16087.20	17140.80	15732.34	14102.72	15277.18
aldolase B, fructose-bisphosphate	Aldob	100755179	0.00	0.00	0.07	0.07	0.06	0.00	0.76	0.00	2.48	2.32	2.07	0.00
aldolase C, fructose-bisphosphate	Aldoc	100760749	0.16	0.12	0.21	0.07	0.11	0.15	18.99	15.56	19.87	18.54	15.52	19.63
ALG1, chitobiosyldiphosphodolichol beta-mannosyltransferase	Alg1	100773731	5.84	6.33	5.30	5.37	4.35	4.85	518.01	551.77	449.64	457.77	360.18	380.41
ALG11, alpha-1,2-mannosyltransferase	Alg11	100771009	21.59	22.16	22.70	24.90	26.67	26.53	1085.38	1109.02	1163.84	1263.22	1334.10	1330.97
ALG12, alpha-1,6-mannosyltransferase	Alg12	100770096	20.92	21.58	26.72	27.13	25.03	26.20	1432.49	1486.01	1854.44	1838.05	1729.46	1798.30
ALG13, UDP-N-acetylglucosaminyltransferase subunit	Alg13	100754023	7.63	8.00	7.15	7.44	8.68	8.28	1103.61	1166.67	1060.74	1143.85	1300.98	1226.29
ALG14, UDP-N-acetylglucosaminyltransferase subunit	Alg14	100773644	21.70	21.40	18.04	18.74	15.22	17.58	335.72	323.92	276.99	288.57	240.12	283.20
ALG2, alpha-1,3/1,6-mannosyltransferase	Alg2	100768412	12.85	13.30	12.17	12.84	14.65	15.48	1102.09	1144.71	1053.29	1107.93	1250.26	1334.71
ALG3, alpha-1,3- mannosyltransferase	Alg3	100772003	19.08	18.63	20.94	18.64	14.18	16.56	780.05	785.10	868.22	788.07	606.50	678.57
ALG5, dolichyl-phosphate beta-glucosyltransferase	Alg5	100769679	23.52	23.64	21.31	27.78	28.66	24.48	833.97	858.30	770.09	997.83	1026.71	875.79
ALG6, alpha-1,3-glucosyltransferase	Alg6	100753783	6.43	6.93	6.08	6.64	9.19	7.97	518.01	561.83	496.83	535.42	729.67	641.18
ALG8, alpha-1,3-glucosyltransferase	Alg8	100766150	11.94	12.48	12.07	13.42	14.79	12.93	767.89	815.29	766.37	840.22	958.40	842.14
ALG9, alpha-1,2-mannosyltransferase	Alg9	100755062	20.36	19.98	20.17	22.74	23.98	22.68	2362.93	2397.39	2350.03	2606.41	2778.94	2710.54
anaplastic lymphoma receptor tyrosine kinase	Alk	100760366	0.04	0.04	0.01	0.01	0.01	0.02	9.11	11.90	3.73	2.32	2.07	2.80
alkB, alkylation repair homolog 1 (E. coli)	Alkbh1	100760177	16.39	16.27	16.56	17.94	18.54	18.44	1830.49	1820.00	1861.89	1999.14	2038.92	2047.86
alkB, alkylation repair homolog 2 (E. coli)	Alkbh2	100753724	19.58	20.87	16.79	14.83	10.29	11.97	483.07	512.42	421.07	345.36	247.36	278.53
alkB, alkylation repair homolog 3 (E. coli)	Alkbh3	100774403	37.50	38.73	39.66	39.62	36.97	38.19	1589.72	1658.96	1678.06	1636.39	1556.62	1601.09
alkB, alkylation repair homolog 4 (E. coli)	Alkbh4	100766685	7.63	8.04	10.77	9.96	9.13	11.00	415.47	425.49	576.33	538.90	512.32	594.45
alkB, alkylation repair homolog 5 (E. coli)	Alkbh5	100755624	4.38	4.53	5.22	5.80	5.96	5.11	143.55	149.15	182.59	194.70	193.54	162.63

alkB, alkylation repair homolog 6 (E. coli)	Alkbh6	100771885	28.35	23.91	30.84	27.15	21.52	19.93	354.70	309.28	387.53	327.97	255.64	260.77
alkB, alkylation repair homolog 7 (E. coli)	Alkbh7	100774290	16.53	15.50	15.19	12.06	10.90	12.92	270.40	248.89	258.35	190.06	160.42	191.61
alkB, alkylation repair homolog 8 (E. coli)	Alkbh8	100760738	17.13	16.87	15.53	18.03	20.53	19.16	1412.74	1422.88	1340.21	1532.09	1768.79	1654.37
allantoicase	Allc	100766149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alstrom syndrome 1	Alms1	103162359	4.40	4.03	4.36	5.64	5.75	5.12	1430.97	1293.86	1458.21	1834.57	1841.24	1693.62
arachidonate 12-lipoxygenase	Alox12	100764620	0.01	0.01	0.00	0.02	0.00	0.01	3.80	2.75	4.97	4.64	13.45	1.87
arachidonate 12-lipoxygenase, 12R type	Alox12b	100761707	0.05	0.02	0.00	0.00	0.00	0.02	3.04	0.92	0.00	0.00	0.00	0.93
arachidonate 15-lipoxygenase	Alox15	100764916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arachidonate 15-lipoxygenase, type B	Alox15b	100754473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arachidonate 5-lipoxygenase	Alox5	100772492	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
arachidonate 5-lipoxygenase-activating protein	Alox5ap	100760744	0.00	0.00	0.10	0.00	0.00	0.15	0.00	0.00	1.24	1.16	0.00	1.87
arachidonate lipoxygenase 3	Aloxe3	100754187	1.45	1.23	1.38	1.52	1.90	2.13	170.14	154.64	177.62	197.02	251.50	275.73
alpha-kinase 1	Alpk1	100755133	1.62	1.35	1.41	1.47	1.65	1.30	213.43	191.24	191.28	206.29	212.17	172.91
alpha-kinase 3	Alpk3	100751103	0.00	0.01	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
alkaline phosphatase, liver/bone/kidney	Alpl	100771587	0.04	0.02	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
amyotrophic lateral sclerosis 2 (juvenile)	Als2	100763641	10.66	10.58	11.05	11.36	11.63	11.87	2085.69	2112.81	2189.80	2265.69	2284.21	2292.74
ALS2 C-terminal like	Als2cl	100767195	5.99	6.02	5.75	5.36	7.00	6.74	922.84	953.46	880.64	817.04	1031.88	1036.55
amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11	Als2cr11	100759628	0.46	0.48	0.52	0.58	0.74	0.69	124.56	123.53	147.81	161.09	189.40	174.78
amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12	Als2cr12	100759917	0.07	0.06	0.04	0.00	0.03	0.03	6.08	3.66	1.24	2.32	3.10	1.87
ALX homeobox 1	Alx1	100759154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALX homeobox 3	Alx3	100770020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
ALX homeobox 4	Alx4	100750505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aly/REF export factor	Alyref	100756310	270.98	286.72	111.40	104.22	77.32	83.07	6439.37	6871.90	2660.55	2436.05	1853.66	1907.66
ameloblastin (enamel matrix protein)	Ambn	100773253	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
alpha-1-microglobulin/bikunin precursor	Ambp	100750686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
autophagy/beclin-1 regulator 1	Ambra1	100753101	9.45	9.40	9.82	9.29	8.09	8.29	1775.04	1766.93	1855.68	1737.22	1505.91	1524.45
adenosylmethionine decarboxylase 1	Amd1	100774596	65.00	65.37	77.97	80.30	91.64	86.02	5303.86	5448.11	6506.05	6712.46	7590.59	7274.53
amidohydrolase domain containing 1	Amdhd1	100754101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
amidohydrolase domain containing 2	Amdhd2	100771907	10.54	9.58	11.72	9.98	9.30	9.25	476.23	433.73	522.92	445.03	410.89	421.54
APC membrane recruitment protein 1	Amer1	100751609	6.10	6.67	7.01	6.76	7.04	7.59	912.97	1003.79	1059.50	1021.01	1052.58	1139.36
APC membrane recruitment protein 2	Amer2	100766392	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APC membrane recruitment protein 3	Amer3	100750361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
autocrine motility factor receptor, E3 ubiquitin protein ligase	Amfr	100762626	43.50	41.68	49.66	50.04	46.06	49.30	3812.89	3711.38	4469.03	4474.59	4080.95	4364.91
anti-Mullerian hormone	Amh	100759997	0.54	0.35	0.13	0.22	0.11	0.14	29.62	21.96	7.45	10.43	6.21	7.48

anti-Mullerian hormone receptor, type II	Amhr2	100772657	0.06	0.17	0.10	0.17	0.12	0.11	28.10	34.77	40.99	53.31	27.94	37.39
adhesion molecule, interacts with CXADR antigen 1	Amica1	100767539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adhesion molecule with Ig-like domain 1	Amigo1	100772963	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
adhesion molecule with Ig-like domain 2	Amigo2	100761994	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adhesion molecule with Ig-like domain 3	Amigo3	100761154	0.80	0.75	0.53	0.76	0.58	0.54	81.27	75.95	53.41	77.65	58.99	53.28
Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1	Ammecr1	100759636	3.75	4.15	4.30	5.71	5.19	5.03	218.75	225.10	245.93	310.59	294.97	284.14
AMMECR1-like	Ammecr1l	100754731	9.11	8.37	8.36	8.60	9.33	8.94	981.32	917.78	906.72	948.00	1042.23	1002.90
antagonist of mitotic exit network 1 homolog (S. cerevisiae)	Amn1	100761574	8.27	8.59	9.61	8.41	12.89	11.60	259.00	270.85	296.86	260.76	410.89	351.44
angiomotin	Amot	100769669	4.04	4.33	3.43	3.95	3.47	3.57	676.75	745.75	582.54	671.01	583.73	607.54
angiomotin like 1	Amotl1	100754241	70.84	71.14	78.60	78.67	73.34	76.94	17189.89	17422.24	19395.19	19249.66	17643.41	18672.83
angiomotin like 2	Amotl2	100771000	56.80	59.28	48.32	43.09	44.10	46.56	6762.18	7069.55	5791.85	5122.43	5200.81	5523.90
adenosine monophosphate deaminase 1	Ampd1	100757901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosine monophosphate deaminase 2	Ampd2	100774910	28.40	26.88	31.90	29.38	24.89	25.41	3041.95	2890.59	3480.33	3064.18	2511.91	2636.70
adenosine monophosphate deaminase 3	Ampd3	100758386	0.10	0.16	0.15	0.11	0.17	0.10	10.63	15.56	18.63	18.54	18.63	11.22
amphiphysin	Amph	100767913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aminomethyltransferase	Amt	100763091	3.61	3.55	3.27	4.14	5.53	4.90	254.45	257.12	240.96	296.68	381.91	339.29
amelotin	Amtn	100768466	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
archaelysin family metallopeptidase 1	Amz1	100761231	0.05	0.04	0.02	0.03	0.01	0.04	3.80	2.75	2.48	5.79	1.03	4.67
archaelysin family metallopeptidase 2	Amz2	100774378	21.08	21.96	21.23	21.54	25.11	25.03	835.49	897.65	825.99	798.50	960.47	956.17
anaphase promoting complex subunit 1	Anapc1	100770891	55.22	55.33	59.11	64.96	69.51	68.70	14131.99	14209.56	15244.13	16547.06	17619.61	17548.42
anaphase promoting complex subunit 10	Anapc10	100772439	27.38	27.75	26.37	30.27	34.80	33.71	537.75	574.64	522.92	594.53	716.21	668.29
anaphase promoting complex subunit 11	Anapc11	100767345	122.74	110.56	43.70	26.74	12.47	16.40	1506.17	1370.72	558.94	340.72	190.44	255.16
anaphase promoting complex subunit 13	Anapc13	100770713	65.14	73.56	34.15	35.54	29.99	33.82	652.44	737.52	335.36	336.09	290.83	339.29
anaphase promoting complex subunit 15	Anapc15	100774442	23.20	25.67	25.27	25.25	26.69	27.45	597.00	620.39	623.53	650.15	647.90	687.92
anaphase promoting complex subunit 16	Anapc16	100759455	18.46	17.27	14.60	14.55	12.94	15.51	903.09	850.07	726.62	711.58	627.20	758.95
anaphase promoting complex subunit 2	Anapc2	100774636	29.68	28.75	33.73	32.59	28.63	32.99	2378.88	2311.37	2718.93	2670.15	2363.91	2640.44
anaphase promoting complex subunit 4	Anapc4	100767504	29.08	30.15	30.91	34.03	37.65	32.78	2406.98	2470.59	2525.16	2765.18	3068.73	2692.78
anaphase promoting complex subunit 5	Anapc5	100766376	138.75	137.54	142.11	138.25	124.48	128.22	10183.14	10303.28	10741.57	10315.55	9340.75	9508.39
anaphase promoting complex subunit 7	Anapc7	100765036	27.35	27.21	28.37	29.51	26.48	28.39	1791.75	1798.04	1885.49	1926.12	1735.67	1860.93
angiogenin, ribonuclease, RNase A family, 5	Ang	100755402	6.03	7.36	6.49	8.67	10.47	10.00	56.97	65.88	57.14	57.95	84.87	73.84

angel homolog 1 (Drosophila)	Angel1	100761072	7.96	7.97	8.07	7.89	6.80	7.59	923.60	934.25	963.86	936.41	793.83	896.35
angel homolog 2 (Drosophila)	Angel2	100767019	30.73	30.82	30.37	34.06	35.17	32.32	1661.11	1670.85	1615.95	1809.07	1819.51	1738.49
angiopoietin 1	Angpt1	100774625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
angiopoietin 2	Angpt2	100756240	0.01	0.00	0.00	0.02	0.01	0.01	0.76	0.00	1.24	1.16	1.03	0.93
angiopoietin 4	Angpt4	100761260	0.11	0.01	0.04	0.00	0.02	0.00	8.35	0.92	2.48	0.00	1.03	0.00
angiopoietin-like 1	Angptl1	100773728	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
angiopoietin-like 2	Angptl2	100758488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
angiopoietin-like 3	Angptl3	100754950	0.00	0.00	0.00	0.00	0.03	0.00	1.52	0.00	1.24	2.32	6.21	0.00
angiopoietin-like 4	Angptl4	100754832	0.04	0.05	0.00	0.00	0.00	0.00	3.80	3.66	0.00	0.00	1.03	0.00
angiopoietin-like 5	Angptl5	100762578	0.02	0.06	0.00	0.03	0.05	0.04	1.52	2.75	0.00	1.16	3.10	1.87
angiopoietin-like 6	Angptl6	100772824	0.86	0.84	0.74	0.54	0.41	0.40	28.86	31.11	23.60	16.22	14.49	11.22
angiopoietin-like 7	Angptl7	100755713	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.24	0.00	0.00	1.87
anomalous homeobox	Anhx	100751696	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin 2, neuronal	Ank2	100757830	5.55	5.26	5.74	6.66	5.99	5.67	2560.41	2413.86	2670.49	3052.59	2746.85	2649.79
ankyrin 3, node of Ranvier (ankyrin G)	Ank3	100767295	1.38	1.29	1.25	1.36	1.40	1.30	741.31	719.22	674.45	757.93	742.09	714.09
ankyrin and armadillo repeat containing	Ankar	100767421	0.31	0.31	0.52	0.43	0.62	0.62	30.38	30.20	45.96	37.09	52.78	53.28
ankyrin repeat and death domain containing 1A	Ankdd1a	100754818	0.07	0.10	0.04	0.04	0.02	0.00	6.84	10.98	6.21	5.79	4.14	1.87
ankyrin repeat and death domain containing 1B	Ankdd1b	100773274	0.87	1.00	1.12	1.12	1.26	1.18	105.58	118.95	126.69	141.39	157.32	137.40
ankyrin repeat and EF-hand domain containing 1	Ankef1	100750817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin-repeat and fibronectin type III domain containing 1	Ankfn1	100764232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat and FYVE domain containing 1	Ankfy1	100757230	10.39	10.00	9.81	10.83	11.75	12.04	1548.70	1496.08	1471.87	1586.56	1709.80	1816.06
ANKH inorganic pyrophosphate transport regulator	Ankh	100771094	13.97	14.02	11.84	12.27	11.73	11.59	1323.12	1322.22	1148.93	1179.78	1124.00	1109.45
ankyrin repeat and KH domain containing 1	Ankhd1	100756474	4.60	4.43	4.64	5.29	5.23	4.99	1222.86	1196.86	1260.72	1412.72	1375.50	1335.64
ankyrin repeat and IBR domain containing 1	Ankib1	100759287	18.62	18.10	20.43	21.99	21.99	22.57	2930.30	2881.44	3255.51	3462.85	3476.52	3580.72
ankyrin repeat and kinase domain containing 1	Ankk1	100751636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat and LEM domain containing 1	Ankle1	100753605	9.82	9.20	7.65	7.31	6.06	6.23	968.41	904.97	767.61	712.74	589.94	608.47
ankyrin repeat and LEM domain containing 2	Ankle2	100750769	13.37	13.97	16.07	17.33	18.47	19.64	1631.49	1750.46	1984.85	2117.35	2260.41	2384.34
ankyrin repeat and MYND domain containing 1	Ankmy1	100751434	0.55	0.52	0.52	0.59	0.53	0.53	59.24	55.82	62.10	61.42	53.82	50.47
ankyrin repeat and MYND domain containing 2	Ankmy2	100758778	9.72	9.97	11.48	12.10	12.90	12.71	663.84	698.17	808.60	836.74	900.44	883.26
ankyrin repeat, family A (RFXANK-like), 2	Ankra2	100755782	6.09	7.18	6.83	7.74	8.21	8.01	422.30	485.88	480.69	529.63	607.54	600.99

ankyrin repeat domain 1 (cardiac muscle)	Ankrd1	100689447	29.89	32.90	5.25	6.07	10.66	9.50	1465.15	1596.73	286.92	330.29	594.08	528.09
ankyrin repeat domain 10	Ankrd10	100766146	13.70	12.54	11.36	12.37	11.50	10.83	1231.97	1154.77	1165.08	1249.32	1310.29	1257.13
ankyrin repeat domain 11	Ankrd11	100764009	44.01	41.83	41.78	45.83	40.75	41.00	11453.85	10898.05	10963.90	11914.86	10537.20	10706.64
ankyrin repeat domain 12	Ankrd12	100755296	11.13	10.79	10.83	12.64	13.74	12.90	2619.65	2563.92	2578.57	3007.40	3248.82	3057.30
ankyrin repeat domain 13A	Ankrd13a	100756344	19.42	20.51	22.98	24.03	24.73	24.44	2025.69	2127.45	2456.85	2476.61	2555.38	2534.82
ankyrin repeat domain 13B	Ankrd13b	100757903	0.60	0.62	0.28	0.28	0.20	0.26	45.57	45.75	23.60	22.02	14.49	19.63
ankyrin repeat domain 13C	Ankrd13c	100751847	32.58	32.20	34.83	36.48	40.24	40.73	1665.67	1667.19	1809.72	1869.34	2081.36	2065.62
ankyrin repeat domain 13 family, member D	Ankrd13d	100762256	0.17	0.12	0.14	0.04	0.06	0.12	16.71	15.56	19.87	12.75	6.21	20.56
ankyrin repeat domain 16	Ankrd16	100765375	2.65	2.69	2.50	2.17	2.30	2.24	183.05	198.56	187.56	154.14	171.81	181.33
ankyrin repeat domain 17	Ankrd17	100768373	24.81	24.38	23.95	26.97	25.54	23.96	6080.11	5983.40	5888.73	6530.51	6137.47	5874.40
ankyrin repeat domain 2 (stretch responsive muscle)	Ankrd2	100758530	0.03	0.03	0.00	0.04	0.00	0.00	3.04	1.83	0.00	1.16	1.03	2.80
ankyrin repeat domain 22	Ankrd22	100762241	0.03	0.03	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
ankyrin repeat domain 23	Ankrd23	100769457	1.78	1.72	1.84	2.16	1.98	1.81	133.68	123.53	131.66	154.14	141.79	127.12
ankyrin repeat domain 24	Ankrd24	100769301	0.02	0.04	0.08	0.01	0.01	0.07	4.56	6.41	7.45	2.32	5.17	6.54
ankyrin repeat domain 27 (VPS9 domain)	Ankrd27	100758465	6.25	5.65	7.32	7.47	7.02	7.84	786.12	743.01	952.68	959.59	889.05	978.60
ankyrin repeat domain 28	Ankrd28	100767224	13.56	13.18	15.47	19.95	21.66	20.69	1596.55	1602.22	1830.84	2374.63	2641.29	2522.67
ankyrin repeat domain 29	Ankrd29	100755582	0.40	0.21	0.24	0.14	0.10	0.16	39.50	31.11	22.36	19.70	10.35	14.95
ankyrin repeat domain 30A	Ankrd30a	100769687	4.27	4.31	4.94	6.01	7.09	6.20	738.27	726.54	839.65	1022.17	1200.58	1046.83
ankyrin repeat domain 31	Ankrd31	100757808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 32	Ankrd32	100753941	6.98	6.84	7.02	9.00	10.30	9.09	819.54	813.46	835.92	1032.60	1190.23	1063.65
ankyrin repeat domain 33	Ankrd33	100765182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 33B	Ankrd33b	100760181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 34A	Ankrd34a	100755248	1.04	1.20	2.77	1.73	1.40	1.54	69.12	76.86	161.47	88.08	62.10	79.45
ankyrin repeat domain 34B	Ankrd34b	100761769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 34C	Ankrd34c	100757468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 35	Ankrd35	100753898	0.12	0.12	0.04	0.06	0.05	0.02	16.71	11.90	7.45	5.79	6.21	1.87
ankyrin repeat domain 37	Ankrd37	100771039	3.33	3.61	4.34	5.05	4.49	4.04	60.00	64.05	79.49	86.92	81.76	68.23

ankyrin repeat domain 39	Ankrd39	100769174	8.09	8.50	6.29	5.54	3.84	5.46	134.44	133.59	100.61	84.60	73.48	87.86
ankyrin repeat domain 40	Ankrd40	100761647	47.98	49.62	29.33	28.65	27.91	26.48	2038.60	2111.90	1232.15	1211.07	1170.57	1150.58
ankyrin repeat domain 42	Ankrd42	100753052	1.62	1.35	1.78	1.70	2.28	2.24	129.88	111.63	144.08	135.59	193.54	186.00
ankyrin repeat domain 45	Ankrd45	100755441	0.00	0.00	0.00	0.00	0.06	0.00	0.76	0.92	2.48	2.32	3.10	0.00
ankyrin repeat domain 46	Ankrd46	100756375	13.09	13.06	16.98	15.46	14.62	14.81	796.00	786.93	1025.96	923.66	865.25	888.87
ankyrin repeat domain 49	Ankrd49	100750582	13.84	14.75	13.61	14.81	15.77	15.01	843.09	905.88	848.35	874.98	953.22	913.17
ankyrin repeat domain 50	Ankrd50	100756565	6.27	6.02	5.69	5.17	4.72	5.60	995.00	960.79	912.93	820.52	747.26	900.09
ankyrin repeat domain 52	Ankrd52	100751169	18.84	18.48	15.00	13.37	9.10	10.39	2505.72	2461.44	2066.83	1892.52	1347.55	1488.93
ankyrin repeat domain 53	Ankrd53	100757823	0.02	0.00	0.00	0.00	0.00	0.03	2.28	0.00	1.24	2.32	0.00	1.87
ankyrin repeat domain 54	Ankrd54	100756181	11.63	10.50	13.67	11.96	11.95	12.32	634.97	570.07	755.19	654.79	641.69	674.83
ankyrin repeat domain 55	Ankrd55	100766888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
ankyrin repeat domain 6	Ankrd6	100772602	0.03	0.00	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
ankyrin repeat domain 60	Ankrd60	100773959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 61	Ankrd61	100756204	0.97	0.84	0.87	1.02	0.96	1.09	64.56	51.24	58.38	64.90	71.41	71.03
ankyrin repeat domain 63	Ankrd63	100760434	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 65	Ankrd65	100773738	0.29	0.49	0.24	0.11	0.00	0.06	13.67	21.05	13.66	11.59	7.24	5.61
ankyrin repeat domain 66	Ankrd66	100771794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain 7	Ankrd7	100755680	0.00	0.00	0.00	0.06	0.00	0.05	0.00	0.00	0.00	1.16	0.00	0.93
ankyrin repeat domain 9	Ankrd9	100773105	1.95	1.67	1.86	0.81	0.45	0.60	79.75	65.88	74.53	34.77	21.73	30.84
ankyrin repeat and sterile alpha motif domain containing 1A	Anks1a	100755580	4.51	4.40	4.52	3.59	3.03	3.17	577.25	595.69	591.23	472.84	402.61	409.39
ankyrin repeat and sterile alpha motif domain containing 1B	Anks1b	100766915	0.11	0.03	0.00	0.00	0.00	0.00	3.80	0.92	0.00	0.00	0.00	0.00
ankyrin repeat and sterile alpha motif domain containing 3	Anks3	100772275	22.14	20.90	19.99	15.09	11.57	11.54	1775.80	1676.34	1618.44	1252.79	995.66	1009.44
ankyrin repeat and sterile alpha motif domain containing 4B	Anks4b	100770300	0.02	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.93
ankyrin repeat and sterile alpha motif domain containing 6	Anks6	100771869	3.05	3.05	3.03	2.45	1.48	1.94	310.65	317.52	332.88	270.03	198.72	237.41
ankyrin repeat and ubiquitin domain containing 1	Ankub1	100769801	0.08	0.06	0.05	0.12	0.04	0.02	10.63	3.66	2.48	10.43	5.17	4.67
ankyrin repeat and zinc finger domain containing 1	Ankzf1	100773729	10.09	10.45	11.77	12.57	10.11	9.98	881.07	928.76	1017.27	1106.77	910.79	872.98
anillin, actin binding protein	Anln	100768074	50.45	50.60	52.95	58.50	70.78	66.74	7418.42	7473.08	7828.87	8571.37	10314.67	9801.88
anoctamin 1, calcium activated chloride channel	Ano1	100774893	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.92	1.24	0.00	1.03	0.00
anoctamin 10	Ano10	100770142	19.38	21.31	37.39	39.74	36.64	36.95	1465.15	1581.18	2759.92	2908.89	2695.10	2732.04

anoctamin 2, calcium activated chloride channel	Ano2	100775014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anoctamin 3	Ano3	100760607	0.01	0.02	0.02	0.02	0.06	0.05	1.52	2.75	2.48	2.32	7.24	6.54
anoctamin 4	Ano4	100773499	0.01	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
anoctamin 5	Ano5	100774784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anoctamin 7	Ano7	100753794	0.02	0.03	0.00	0.00	0.00	0.00	2.28	2.75	0.00	2.32	0.00	0.00
anoctamin 8	Ano8	100751640	5.02	4.71	4.93	3.47	2.94	2.96	601.56	562.75	596.20	421.85	342.58	357.98
anoctamin 9	Ano9	100758985	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.92	2.48	1.16	1.03	0.00
acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	Anp32a	100758072	43.58	43.97	53.08	55.14	53.19	54.69	2681.93	2753.34	3315.13	3418.81	3245.72	3261.06
acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	Anp32b	100767552	495.07	537.16	591.93	576.74	550.27	581.12	15660.18	17081.85	18638.76	17783.63	17013.10	17859.67
acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	Anp32e	100751239	96.78	96.74	93.09	94.41	98.97	101.23	3106.52	3250.20	3108.94	3126.77	3362.67	3399.39
alanyl (membrane) aminopeptidase	Anpep	100751632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anthrax toxin receptor 1	Antxr1	100769395	0.43	0.24	0.00	0.00	0.00	0.00	29.62	18.30	0.00	0.00	0.00	0.00
anthrax toxin receptor 2	Antxr2	100689461	21.96	23.06	25.08	28.80	30.41	29.55	3718.70	3882.49	4269.05	4868.62	5086.96	4960.29
anthrax toxin receptor-like	Antxrl	100759372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
annexin A1	Anxa1	100768079	384.40	376.49	386.80	451.25	541.01	541.30	16982.54	17209.04	17549.44	20037.72	24064.47	23298.51
annexin A10	Anxa10	100761636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
annexin A11	Anxa11	100752736	32.32	31.80	33.16	32.07	28.76	29.17	2198.11	2172.29	2269.29	2186.88	1948.88	2006.74
annexin A2	Anxa2	100760539	892.56	839.44	834.47	891.22	1008.07	1071.97	18603.39	18025.25	17427.72	18037.43	20887.06	21839.49
annexin A3	Anxa3	100762572	3.69	4.23	5.05	5.23	5.09	4.15	189.13	215.95	242.21	246.85	248.40	206.56
annexin A4	Anxa4	100771507	49.80	47.53	46.77	50.70	56.66	61.17	2902.96	2848.50	2787.24	2954.09	3275.73	3535.86
annexin A5	Anxa5	100759361	101.59	105.26	103.49	105.02	108.82	111.33	4690.91	4914.65	4785.76	4713.33	4976.21	5018.24
annexin A6	Anxa6	100759027	37.20	36.85	34.11	37.48	41.62	42.15	3150.57	3245.62	3030.69	3265.84	3613.14	3584.46
annexin A7	Anxa7	100763423	56.60	59.92	59.58	63.87	72.24	71.18	2914.35	3095.56	3056.78	3279.74	3699.04	3605.02
annexin A9	Anxa9	100766282	0.40	0.39	0.37	0.40	0.19	0.21	31.14	34.77	29.81	31.29	15.52	14.95
acyloxyacyl hydrolase (neutrophil)	Aoah	100768833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
amine oxidase, copper containing 2 (retina-specific)	Aoc2	100762635	0.28	0.28	0.27	0.35	0.35	0.34	33.42	32.94	28.57	44.04	45.54	44.86
adaptor-related protein complex 1 associated regulatory protein	Ap1ar	100755236	10.63	12.84	11.06	11.55	13.63	10.95	110.89	127.19	129.18	120.53	144.90	103.75
adaptor-related protein complex 1, beta 1 subunit	Ap1b1	100752826	126.68	132.31	151.17	147.08	171.19	186.15	7933.39	7892.16	8765.41	8770.71	8858.45	10058.92
adaptor-related protein complex 1, gamma 1 subunit	Ap1g1	100755260	14.12	14.20	13.54	15.30	16.05	15.08	2836.12	2867.72	2715.20	3010.87	3153.60	2957.29
adaptor-related protein complex 1, gamma 2 subunit	Ap1g2	100764053	5.93	6.16	7.91	7.74	7.18	7.91	532.44	563.66	674.45	665.22	646.87	709.41
adaptor-related protein complex 1, mu 1 subunit	Ap1m1	100759505	29.10	28.38	28.32	23.59	16.66	19.11	1656.56	1638.83	1645.77	1352.46	963.57	1086.09
adaptor-related protein complex 1, mu 2 subunit	Ap1m2	100758260	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
adaptor-related protein complex 1, sigma 1 subunit	Ap1s1	100759417	45.38	46.02	47.95	46.08	41.81	48.01	1670.99	1724.84	1792.33	1630.60	1484.17	1684.27
adaptor-related protein complex 1, sigma 2 subunit	Ap1s2	100768456	18.37	21.09	15.40	16.69	21.15	22.08	639.53	660.65	583.78	607.27	772.10	746.80
adaptor-related protein complex 1, sigma 3 subunit	Ap1s3	100764202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

adaptor-related protein complex 2, alpha 1 subunit	Ap2a1	100772481	54.47	54.58	58.18	46.70	33.54	37.72	5356.27	5349.29	5744.65	4561.51	3326.45	3681.66
adaptor-related protein complex 2, alpha 2 subunit	Ap2a2	100755406	53.26	52.06	53.66	51.23	43.39	45.96	5202.84	5100.40	5271.42	4965.97	4209.29	4477.07
adaptor-related protein complex 2, beta 1 subunit	Ap2b1	100750609	40.07	39.04	21.47	22.66	23.40	25.22	6192.52	6105.10	3398.35	3600.76	3641.08	3890.10
adaptor-related protein complex 2, mu 1 subunit	Ap2m1	100773058	162.43	155.39	167.78	168.83	174.78	190.49	8967.88	8761.45	9442.34	9433.61	9788.90	10432.78
adaptor-related protein complex 2, sigma 1 subunit	Ap2s1	100764194	35.18	32.94	39.04	34.00	29.01	31.68	724.60	706.41	807.36	660.58	537.16	578.56
adaptor-related protein complex 3, beta 1 subunit	Ap3b1	100755352	13.48	14.10	14.35	14.56	17.81	17.41	2161.65	2286.67	2292.89	2294.66	2806.88	2756.34
adaptor-related protein complex 3, beta 2 subunit	Ap3b2	100759367	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.92	0.00	1.16	0.00	0.93
adaptor-related protein complex 3, delta 1 subunit	Ap3d1	100770344	36.10	34.16	39.61	39.32	34.54	37.59	5177.78	4953.08	5791.85	5643.94	4917.22	5332.29
adaptor-related protein complex 3, mu 1 subunit	Ap3m1	100689277	39.04	41.08	39.79	44.79	46.56	44.10	3663.26	3723.27	3589.63	4050.42	4419.39	4220.97
adaptor-related protein complex 3, mu 2 subunit	Ap3m2	100751069	0.02	0.03	0.01	0.00	0.01	0.02	1.52	0.92	1.24	1.16	1.03	0.93
adaptor-related protein complex 3, sigma 1 subunit	Ap3s1	100770551	24.78	24.52	25.52	26.27	31.58	29.50	858.28	865.62	905.48	910.91	1083.63	1022.53
adaptor-related protein complex 4, beta 1 subunit	Ap4b1	100759820	7.65	7.21	6.08	5.90	7.36	7.40	580.29	549.02	473.24	465.89	541.30	565.48
adaptor-related protein complex 4, epsilon 1 subunit	Ap4e1	100751812	2.64	2.41	2.40	3.00	3.30	3.08	365.34	345.88	320.46	429.96	462.64	416.86
adaptor-related protein complex 4, mu 1 subunit	Ap4m1	100774803	4.06	4.23	5.62	5.10	4.92	5.04	268.12	250.72	342.82	310.59	293.94	300.96
adaptor-related protein complex 4, sigma 1 subunit	Ap4s1	100763289	7.14	6.95	8.65	6.56	10.70	9.32	144.31	137.26	192.52	141.39	215.28	196.28
adaptor-related protein complex 5, beta 1 subunit	Ap5b1	100761023	14.12	13.18	13.12	9.30	6.15	6.80	1149.18	1082.48	1070.68	764.89	519.56	569.21
adaptor-related protein complex 5, sigma 1 subunit	Ap5s1	100765217	11.17	9.29	13.53	13.38	10.06	11.68	442.05	405.36	556.45	536.58	446.08	502.85
adaptor-related protein complex 5, zeta 1 subunit	Ap5z1	100760656	4.50	5.01	4.98	3.03	2.24	2.58	404.07	446.54	449.64	293.21	203.89	242.08
apoptotic peptidase activating factor 1	Apaf1	100758500	5.39	5.51	5.36	6.18	7.38	6.84	511.93	520.65	500.56	594.53	696.55	634.64
amyloid beta (A4) precursor protein-binding, family A, member 1	Apba1	100774931	2.16	2.49	2.69	3.00	3.02	3.12	359.26	419.09	437.21	505.29	500.93	530.89
amyloid beta (A4) precursor protein-binding, family A, member 2	Apba2	100763312	0.11	0.10	0.04	0.05	0.03	0.04	8.35	10.07	3.73	3.48	2.07	2.80
amyloid beta (A4) precursor protein-binding, family A, member 3	Apba3	100763507	4.39	4.23	4.59	1.72	1.01	1.26	325.84	329.41	319.22	129.80	75.55	94.40
amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)	Apbb1	100760848	21.80	22.71	24.92	21.24	15.48	17.52	1673.26	1767.84	1968.71	1661.89	1228.53	1344.06
amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	Apbb1ip	100773337	34.86	35.39	39.72	36.75	31.50	32.52	2240.64	2259.22	2576.09	2337.54	2024.43	2082.44
amyloid beta (A4) precursor protein-binding, family B, member 2	Apbb2	100755787	8.92	9.57	8.01	7.90	8.81	8.48	720.80	717.39	635.95	646.68	736.91	750.54
amyloid beta (A4) precursor protein-binding, family B, member 3	Apbb3	100756770	2.15	2.59	3.43	3.18	3.11	2.98	161.78	188.50	237.24	251.49	253.57	232.73
adenomatous polyposis coli	Apc	100750563	6.29	5.64	4.50	5.96	6.17	5.65	1690.73	1537.26	1224.70	1612.06	1659.08	1535.66
adenomatosis polyposis coli 2	Apc2	100767273	0.11	0.16	0.30	0.28	0.20	0.17	28.86	28.37	75.77	54.47	45.54	43.93

adenomatosis polyposis coli down-regulated 1	Apcdd1	100766679	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
amyloid P component, serum	Apcs	100772827	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acylaminoacyl-peptide hydrolase	Apeh	100761732	29.50	26.49	32.52	33.05	29.10	33.08	2214.06	2037.78	2532.62	2476.61	2189.00	2425.47
APEX nuclease (multifunctional DNA repair enzyme) 1	Apex1	100689281	186.07	188.85	198.23	188.51	178.20	190.17	6736.35	6895.69	7232.67	6572.23	6038.11	6493.15
APEX nuclease (apurinic/apyrimidinic endonuclease) 2	Apex2	100753797	11.62	11.21	12.70	13.39	12.10	12.48	625.10	613.99	695.57	718.53	661.36	678.57
APH1A gamma secretase subunit	Aph1a	100760965	46.12	44.71	48.84	48.60	47.70	50.31	1993.79	1920.66	1994.79	1749.97	1530.74	1552.49
APH1B gamma secretase subunit	Aph1b	100772143	1.97	2.14	2.06	2.16	2.56	2.34	146.59	161.96	154.02	162.25	196.65	177.59
apoptosis inhibitor 5	Api5	100758910	62.62	67.17	63.68	67.21	74.01	73.95	5884.91	6409.81	6070.08	6375.22	6966.49	6959.55
APAF1 interacting protein	Apip	100774834	32.55	32.46	24.91	25.38	28.89	27.42	821.82	822.62	635.95	647.84	731.74	682.31
aprataxin and PNKP like factor	Aplf	100765532	6.93	7.77	10.09	10.89	12.21	11.31	382.05	420.00	547.76	625.82	687.23	644.92
apelin	Apln	103161730	0.99	0.86	0.77	0.85	0.88	0.90	82.03	72.29	67.07	71.85	72.45	76.64
apelin receptor	Aplnr	100759527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
amyloid beta (A4) precursor-like protein 1	Aplp1	100773034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
amyloid beta (A4) precursor-like protein 2	Aplp2	100758329	121.84	119.79	116.49	113.88	117.52	121.36	12448.09	12374.91	12075.57	11598.47	11969.62	12233.89
adipocyte plasma membrane associated protein	Apmap	100765704	46.83	47.72	45.05	47.77	50.36	49.42	2994.10	3016.87	2895.30	3001.60	3156.71	3132.08
apolipoprotein A-I	Apoa1	100772590	0.04	0.00	0.00	0.13	0.00	0.10	0.76	0.92	0.00	4.64	2.07	3.74
apolipoprotein A-I binding protein	Apoa1bp	100762326	48.05	46.12	58.21	50.34	45.69	50.03	1591.23	1565.62	1946.35	1680.43	1496.59	1630.06
apolipoprotein A-II	Apoa2	100768641	1.63	1.88	0.86	1.01	1.03	1.09	47.85	52.16	33.54	41.72	36.22	42.06
apolipoprotein A-IV	Apoa4	100774995	0.04	0.02	0.02	0.02	0.00	0.02	3.80	0.92	6.21	1.16	0.00	0.93
apolipoprotein A-V	Apoa5	100772884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein B	Apob	100762698	0.00	0.01	0.00	0.00	0.00	0.00	1.52	4.58	1.24	0.00	0.00	0.93
apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	Apobec1	100760326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2	Apobec2	100756679	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 4 (putative)	Apobec4	100764761	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein B receptor	Apobr	100753181	0.01	0.04	0.00	0.00	0.02	0.02	0.76	4.58	0.00	0.00	2.07	1.87
apolipoprotein C-I	Apoc1	103159291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein C-II	Apoc2	100774395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
apolipoprotein C-III	Apoc3	100774705	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein C-IV	Apoc4	100774105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein D	Apod	100774049	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
apolipoprotein E	Apoe	100773810	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.83	1.24	0.00	1.03	0.00
apolipoprotein F	Apof	100775063	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
apolipoprotein H (beta-2-glycoprotein I)	Apoh	100762364	0.08	0.05	0.00	0.03	0.03	0.03	4.56	1.83	1.24	3.48	4.14	6.54
apolipoprotein L domain containing 1	Apold1	100773016	0.00	0.00	0.00	0.06	0.05	0.00	0.00	0.00	1.24	1.16	1.03	0.93
apolipoprotein M	Apom	100763606	1.11	1.28	1.13	1.76	1.20	1.50	51.65	52.16	53.41	81.12	61.06	56.08
apolipoprotein O	Apoo	100768153	37.72	38.35	33.53	33.73	41.88	37.02	1020.82	1074.25	889.33	915.55	1122.96	948.69
apolipoprotein O-like	Apool	100755508	12.86	13.16	12.38	13.00	14.05	12.74	468.64	499.61	459.57	477.47	515.42	461.73
apoptogenic 1, mitochondrial	Apopt1	100750367	28.28	28.29	31.05	32.57	33.11	29.81	637.25	638.69	700.54	719.69	746.23	679.50

amyloid beta (A4) precursor protein	App	100689222	283.16	284.96	285.22	273.55	241.21	248.67	27326.70	27549.83	27715.93	26161.46	22963.24	23846.23
amyloid beta precursor protein (cytoplasmic tail) binding protein 2	Appbp2	100764050	24.09	24.95	12.95	14.49	13.99	13.54	2654.59	2769.81	1484.29	1625.96	1527.64	1483.32
adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	Appl1	100751324	17.33	17.71	15.58	18.03	20.80	19.06	1253.24	1259.09	1140.24	1285.24	1467.61	1383.31
adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2	Appl2	100771802	7.05	8.03	6.39	7.57	9.12	8.19	634.22	712.81	593.72	695.35	812.46	744.93
adenine phosphoribosyltransferase	Aprt	100765665	185.07	179.16	148.68	107.79	74.02	84.34	4045.31	3926.41	3238.12	2287.71	1578.35	1803.91
aprataxin	Aptx	100774231	7.13	7.14	7.01	7.33	8.11	7.81	461.80	462.09	458.33	470.52	506.11	501.92
aquaporin 1 (Colton blood group)	Aqp1	100773231	1.09	1.20	0.87	1.28	1.49	1.43	73.68	83.27	57.14	84.60	98.32	93.47
aquaporin 10	Aqp10	100751558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
aquaporin 11	Aqp11	100768567	0.41	0.49	0.30	0.44	0.63	0.54	25.82	24.71	14.91	20.86	36.22	34.58
aquaporin 2 (collecting duct)	Aqp2	100773344	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aquaporin 3 (Gill blood group)	Aqp3	100758981	1.61	1.73	0.68	0.56	0.60	1.05	75.95	78.69	32.29	26.66	26.91	49.54
aquaporin 4	Aqp4	100770342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aquaporin 5	Aqp5	100773918	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
aquaporin 6, kidney specific	Aqp6	100750886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aquaporin 7	Aqp7	100760137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aquaporin 8	Aqp8	100762692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aquaporin 9	Aqp9	100772598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aquarius intron-binding spliceosomal factor	Aqr	100766095	26.56	29.18	27.79	30.73	32.43	30.48	3845.55	4244.84	4045.48	4399.26	4680.21	4370.52
androgen receptor	Ar	100752675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
v-raf murine sarcoma 3611 viral oncogene homolog	Araf	100751432	39.53	39.44	35.00	34.03	32.80	33.77	1179.56	1216.08	1112.91	1002.47	909.75	963.64
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	Arap1	100774696	9.82	9.62	11.88	9.35	7.91	8.51	1518.32	1491.50	1817.17	1434.74	1213.00	1304.80
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	Arap2	100751597	0.01	0.02	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3	Arap3	100752046	7.05	6.94	6.13	5.89	5.29	5.24	1270.71	1255.43	1105.46	1059.25	933.56	938.41
activity-regulated cytoskeleton-associated protein	Arc	100766738	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
archain 1	Arcn1	100758971	74.76	76.90	73.79	82.68	87.97	84.08	7457.92	7700.01	7409.05	8205.15	8712.51	8421.37
amphiregulin	Areg	100772017	0.47	0.25	0.00	0.00	0.00	0.00	21.27	11.90	0.00	0.00	0.00	0.00
apoptosis resistant E3 ubiquitin protein ligase 1	Arel1	100771045	19.24	18.05	21.02	22.34	24.03	23.87	2271.78	2170.46	2550.00	2709.55	2877.26	2913.37
ADP-ribosylation factor 1	Arf1	100757864	239.96	249.73	228.50	182.66	166.37	222.67	1455.28	1551.90	1384.93	1237.73	1136.41	1303.86
ADP-ribosylation factor 3	Arf3	100766631	68.38	66.63	72.21	69.66	69.20	74.39	1762.89	1774.25	1915.30	1812.55	1825.72	1982.43
ADP-ribosylation factor 4	Arf4	100769922	103.40	106.94	118.43	120.19	122.85	123.82	4496.47	4692.29	5186.95	5161.83	5316.72	5331.36
ADP-ribosylation factor 5	Arf5	100759676	53.87	50.51	55.03	39.86	37.81	38.44	1317.04	1272.81	1392.38	1066.21	1016.36	1038.42
ADP-ribosylation factor 6	Arf6	100774654	65.87	67.76	76.50	81.18	83.41	75.11	5917.57	6099.61	6927.12	7311.63	7457.08	6778.22
ADP-ribosylation factor GTPase activating protein 1	Arfgap1	100759225	50.21	48.00	49.69	43.77	36.51	39.85	4011.89	3878.83	3968.47	3508.05	2956.96	3224.61
ADP-ribosylation factor GTPase activating protein 2	Arfgap2	100755528	35.49	36.68	34.54	36.49	35.36	36.08	2362.93	2434.90	2330.15	2488.20	2428.08	2473.14
ADP-ribosylation factor GTPase activating protein 3	Arfgap3	100767017	14.43	14.47	15.14	16.22	16.99	19.02	1149.94	1168.50	1206.07	1295.67	1347.55	1486.12

ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)	Arfgef1	100750748	26.35	25.34	24.29	29.64	28.55	27.11	2590.79	2573.99	2500.32	2948.29	2910.38	2698.39
ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	Arfgef2	100773989	16.25	16.35	17.33	18.79	21.61	21.96	4325.58	4417.78	4705.02	5033.19	5712.09	5830.47
ADP-ribosylation factor interacting protein 1	Arfip1	100761181	18.75	19.13	20.07	21.16	25.07	24.96	1538.83	1586.67	1623.41	1679.27	1983.03	1969.35
ADP-ribosylation factor interacting protein 2	Arfip2	100760054	15.17	14.06	15.92	13.51	10.82	12.00	1468.19	1389.02	1541.43	1332.76	1056.72	1173.01
ADP-ribosylation factor related protein 1	Arfrp1	100762329	53.35	53.67	63.17	61.22	68.78	71.20	2432.04	2283.01	2685.39	2572.80	2801.71	2998.42
arginase 1	Arg1	100750727	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
arginase 2	Arg2	100760459	0.00	0.03	0.00	0.00	0.00	0.00	0.00	3.66	1.24	1.16	0.00	2.80
arginine and glutamate rich 1	Arglu1	100756104	79.20	80.21	78.53	78.99	85.50	91.93	2341.66	2424.84	2330.15	2462.70	2675.44	2791.86
Rho GTPase activating protein 1	Arhgap1	100754369	40.66	38.07	42.79	44.96	47.56	50.15	2642.44	2523.66	2870.46	2963.36	3128.76	3290.97
Rho GTPase activating protein 10	Arhgap10	100775038	11.33	11.34	13.32	13.90	13.99	14.19	1088.42	1132.81	1352.63	1399.98	1389.99	1404.81
Rho GTPase activating protein 11A	Arhgap11a	100757746	24.61	24.03	22.95	26.21	26.72	24.31	3109.55	3035.17	2906.48	3295.97	3341.97	3061.04
Rho GTPase activating protein 12	Arhgap12	100770897	12.59	11.51	12.55	13.74	15.59	14.61	1746.94	1608.63	1743.89	1919.17	2140.35	2005.80
Rho GTPase activating protein 15	Arhgap15	100765262	0.19	0.07	0.06	0.12	0.03	0.02	6.08	1.83	2.48	2.32	2.07	0.93
Rho GTPase activating protein 17	Arhgap17	100759183	7.37	6.97	6.15	6.61	6.63	6.74	750.42	738.43	654.58	713.89	702.76	707.54
Rho GTPase activating protein 18	Arhgap18	100774646	16.35	16.08	7.63	8.30	9.90	9.77	768.65	777.78	380.08	385.92	476.09	451.45
Rho GTPase activating protein 19	Arhgap19	100765788	12.20	12.56	12.49	12.97	15.18	15.92	1836.57	1895.03	1884.25	1955.10	2274.90	2400.23
Rho GTPase activating protein 20	Arhgap20	100753596	0.65	0.66	0.39	0.37	0.36	0.31	117.73	118.95	68.31	66.06	66.24	55.15
Rho GTPase activating protein 21	Arhgap21	100766620	30.32	29.02	30.90	36.63	34.92	32.94	6325.44	6091.38	6535.86	7667.41	7304.93	6910.01
Rho GTPase activating protein 22	Arhgap22	100771443	24.60	24.70	22.32	17.25	11.66	13.44	1958.09	1959.09	1799.78	1379.11	961.50	1092.63
Rho GTPase activating protein 23	Arhgap23	100755359	10.94	10.51	7.02	5.79	4.96	5.04	1882.90	1806.28	1193.65	973.49	844.55	874.85
Rho GTPase activating protein 24	Arhgap24	100761525	29.06	31.33	42.14	41.32	34.95	34.47	1877.58	2030.46	2712.72	2726.94	2380.47	2371.26
Rho GTPase activating protein 25	Arhgap25	100766511	23.36	20.66	13.14	15.01	14.36	14.72	2037.84	1844.71	1136.51	1291.04	1262.68	1331.90
Rho GTPase activating protein 26	Arhgap26	100765139	0.08	0.10	0.06	0.06	0.00	0.04	9.11	13.73	7.45	5.79	0.00	3.74
Rho GTPase activating protein 27	Arhgap27	100765871	0.12	0.16	0.06	0.07	0.07	0.03	18.23	24.71	9.94	11.59	13.45	5.61
Rho GTPase activating protein 28	Arhgap28	100765840	1.06	1.06	0.00	0.00	0.00	0.00	169.38	164.71	0.00	0.00	0.00	0.00
Rho GTPase activating protein 29	Arhgap29	100773090	18.12	18.11	13.12	15.47	14.75	14.74	2744.97	2804.58	2038.26	2376.94	2257.31	2216.10
Rho GTPase activating protein 30	Arhgap30	100765257	0.01	0.02	0.00	0.00	0.01	0.00	0.76	1.83	0.00	0.00	1.03	0.00

Rho GTPase activating protein 31	Arhgap31	100758592	13.76	13.87	12.28	13.78	13.54	13.41	3432.36	3474.38	3110.19	3452.42	3376.13	3382.57
Rho GTPase activating protein 32	Arhgap32	100767169	5.71	6.30	6.23	6.89	6.84	6.92	1678.58	1841.96	1823.38	1999.14	1978.89	2017.02
Rho GTPase activating protein 33	Arhgap33	100774198	1.03	0.91	0.75	0.49	0.61	0.65	83.55	82.35	74.53	61.42	44.50	55.15
Rho GTPase activating protein 35	Arhgap35	100752481	13.58	13.41	14.08	15.07	15.14	15.03	1981.64	1952.68	2066.83	2182.25	2176.58	2171.24
Rho GTPase activating protein 36	Arhgap36	100761307	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
Rho GTPase activating protein 39	Arhgap39	100759161	8.80	8.73	9.47	7.95	5.70	6.24	846.89	848.24	937.78	750.98	539.23	594.45
Rho GTPase activating protein 4	Arhgap4	100775066	0.03	0.04	0.06	0.07	0.08	0.07	3.04	6.41	7.45	5.79	6.21	6.54
Rho GTPase activating protein 40	Arhgap40	100760450	0.00	0.02	0.00	0.00	0.04	0.00	0.00	0.92	0.00	0.00	2.07	0.00
Rho GTPase activating protein 42	Arhgap42	100757941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rho GTPase activating protein 44	Arhgap44	100772129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	4.64	0.00	1.87
Rho GTPase activating protein 5	Arhgap5	100765474	11.75	11.60	10.54	12.94	14.25	12.30	2400.90	2377.26	2177.38	2665.52	2899.00	2526.41
Rho GTPase activating protein 6	Arhgap6	100763825	4.69	5.14	5.07	6.18	5.61	4.89	369.90	397.12	388.77	469.36	428.48	377.61
Rho GTPase activating protein 8	Arhgap8	100760345	2.52	4.39	6.29	3.30	2.83	2.88	48.61	51.24	75.77	81.12	60.03	50.47
Rho GTPase activating protein 9	Arhgap9	100756457	0.29	0.19	0.16	0.13	0.12	0.14	20.51	12.81	17.39	16.22	10.35	12.15
Rho GDP dissociation inhibitor (GDI) alpha	Arhgdia	100767064	396.74	366.40	152.06	122.44	69.32	79.03	20332.11	19062.89	7787.88	6112.14	3543.79	3936.83
Rho GDP dissociation inhibitor (GDI) beta	Arhgdib	100753905	0.04	0.05	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
Rho GDP dissociation inhibitor (GDI) gamma	Arhgdig	100757877	0.03	0.00	0.16	0.05	0.00	0.24	1.52	0.92	3.73	2.32	1.03	6.54
Rho guanine nucleotide exchange factor (GEF) 1	Arhgef1	100758784	15.70	14.26	16.47	12.87	7.76	8.64	1579.84	1479.61	1715.32	1315.37	843.51	913.17
Rho guanine nucleotide exchange factor (GEF) 10	Arhgef10	100757483	15.23	15.78	13.51	13.49	12.81	13.69	2580.15	2660.00	2330.15	2324.79	2186.93	2305.83
Rho guanine nucleotide exchange factor (GEF) 11	Arhgef11	100760875	6.12	6.25	6.34	6.03	5.86	6.28	1174.25	1213.33	1229.67	1149.65	1125.03	1199.18
Rho guanine nucleotide exchange factor (GEF) 12	Arhgef12	100765006	41.02	40.76	43.96	49.88	51.10	50.31	10066.17	10011.38	10832.24	12223.13	12411.56	12327.36
Rho guanine nucleotide exchange factor (GEF) 15	Arhgef15	100752685	0.19	0.19	0.06	0.01	0.02	0.03	23.55	21.05	6.21	1.16	2.07	3.74
Rho guanine nucleotide exchange factor (GEF) 16	Arhgef16	100768964	0.14	0.13	0.04	0.00	0.01	0.03	12.15	11.90	3.73	0.00	1.03	2.80
Rho guanine nucleotide exchange factor (GEF) 17	Arhgef17	100753083	5.46	5.18	4.90	4.01	2.86	3.53	1778.08	1647.06	1601.05	1284.08	919.07	1198.25
Rho/Rac guanine nucleotide exchange factor (GEF) 18	Arhgef18	100770929	10.94	10.39	12.58	11.73	10.39	10.75	1539.59	1462.22	1786.12	1664.21	1473.82	1522.58
Rho guanine nucleotide exchange factor (GEF) 19	Arhgef19	100752548	1.17	1.11	0.44	0.23	0.07	0.21	89.63	89.67	36.02	16.22	8.28	18.69
Rho/Rac guanine nucleotide exchange factor (GEF) 2	Arhgef2	100758849	37.51	37.42	38.75	36.68	33.60	34.37	4775.98	4801.18	5005.61	4670.45	4284.84	4413.51

Rho guanine nucleotide exchange factor (GEF) 25	Arhgef25	100758200	0.02	0.04	0.04	0.04	0.02	0.05	2.28	2.75	3.73	3.48	2.07	2.80
Rho guanine nucleotide exchange factor (GEF) 26	Arhgef26	100772368	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
Rho guanine nucleotide exchange factor (GEF) 28	Arhgef28	100752236	19.66	19.43	29.19	29.86	30.13	30.99	1958.85	1965.49	2938.78	2985.38	3036.65	3029.26
Rho guanine nucleotide exchange factor (GEF) 3	Arhgef3	100751908	0.03	0.01	0.00	0.03	0.00	0.01	2.28	0.92	0.00	2.32	0.00	0.93
Rho guanine nucleotide exchange factor (GEF) 33	Arhgef33	100757802	0.04	0.08	0.03	0.00	0.01	0.04	4.56	7.32	3.73	0.00	1.03	4.67
Rho guanine nucleotide exchange factor (GEF) 37	Arhgef37	100756858	0.30	0.15	0.04	0.07	0.09	0.05	26.58	18.30	2.48	5.79	6.21	6.54
Rho guanine nucleotide exchange factor (GEF) 39	Arhgef39	100773515	0.11	0.02	0.24	0.14	0.08	0.02	9.11	6.41	11.18	12.75	13.45	12.15
Rho guanine nucleotide exchange factor (GEF) 4	Arhgef4	100774841	2.18	2.16	2.80	2.17	2.19	1.62	161.02	163.79	180.10	146.02	142.83	109.36
Rho guanine nucleotide exchange factor (GEF) 40	Arhgef40	100758097	11.87	11.39	11.86	10.50	8.93	10.02	1665.67	1608.63	1678.06	1470.67	1249.23	1419.76
Rho guanine nucleotide exchange factor (GEF) 5	Arhgef5	100756445	21.37	20.39	28.16	29.02	29.83	29.58	3317.67	3155.95	4415.62	4501.24	4566.36	4594.84
Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	Arhgef6	100762795	13.31	13.33	14.47	15.44	14.79	15.26	1823.65	1889.54	2035.78	2153.27	2025.47	2081.51
Rho guanine nucleotide exchange factor (GEF) 7	Arhgef7	100766623	24.80	24.84	27.56	27.49	24.40	24.98	3302.48	3340.79	3651.74	3629.74	3189.83	3275.08
Cdc42 guanine nucleotide exchange factor (GEF) 9	Arhgef9	100768180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AT rich interactive domain 1A (SWI-like)	Arid1a	100771997	18.90	18.40	18.11	18.27	14.07	14.84	3442.99	3378.30	3390.90	3388.68	2600.92	2736.71
AT rich interactive domain 1B (SWI1-like)	Arid1b	100773316	9.50	9.09	9.78	9.22	8.05	7.65	1879.10	1795.30	1945.11	1835.73	1595.95	1544.07
AT rich interactive domain 2 (ARID, RFX-like)	Arid2	100754162	7.06	7.08	7.09	7.99	7.81	7.56	1526.67	1502.49	1532.74	1721.00	1650.80	1643.15
AT rich interactive domain 3A (BRIGHT-like)	Arid3a	100764162	2.10	2.13	1.43	0.98	0.98	0.82	144.31	140.00	99.37	67.22	68.31	57.95
AT rich interactive domain 3B (BRIGHT-like)	Arid3b	100751851	0.48	0.38	0.35	0.39	0.44	0.47	62.28	56.73	47.20	50.99	60.03	64.49
AT rich interactive domain 3C (BRIGHT-like)	Arid3c	100753126	0.03	0.00	0.00	0.00	0.05	0.00	6.84	3.66	0.00	1.16	3.10	0.93
AT rich interactive domain 4A (RBP1-like)	Arid4a	100760045	7.41	7.09	8.35	9.30	10.04	8.73	830.18	793.33	936.53	1019.85	1103.30	977.66
AT rich interactive domain 4B (RBP1-like)	Arid4b	100752333	7.07	6.90	7.47	8.37	9.26	8.33	1203.87	1180.39	1278.11	1413.88	1568.00	1410.42
AT rich interactive domain 5A (MRF1-like)	Arid5a	100773678	7.57	7.28	6.31	5.62	4.11	4.62	998.03	952.55	832.20	726.64	538.19	612.21
AT rich interactive domain 5B (MRF1-like)	Arid5b	100754803	21.39	21.15	29.86	32.32	29.96	29.77	3528.82	3556.74	4954.68	5482.85	4885.14	4881.78
ariadne RBR E3 ubiquitin protein ligase 1	Arih1	100755555	31.05	31.40	33.43	38.18	38.61	36.88	4309.63	4367.46	4680.18	5292.79	5327.07	5079.00
ariadne RBR E3 ubiquitin protein ligase 2	Arih2	100764705	24.06	23.08	26.64	28.19	27.82	28.60	1813.78	1739.48	2019.63	2042.02	1971.65	2027.30
ADP-ribosylation factor-like 1	Arl1	100751351	104.30	100.98	109.74	121.76	121.14	123.11	1799.35	1733.07	1892.94	2073.31	2031.68	2097.40
ADP-ribosylation factor-like 10	Arl10	100768218	33.63	32.60	35.02	34.85	34.10	36.10	2188.99	2130.20	2297.86	2298.14	2234.54	2367.52
ADP-ribosylation factor-like 11	Arl11	100764642	0.63	0.48	0.17	0.26	0.28	0.26	31.14	24.71	9.94	11.59	13.45	13.09
ADP-ribosylation factor-like 13A	Arl13a	100750956	0.09	0.08	0.14	0.07	0.06	0.08	9.87	7.32	12.42	8.11	13.45	7.48

ADP-ribosylation factor-like 13B	Arl13b	100768683	14.08	14.25	14.11	15.65	18.56	16.14	1342.87	1367.98	1353.87	1482.26	1750.16	1531.92
ADP-ribosylation factor-like 14	Arl14	100757028	0.00	0.00	0.00	0.12	0.16	0.10	0.00	0.00	0.00	2.32	4.14	1.87
ADP-ribosylation factor-like 14 effector protein	Arl14ep	100765495	61.89	63.45	62.66	63.09	65.65	64.72	4321.02	4511.12	4369.66	4351.74	4548.76	4505.11
ADP-ribosylation factor-like 14 effector protein-like	Arl14epl	100769406	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like 15	Arl15	100750883	10.22	10.16	9.06	11.12	11.28	11.09	375.97	394.38	349.03	442.71	428.48	419.67
ADP-ribosylation factor-like 16	Arl16	100765389	34.20	31.39	24.36	24.32	19.08	21.33	1076.27	1055.95	725.38	761.41	610.64	672.96
ADP-ribosylation factor-like 2	Arl2	100760039	74.79	73.06	76.75	57.74	47.46	50.82	1836.57	1840.13	1900.39	1382.59	1170.57	1221.61
ADP-ribosylation factor-like 2 binding protein	Arl2bp	100763207	66.94	64.89	65.12	67.17	73.33	73.59	3384.51	3275.82	3320.10	3372.46	3663.85	3691.01
ADP-ribosylation factor-like 3	Arl3	100757638	114.16	110.33	109.88	100.19	98.61	99.22	2757.13	2670.07	2634.47	2390.85	2339.07	2355.37
ADP-ribosylation factor-like 4A	Arl4a	100771484	8.35	7.85	4.55	4.09	4.48	4.99	310.65	288.24	162.71	155.30	158.35	185.06
ADP-ribosylation factor-like 4C	Arl4c	100772909	16.55	16.07	20.60	19.45	18.92	18.74	1654.28	1599.48	2080.50	1949.30	1866.08	1868.40
ADP-ribosylation factor-like 5A	Arl5a	100765602	27.64	27.49	30.81	36.23	36.07	34.15	4016.44	4004.19	4511.26	5255.70	5205.98	4973.38
ADP-ribosylation factor-like 5B	Arl5b	100773320	1.79	1.96	2.12	2.09	2.46	2.11	205.84	222.35	244.69	241.06	278.41	238.34
ADP-ribosylation factor-like 5C	Arl5c	100766973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like 6	Arl6	100773053	9.42	10.72	10.22	10.60	13.31	13.34	388.88	440.13	394.98	426.48	526.81	515.94
ADP-ribosylation-like factor 6 interacting protein 4	Arl6ip4	100772007	44.51	45.14	49.48	38.25	27.94	29.65	2119.11	2145.75	2384.81	1841.52	1372.39	1432.85
ADP-ribosylation-like factor 6 interacting protein 5	Arl6ip5	100756195	48.78	49.06	38.47	39.25	48.77	44.16	1738.59	1750.46	1379.96	1384.91	1713.94	1576.79
ADP-ribosylation-like factor 6 interacting protein 6	Arl6ip6	100774425	8.93	9.39	8.73	9.61	10.84	9.75	775.49	814.38	853.31	931.77	1117.79	1025.33
ADP-ribosylation factor-like 8A	Arl8a	100762890	33.73	32.61	38.90	36.74	32.64	32.64	1421.10	1397.26	1643.28	1571.50	1349.62	1389.85
ADP-ribosylation factor-like 8B	Arl8b	100765619	33.75	35.33	33.59	34.45	41.25	42.07	4305.07	4511.12	4307.56	4384.19	5217.37	5373.42
ADP-ribosylation factor-like 9	Arl9	100759276	11.45	11.76	16.13	20.02	17.24	17.84	550.67	564.58	781.27	964.22	836.27	860.83
armadillo repeat containing 1	Armc1	100772139	51.59	51.92	51.78	53.33	62.05	63.11	2336.34	2355.30	2440.70	2543.83	2767.55	2710.54
armadillo repeat containing 10	Armc10	100761091	33.64	35.53	32.07	33.93	40.21	37.99	1610.98	1719.35	1548.88	1615.53	1897.13	1797.37
armadillo repeat containing 12	Armc12	100760615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
armadillo repeat containing 2	Armc2	100751417	0.56	0.35	0.43	0.44	0.53	0.62	63.04	36.60	48.44	50.99	55.89	66.36
armadillo repeat containing 3	Armc3	100751830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
armadillo repeat containing 4	Armc4	100773009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
armadillo repeat containing 5	Armc5	100772037	10.43	10.01	9.14	6.83	4.09	4.23	949.42	897.65	842.13	618.86	388.12	392.56
armadillo repeat containing 6	Armc6	100752507	16.91	16.11	15.58	9.90	7.04	8.07	1093.74	1057.78	1045.84	702.31	529.91	642.12
armadillo repeat containing 7	Armc7	100770961	12.27	11.27	15.69	13.41	12.73	13.92	865.12	796.99	1084.34	952.63	875.60	978.60
armadillo repeat containing 8	Armc8	100768239	5.54	6.24	2.86	2.82	3.42	3.17	919.80	1008.37	449.64	438.07	548.54	504.72
armadillo repeat containing 9	Armc9	100754576	8.02	7.99	10.27	9.38	9.55	9.84	420.78	452.94	547.76	512.24	543.37	545.85
armadillo repeat containing, X-linked 1	Armcx1	100773690	11.41	12.86	16.42	15.50	15.82	16.04	661.56	725.62	934.05	874.98	905.61	920.65
armadillo repeat containing, X-linked 2	Armcx2	100765185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
armadillo repeat containing, X-linked 3	Armcx3	100765475	10.35	10.78	10.53	10.57	13.53	12.28	642.57	684.45	667.00	669.86	849.72	775.78
armadillo repeat containing, X-linked 4	Armcx4	100753309	0.03	0.03	0.05	0.04	0.06	0.03	7.60	7.32	11.18	9.27	12.42	7.48
armadillo repeat containing, X-linked 5	Armcx5	100769784	17.39	17.83	20.21	25.27	23.10	24.62	854.48	864.71	982.49	1098.66	1055.69	1046.83

aryl hydrocarbon receptor nuclear translocator	Arnt	100752106	20.97	20.61	20.72	21.88	20.96	21.39	3450.59	3476.21	3531.25	3648.28	3515.85	3551.74
aryl-hydrocarbon receptor nuclear translocator 2	Arnt2	100773566	1.30	1.30	1.49	1.31	2.65	2.69	192.16	180.26	207.43	188.90	374.67	387.89
aryl hydrocarbon receptor nuclear translocator-like	Arntl	100755141	14.35	13.50	13.83	13.91	15.06	15.70	738.27	707.32	710.47	712.74	767.96	786.06
aryl hydrocarbon receptor nuclear translocator-like 2	Arntl2	100758300	0.92	1.19	0.56	0.42	0.86	0.68	60.00	85.10	42.23	28.97	62.10	47.67
actin related protein 2/3 complex, subunit 1A, 41kDa	Arpc1a	100775083	67.91	67.80	69.76	67.22	60.10	62.38	3045.75	3108.37	3177.26	3050.28	2711.66	2781.58
actin related protein 2/3 complex, subunit 1B, 41kDa	Arpc1b	100774796	417.70	403.89	441.55	331.45	266.73	290.53	17663.84	17497.27	19126.90	14172.43	11443.84	12215.20
actin related protein 2/3 complex, subunit 2, 34kDa	Arpc2	100774430	223.04	223.72	234.44	254.28	264.33	258.61	8229.61	8346.02	8633.75	9063.91	9482.54	9251.36
actin related protein 2/3 complex, subunit 3, 21kDa	Arpc3	100764746	154.42	150.69	155.37	159.46	152.57	158.19	4005.81	3888.89	3995.79	4023.77	3850.15	4034.03
actin related protein 2/3 complex, subunit 4, 20kDa	Arpc4	100756023	75.16	72.21	81.50	69.04	65.78	74.13	3249.31	3123.01	3541.19	2930.91	2746.85	3111.52
actin related protein 2/3 complex, subunit 5, 16kDa	Arpc5	100766799	58.96	64.70	54.57	61.79	69.54	68.26	2922.71	3155.04	2740.04	3050.28	3436.15	3349.86
actin related protein 2/3 complex, subunit 5-like	Arpc5l	100751476	54.39	52.40	83.90	93.85	91.83	98.99	1139.31	1099.87	1745.13	1892.52	1852.63	1997.39
cAMP-regulated phosphoprotein, 19kDa	Arpp19	100765476	21.71	22.08	23.30	26.01	27.77	26.41	2315.84	2347.98	2510.26	2780.25	2953.85	2883.46
cAMP-regulated phosphoprotein, 21kDa	Arpp21	100769175	0.06	0.04	3.70	3.81	4.33	3.74	6.08	7.32	391.26	394.03	478.16	421.54
arrestin 3, retinal (X-arrestin)	Arr3	100770938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arrestin, beta 1	Arrb1	100754574	6.71	6.48	4.71	4.53	4.59	5.65	439.77	420.92	313.01	296.68	311.53	370.13
arrestin, beta 2	Arrb2	100750830	7.73	7.79	7.59	7.46	7.80	8.08	360.78	375.16	358.96	355.79	366.39	378.54
arrestin domain containing 1	Arrdc1	100754257	10.40	10.95	10.04	9.26	6.88	7.79	490.66	516.08	474.48	441.55	330.16	370.13
arrestin domain containing 2	Arrdc2	100771761	2.52	2.59	2.48	2.14	1.73	2.09	149.63	173.86	145.32	122.85	102.46	115.90
arrestin domain containing 3	Arrdc3	100755882	2.49	2.97	3.61	4.91	5.16	4.98	281.79	329.41	401.19	535.42	577.52	559.87
arrestin domain containing 4	Arrdc4	100770261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arrestin domain containing 5	Arrdc5	100769962	0.00	0.08	0.00	0.00	0.23	0.00	1.52	4.58	0.00	0.00	6.21	1.87
arylsulfatase A	Arsa	100754567	38.82	34.98	46.89	40.18	32.38	36.87	2397.11	2147.58	2926.36	2521.81	2152.77	2395.56
arylsulfatase B	Arsb	100759794	0.02	0.02	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
arylsulfatase E (chondrodysplasia punctata 1)	Arse	100773060	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
arylsulfatase G	Arsg	100751256	20.56	19.74	4.98	5.34	4.26	4.39	1244.13	1247.19	442.18	464.73	378.80	381.35
arylsulfatase family, member H	Arsh	100773352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylsulfatase family, member I	Arsi	100765546	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
arylsulfatase family, member J	Arsj	100752184	5.75	5.99	7.77	7.67	8.69	8.24	356.22	388.89	500.56	479.79	539.23	512.20
arylsulfatase family, member K	Arsk	100762898	7.86	9.00	9.62	9.44	11.10	11.61	328.88	326.67	335.36	339.56	431.59	405.65
ADP-ribosyltransferase 1	Art1	100759929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosyltransferase 3	Art3	100771336	0.30	0.22	0.04	0.04	0.06	0.09	10.63	8.24	2.48	2.32	2.07	3.74
ADP-ribosyltransferase 4 (Dombrock blood group)	Art4	100757103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosyltransferase 5	Art5	100759641	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.93
artemin	Artn	100755266	0.99	1.03	0.53	0.19	0.34	0.46	57.72	61.31	31.05	12.75	20.70	28.04
ARV1 homolog (S. cerevisiae)	Arv1	100773285	11.55	11.01	14.78	14.10	16.26	14.78	407.87	402.61	511.74	470.52	543.37	492.57

armadillo repeat gene deleted in velocardiofacial syndrome	Arvcf	100773799	2.27	2.16	2.29	1.74	1.61	1.65	499.02	564.58	626.01	542.37	518.53	549.59
aristaless related homeobox	Arx	100759833	0.02	0.05	0.03	0.00	0.03	0.03	3.04	4.58	4.97	2.32	4.14	4.67
arsenic (+3 oxidation state) methyltransferase	As3mt	100758973	0.03	0.06	0.14	0.05	0.02	0.17	1.52	2.75	6.21	2.32	1.03	7.48
N-acylsphingosine amidohydrolase (acid ceramidase) 1	Asah1	100771068	96.40	99.44	98.52	103.32	116.32	118.65	5226.39	5479.22	5470.15	5573.25	6312.38	6437.07
N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2	Asah2	100765841	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
ArfGAP with SH3 domain, ankyrin repeat and PH domain 2	Asap2	100759382	13.27	12.40	9.43	9.03	12.61	10.87	1374.01	1292.03	939.02	908.59	1195.41	1105.71
ArfGAP with SH3 domain, ankyrin repeat and PH domain 3	Asap3	100751283	1.04	1.16	0.35	0.37	0.25	0.32	131.40	146.41	48.44	48.67	32.08	40.19
ankyrin repeat and SOCS box containing 1	Asb1	100771136	15.38	15.72	13.03	12.97	12.96	11.61	662.32	670.72	562.67	584.10	583.73	570.15
ankyrin repeat and SOCS box containing 10	Asb10	100761357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
ankyrin repeat and SOCS box containing 11, E3 ubiquitin protein ligase	Asb11	100774006	0.05	0.03	0.04	0.04	0.07	0.06	2.28	0.92	2.48	2.32	4.14	3.74
ankyrin repeat and SOCS box containing 12	Asb12	100751313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ankyrin repeat and SOCS box containing 13	Asb13	100766461	3.94	3.98	3.58	3.34	3.28	3.50	202.04	213.20	185.07	188.90	176.98	178.52
ankyrin repeat and SOCS box containing 14	Asb14	100751033	0.34	0.43	0.33	0.47	0.62	0.47	84.31	96.08	89.43	124.00	143.86	122.44
ankyrin repeat and SOCS box containing 15	Asb15	100759425	0.72	0.86	0.60	0.54	0.70	0.52	97.22	109.80	64.59	64.90	95.22	75.71
ankyrin repeat and SOCS box containing 16	Asb16	100753821	0.00	0.00	0.00	0.00	0.00	0.05	0.76	0.92	0.00	0.00	1.03	2.80
ankyrin repeat and SOCS box containing 17	Asb17	100759666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat and SOCS box containing 18	Asb18	100768096	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat and SOCS box containing 2	Asb2	100764972	0.00	0.00	0.00	0.00	0.00	0.02	0.76	0.00	0.00	0.00	0.00	0.93
ankyrin repeat and SOCS box containing 3	Asb3	100773709	19.28	19.76	23.78	22.68	22.16	22.39	1314.76	1340.52	1598.57	1530.93	1499.70	1516.03
ankyrin repeat and SOCS box containing 4	Asb4	100763121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat and SOCS box containing 5	Asb5	100752543	0.39	0.47	0.17	0.18	0.46	0.45	32.66	36.60	8.69	10.43	35.19	28.97
ankyrin repeat and SOCS box containing 7	Asb7	100767938	6.88	6.10	7.22	7.53	8.00	7.70	339.51	306.54	351.51	346.52	373.63	366.39
ankyrin repeat and SOCS box containing 8	Asb8	100753972	22.17	21.68	24.99	25.14	27.24	28.02	1298.81	1277.39	1474.36	1467.19	1583.53	1648.76
ankyrin repeat and SOCS box containing 9	Asb9	100774675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
activating signal cointegrator 1 complex subunit 1	Ascc1	100759170	27.18	27.73	26.81	30.29	34.89	33.88	982.08	1012.03	973.80	1068.52	1241.98	1187.97
activating signal cointegrator 1 complex subunit 2	Ascc2	100775056	29.66	29.54	29.28	27.68	23.56	27.37	2400.90	2434.90	2433.25	2243.67	1919.90	2233.86
activating signal cointegrator 1 complex subunit 3	Ascc3	100762460	14.04	13.80	7.24	8.24	9.42	8.22	3037.40	2982.09	1553.85	1783.58	1972.68	1767.46

achaete-scute family bHLH transcription factor 1	Ascl1	100772145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
achaete-scute family bHLH transcription factor 2	Ascl2	100762061	1.31	1.21	1.10	0.90	0.86	0.99	87.35	85.10	73.28	57.95	56.92	65.43
achaete-scute family bHLH transcription factor 3	Ascl3	100751483	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.93
achaete-scute family bHLH transcription factor 5	Ascl5	103163069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anti-silencing function 1A histone chaperone	Asf1a	103163586	54.96	56.32	23.71	31.33	32.69	31.42	543.07	533.46	248.42	304.80	324.99	311.25
anti-silencing function 1B histone chaperone	Asf1b	100769479	25.95	24.69	30.76	29.22	27.20	27.29	1162.85	1117.26	1378.72	1301.47	1203.69	1221.61
asialoglycoprotein receptor 1	Asgr1	100763164	0.00	0.06	0.00	0.00	0.00	0.07	1.52	0.92	0.00	0.00	0.00	1.87
asialoglycoprotein receptor 2	Asgr2	100768020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ash1 (absent, small, or homeotic)-like (Drosophila)	Ash1l	100754103	12.20	11.14	10.72	13.02	13.81	13.20	4197.97	3860.53	3706.39	4471.11	4708.15	4564.93
ash2 (absent, small, or homeotic)-like (Drosophila)	Ash2l	100771359	61.17	61.13	67.85	71.28	76.18	75.03	4315.70	4313.47	4723.66	4877.89	5165.62	5129.47
acid-sensing (proton-gated) ion channel 1	Asic1	100751471	0.05	0.01	0.00	0.03	0.01	0.01	4.56	1.83	0.00	3.48	2.07	2.80
acid-sensing (proton-gated) ion channel 2	Asic2	100762972	8.03	7.86	7.61	7.62	5.64	5.97	569.65	577.39	539.07	514.56	391.22	418.73
acid-sensing (proton-gated) ion channel 3	Asic3	100763386	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
acid-sensing (proton-gated) ion channel family member 4	Asic4	100765570	0.00	0.00	0.00	0.00	0.00	0.02	3.04	2.75	3.73	2.32	2.07	4.67
acid-sensing (proton-gated) ion channel family member 5	Asic5	100768408	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
agouti signaling protein	Asip	100750676	0.06	0.05	0.10	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
argininosuccinate lyase	Asl	100756687	5.01	4.78	4.01	4.53	2.94	3.23	284.83	260.78	236.00	243.37	168.70	184.13
arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)	Asna1	100761936	123.91	120.19	139.04	135.74	113.51	116.82	4409.13	4259.48	4974.56	4795.61	3998.15	4168.63
asparagine synthetase (glutamine-hydrolyzing)	Asns	100760225	69.88	68.62	63.62	62.81	74.75	76.73	4504.07	4447.98	4090.19	3970.46	4699.87	4838.78
asparagine synthetase domain containing 1	Asnsd1	100765791	133.82	131.31	126.85	133.42	140.88	136.14	8004.78	7887.59	7613.99	7938.60	8409.26	8183.97
aspartoacylase	Aspa	100767695	0.13	0.00	0.00	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00	0.00
aspartate dehydrogenase domain containing	Aspdh	100755598	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	2.07	0.00
asparaginase	Aspg	100750655	6.51	5.91	6.12	4.81	4.14	4.24	540.03	486.80	508.01	398.67	353.97	352.37
aspartate beta-hydroxylase	Asph	100755768	17.80	18.28	20.58	22.18	20.42	19.49	1331.47	1378.96	1517.83	1636.39	1505.91	1445.00
aspartate beta-hydroxylase domain containing 1	Asphd1	100774801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
aspartate beta-hydroxylase domain containing 2	Asphd2	100773627	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	Aspm	100764564	7.98	7.43	5.42	6.82	7.24	6.48	2261.91	2125.62	1558.82	1951.62	2043.06	1845.04
asporin	Aspn	100754602	0.04	0.02	0.03	0.05	0.00	0.00	1.52	0.92	1.24	2.32	0.00	0.00
aspartic peptidase, retroviral-like 1	Asprv1	100773346	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alveolar soft part sarcoma chromosome region, candidate 1	Aspscr1	100768779	34.41	32.18	17.19	16.10	10.44	11.10	1926.19	1827.32	956.41	909.75	579.59	612.21
asparaginase like 1	Asrgl1	100754434	35.60	34.86	38.22	39.27	37.39	38.73	2199.63	2118.30	2418.34	2427.94	2259.38	2389.02
argininosuccinate synthase 1	Ass1	100762274	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

asteroid homolog 1 (Drosophila)	Aste1	100765786	1.77	1.66	1.78	1.87	2.29	2.07	230.14	215.03	238.48	250.33	288.76	269.18
astacin-like metallo-endopeptidase (M12 family)	Astl	100750643	0.30	0.16	0.00	0.07	0.16	0.06	16.71	12.81	2.48	2.32	7.24	6.54
astrotactin 1	Astn1	100753322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
astrotactin 2	Astn2	100750695	0.39	0.14	0.00	0.07	0.04	0.02	13.67	7.32	0.00	1.16	3.10	3.74
asunder spermatogenesis regulator	Asun	100757147	49.76	55.29	59.23	60.80	64.41	60.60	3755.16	4185.36	4447.91	4473.43	4788.88	4525.67
additional sex combs like 1 (Drosophila)	Asxl1	100761070	18.99	18.41	18.84	19.06	16.84	17.05	3871.37	3776.34	3890.22	3893.97	3418.56	3465.76
additional sex combs like 2 (Drosophila)	Asxl2	100756895	11.67	11.76	12.37	13.08	12.82	11.99	1565.41	1562.88	1673.09	1761.56	1689.10	1626.33
additional sex combs like 3 (Drosophila)	Asxl3	100759073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat, SAM and basic leucine zipper domain containing 1	Asz1	100754218	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
ATPase family, AAA domain containing 1	Atad1	100764591	57.06	59.24	63.24	67.02	74.00	69.66	4574.70	4730.72	5008.09	5288.15	5769.01	5545.40
ATPase family, AAA domain containing 2B	Atad2b	100763563	2.41	2.67	2.30	2.84	3.11	2.68	453.44	496.86	429.76	540.06	587.87	509.39
ATPase family, AAA domain containing 5	Atad5	100771634	2.99	3.03	3.34	4.10	4.77	4.40	507.37	509.67	577.57	698.83	796.94	735.59
alpha tubulin acetyltransferase 1	Atat1	100764669	4.65	4.72	6.78	4.69	5.26	4.46	251.41	248.89	392.50	272.35	291.87	268.25
ataxia, cerebellar, Cayman type	Atcay	100773040	0.00	0.03	0.04	0.08	0.00	0.00	0.00	0.92	1.24	2.32	0.00	0.00
arginyltransferase 1	Ate1	100774144	9.75	9.35	10.36	11.23	11.11	11.54	982.84	973.60	1068.19	1112.56	1113.65	1140.30
activating transcription factor 1	Atf1	100773050	49.18	47.04	44.35	47.60	45.34	47.91	1675.54	1627.84	1548.88	1612.06	1528.67	1641.28
activating transcription factor 2	Atf2	100754663	21.09	21.15	18.38	20.73	22.21	21.65	2462.43	2479.74	2161.23	2380.42	2589.54	2507.72
activating transcription factor 3	Atf3	100763246	27.23	27.20	27.76	23.45	16.23	19.26	1496.29	1500.65	1530.25	1294.51	882.84	1056.18
activating transcription factor 4	Atf4	100689386	587.20	628.62	604.02	576.97	554.62	511.16	19135.07	20059.37	18918.22	17818.39	16761.60	15842.65
activating transcription factor 5	Atf5	100769320	89.86	83.71	48.91	35.87	32.33	32.83	3725.54	3486.28	2039.51	1469.51	1321.68	1348.73
activating transcription factor 6	Atf6	100772173	83.97	83.95	75.93	82.75	73.37	75.16	7500.45	7499.61	6792.97	7282.65	6482.12	6625.87
activating transcription factor 6 beta	Atf6b	100767112	63.20	60.13	63.18	47.96	33.03	37.10	4534.45	4338.17	4558.46	3399.11	2326.65	2627.36
activating transcription factor 7	Atf7	100764874	10.94	10.62	10.08	11.08	9.93	11.59	722.32	714.64	691.84	725.48	676.88	767.36
activating transcription factor 7 interacting protein	Atf7ip	100753637	16.11	15.99	15.54	15.15	15.48	15.38	2537.62	2522.75	2481.69	2392.01	2440.50	2422.66
activating transcription factor 7 interacting protein 2	Atf7ip2	100767143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
autophagy related 10	Atg10	100773027	11.49	10.66	9.70	10.56	11.66	11.35	361.54	339.48	314.25	319.86	359.14	372.00
autophagy related 101	Atg101	100763923	50.56	46.16	47.77	39.44	25.90	29.80	1498.57	1389.02	1419.71	1151.97	761.75	885.13
autophagy related 12	Atg12	100760609	19.67	23.55	20.02	22.51	29.79	22.70	236.98	269.02	236.00	266.55	310.50	270.12
autophagy related 13	Atg13	100753698	34.28	32.61	35.28	37.87	33.52	36.63	3644.27	3500.00	3758.55	3992.48	3525.16	3877.94
autophagy related 14	Atg14	100753411	8.63	7.92	8.83	8.83	9.24	9.40	804.35	751.24	839.65	827.47	868.35	871.11
autophagy related 16-like 1 (S. cerevisiae)	Atg16l1	100771530	13.80	13.27	16.41	16.50	15.19	15.09	1108.17	1076.08	1332.76	1318.85	1208.86	1203.85
autophagy related 16-like 2 (S. cerevisiae)	Atg16l2	100751003	6.31	6.25	6.50	7.34	5.47	5.31	481.55	484.97	514.22	531.94	425.38	429.01
autophagy related 2A	Atg2a	100758391	6.35	5.84	6.25	5.38	3.59	3.88	1293.50	1221.57	1306.68	1102.13	759.68	807.55
autophagy related 2B	Atg2b	100760198	6.75	6.56	7.49	8.02	9.01	8.51	1512.24	1497.91	1717.81	1790.53	2013.05	1910.46
autophagy related 3	Atg3	100765208	56.22	56.38	56.33	60.64	62.87	62.70	1867.71	1925.23	1865.61	1993.34	2096.88	1982.43
autophagy related 4A, cysteine peptidase	Atg4a	100750721	10.17	10.41	8.52	9.50	11.88	11.35	661.56	695.43	582.54	625.82	799.01	754.28

autophagy related 4B, cysteine peptidase	Atg4b	100754964	28.51	27.32	26.71	25.46	23.56	26.17	2402.42	2291.24	2300.34	2135.89	1984.07	2195.54
autophagy related 4C, cysteine peptidase	Atg4c	100754372	12.59	12.69	14.98	16.92	16.15	16.27	999.55	1010.20	1194.89	1357.10	1286.49	1300.13
autophagy related 4D, cysteine peptidase	Atg4d	100758833	5.33	4.68	5.19	4.44	3.55	3.72	325.08	283.66	306.80	275.82	245.29	256.10
autophagy related 5	Atg5	100759159	27.96	27.39	29.41	30.48	34.02	33.22	1354.26	1321.31	1414.74	1438.22	1612.51	1567.44
autophagy related 9A	Atg9a	100774022	16.53	16.65	18.32	16.67	14.90	16.04	1892.01	1912.42	2120.24	1911.06	1706.69	1845.04
autophagy related 9B	Atg9b	100769671	3.60	3.35	2.53	2.46	1.95	1.89	315.97	303.79	228.54	221.35	185.26	170.11
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	Atic	100750895	188.25	185.15	173.43	167.47	151.94	164.55	14694.05	14624.07	13802.07	13085.36	11883.71	12709.64
atlastin GTPase 1	Atl1	100765875	1.69	1.64	1.65	2.12	2.06	1.86	144.31	142.75	139.11	170.36	168.70	152.35
atlastin GTPase 2	Atl2	100758956	18.59	19.37	17.91	19.96	21.73	20.85	1101.33	1158.43	1094.28	1189.05	1295.80	1235.63
atlastin GTPase 3	Atl3	100752365	13.94	13.50	13.54	15.03	16.20	15.82	2514.07	2456.87	2495.35	2752.43	2943.50	2878.78
ataxia telangiectasia mutated	Atm	100754226	21.45	21.44	27.92	34.71	35.48	33.31	4802.57	4809.42	6159.51	7656.98	7648.55	7146.48
ATM interactor	Atmin	103162505	10.26	10.91	11.66	12.63	11.52	11.92	781.57	843.66	903.00	982.76	885.95	932.80
atrophin 1	Atn1	100767627	26.19	26.38	24.42	18.10	14.34	14.65	4298.23	4307.98	3995.79	3005.08	2401.17	2445.10
atonal homolog 1 (Drosophila)	Atoh1	100769461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
atonal homolog 7 (Drosophila)	Atoh7	100763008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
atonal homolog 8 (Drosophila)	Atoh8	100751745	0.37	0.53	0.12	0.23	0.00	0.09	4.56	6.41	1.24	3.48	1.03	0.93
antioxidant 1 copper chaperone	Atox1	100760386	28.65	27.41	26.90	27.68	21.68	20.18	301.54	278.17	259.60	261.92	215.28	214.97
ATPase, class V, type 10A	Atp10a	100774607	48.46	46.62	46.51	48.88	56.99	57.50	7299.93	7012.82	7033.94	7346.39	8579.00	8667.19
ATPase, class V, type 10B	Atp10b	100767948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATPase, class V, type 10D	Atp10d	100755398	5.95	6.31	7.54	7.33	8.18	7.83	893.22	949.80	1136.51	1106.77	1237.84	1190.77
ATPase, class VI, type 11A	Atp11a	100761170	29.10	28.69	37.34	39.05	34.76	36.12	5909.97	5822.36	7739.44	8067.24	7169.35	7453.99
ATPase, class VI, type 11B	Atp11b	100773257	35.39	36.25	34.81	38.75	41.58	38.36	2155.57	2237.26	2150.05	2352.61	2558.49	2338.54
ATPase, class VI, type 11C	Atp11c	100756336	6.54	6.26	7.27	9.06	9.63	8.65	1102.09	1064.18	1249.54	1566.86	1637.35	1466.50
ATPase, H+/K+ transporting, nongastric, alpha polypeptide	Atp12a	100765522	0.15	0.14	0.01	0.04	0.05	0.01	17.47	19.22	2.48	4.64	7.24	0.93
ATPase type 13A1	Atp13a1	100762605	15.91	14.63	15.83	13.81	11.26	11.04	1900.37	1766.93	1902.88	1663.05	1322.71	1314.15
ATPase type 13A2	Atp13a2	100770673	7.98	7.53	8.14	6.17	4.05	4.49	940.31	891.24	978.76	737.07	472.99	518.74
ATPase type 13A3	Atp13a3	100769908	42.38	41.91	37.73	41.89	47.56	45.76	8283.53	8319.48	7472.39	8246.87	9263.13	8972.83
ATPase type 13A4	Atp13a4	100752452	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATPase, Na+/K+ transporting, alpha 1 polypeptide	Atp1a1	100771378	91.99	91.34	83.49	82.11	68.58	73.23	9207.13	9178.70	8411.41	8118.23	6843.33	7258.64
ATPase, Na+/K+ transporting, alpha 2 polypeptide	Atp1a2	100763478	0.00	0.01	0.01	0.00	0.02	0.03	0.76	0.92	2.48	0.00	2.07	2.80
ATPase, Na+/K+ transporting, alpha 3 polypeptide	Atp1a3	100758209	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
ATPase, Na+/K+ transporting, alpha 4 polypeptide	Atp1a4	100763191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ATPase, Na+/K+ transporting, beta 1 polypeptide	Atp1b1	100760718	0.16	0.17	0.03	0.03	0.03	0.00	9.11	8.24	1.24	1.16	2.07	0.00
ATPase, Na+/K+ transporting, beta 2 polypeptide	Atp1b2	100757379	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

ATPase, Na+/K+ transporting, beta 3 polypeptide	Atp1b3	100765669	96.69	96.06	57.83	57.47	62.91	59.86	3504.51	3525.62	2123.97	2083.74	2311.12	2160.96
ATPase, Na+/K+ transporting, beta 4 polypeptide	Atp1b4	100762833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATPase, Ca++ transporting, cardiac muscle, fast twitch 1	Atp2a1	100763714	0.11	0.18	0.13	0.12	0.16	0.15	15.19	21.05	16.15	18.54	23.80	19.63
ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	Atp2a2	100751820	89.57	88.34	94.98	99.54	94.04	98.31	13351.18	13343.93	14318.78	14922.25	14000.26	14532.24
ATPase, Ca++ transporting, ubiquitous	Atp2a3	100756356	0.02	0.00	0.02	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
ATPase, Ca++ transporting, plasma membrane 1	Atp2b1	100764066	28.46	27.49	26.77	31.06	35.83	33.28	5880.35	5686.02	5579.45	6412.30	7340.12	6869.82
ATPase, Ca++ transporting, plasma membrane 2	Atp2b2	100759670	0.01	0.00	0.00	0.00	0.00	0.01	0.76	0.92	0.00	0.00	0.00	0.93
ATPase, Ca++ transporting, plasma membrane 3	Atp2b3	100753233	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATPase, Ca++ transporting, plasma membrane 4	Atp2b4	100764868	4.71	4.79	7.95	9.12	9.30	9.51	729.92	764.05	1240.84	1391.86	1463.47	1474.91
ATPase, Ca++ transporting, type 2C, member 1	Atp2c1	100765106	14.25	14.93	15.67	17.78	19.80	19.39	2047.72	2149.41	2253.15	2506.74	2809.99	2726.43
ATPase, Ca++ transporting, type 2C, member 2	Atp2c2	100772976	0.05	0.04	0.03	0.03	0.00	0.06	3.80	4.58	3.73	2.32	2.07	5.61
ATPase, H+/K+ exchanging, alpha polypeptide	Atp4a	100767384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATPase, H+/K+ exchanging, beta polypeptide	Atp4b	100750430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	Atp5a1	100770431	161.99	162.90	159.77	152.28	145.09	157.78	8157.45	8296.61	8090.95	7625.69	7284.23	7897.96
ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide	Atp5b	100763024	456.04	447.96	508.46	504.92	502.11	536.12	22199.81	21962.63	24854.16	24382.52	24268.36	25892.22
ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit	Atp5d	100766108	107.15	93.44	91.67	58.47	36.71	45.21	2385.71	2080.79	2014.66	1267.86	824.88	990.75
ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit	Atp5e	103162776	293.98	274.55	250.54	231.40	262.97	266.31	3098.92	2915.30	2598.45	2321.32	2749.96	2699.33
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1	Atp5f1	100774535	204.36	209.85	194.02	200.59	213.71	209.77	5725.41	5926.67	5416.74	5427.22	5831.11	5695.88
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C1 (subunit 9)	Atp5g1	100752739	519.55	480.57	329.21	297.03	253.20	308.20	7448.04	6897.52	4619.32	4075.92	3596.58	4274.24
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C2 (subunit 9)	Atp5g2	100772366	306.83	283.00	295.46	252.37	193.23	226.19	7075.11	6587.33	6850.11	5685.66	4409.04	5043.48
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9)	Atp5g3	100754380	316.55	292.24	284.94	276.33	263.69	307.94	4997.77	4727.98	4392.02	3903.24	3731.13	4253.68
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit d	Atp5h	100771541	261.17	261.97	288.90	301.65	308.80	305.18	3155.13	3169.68	3444.31	3528.91	3720.78	3607.83
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit E	Atp5i	100766302	251.53	257.14	213.79	188.84	122.18	139.99	1308.69	1378.96	1135.27	890.05	633.41	660.81
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit F6	Atp5j	100756936	365.82	375.40	368.61	369.79	392.26	415.11	3966.31	4058.17	3897.67	3791.99	4144.09	4322.85

ATP synthase, H+ transporting, mitochondrial Fo complex, subunit F2	Atp5j2	103160361	563.68	532.73	478.73	504.25	519.06	531.68	5385.13	4995.17	4420.59	4459.52	4756.80	4792.99
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit G	Atp5l	100757815	370.80	386.95	357.75	282.36	226.75	256.34	5316.77	5534.12	5008.09	3757.22	2940.40	3341.44
ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit	Atp5o	100770018	231.19	216.79	230.16	231.27	217.17	237.17	7142.71	6839.88	7253.79	7076.36	6698.43	7124.05
ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)	Atp5s	100768179	8.56	7.95	6.35	5.87	7.73	6.43	215.71	199.48	155.26	161.09	190.44	170.11
ATP5S-like	Atp5sl	100774519	3.20	3.24	3.00	2.06	0.97	1.21	162.54	163.79	144.08	141.39	105.57	100.94
ATPase, H+ transporting, lysosomal accessory protein 1	Atp6ap1	100760638	93.61	90.95	103.47	103.69	112.78	118.74	4947.64	4793.86	5483.81	5455.04	5868.37	6229.57
ATPase, H+ transporting, lysosomal accessory protein 1-like	Atp6ap1l	100772450	0.06	0.04	0.00	0.00	0.00	0.08	1.52	0.92	1.24	1.16	0.00	1.87
ATPase, H+ transporting, lysosomal accessory protein 2	Atp6ap2	100768578	72.96	68.56	62.30	66.28	76.90	71.58	3834.15	3626.28	3277.87	3460.53	4022.99	3808.78
ATPase, H+ transporting, lysosomal V0 subunit a1	Atp6v0a1	100756648	10.21	10.31	6.38	6.73	7.81	7.46	1216.78	1231.64	762.64	801.97	942.87	899.15
ATPase, H+ transporting, lysosomal V0 subunit a2	Atp6v0a2	100766909	7.63	6.96	9.44	10.29	10.51	10.60	1241.85	1125.49	1545.16	1651.46	1667.36	1710.45
ATPase, H+ transporting, lysosomal V0 subunit a4	Atp6v0a4	100769769	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ATPase, H+ transporting, lysosomal 21kDa, V0 subunit b	Atp6v0b	100754687	65.73	57.75	74.33	74.86	62.20	73.75	1822.13	1651.64	2073.04	2000.30	1659.08	1917.01
ATPase, H+ transporting, lysosomal 16kDa, V0 subunit c	Atp6v0c	100772184	100.38	99.84	104.80	64.50	51.48	52.13	3070.82	3065.36	3218.25	1969.00	1572.14	1614.17
ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1	Atp6v0d1	100762360	37.57	36.55	46.40	43.59	41.22	46.65	1779.60	1761.44	2246.94	2099.96	1965.44	2205.82
ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d2	Atp6v0d2	100758035	0.05	0.06	0.00	0.00	0.00	0.00	1.52	3.66	0.00	0.00	0.00	0.00
ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1	Atp6v0e1	100769759	69.53	66.62	73.94	72.70	78.10	77.94	1406.67	1354.25	1468.15	1415.04	1550.41	1559.96
ATPase, H+ transporting V0 subunit e2	Atp6v0e2	100766003	1.66	1.30	1.93	1.91	1.63	1.77	98.74	73.20	111.79	111.26	87.97	95.34
ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A	Atp6v1a	100768315	15.93	16.10	16.87	19.44	21.15	22.41	1609.46	1654.38	1733.95	1957.42	2125.86	2245.08
ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B1	Atp6v1b1	100756094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2	Atp6v1b2	100774665	34.66	33.08	36.12	37.67	40.56	43.88	2584.71	2473.34	2685.39	2775.61	2983.87	3249.85
ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1	Atp6v1c1	100773930	26.71	26.98	32.08	35.09	33.18	35.00	1555.54	1598.56	1902.88	2003.77	1921.97	1980.57
ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2	Atp6v1c2	100763093	12.91	13.37	13.93	14.41	18.06	17.23	464.84	488.63	485.66	487.91	610.64	622.49
ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D	Atp6v1d	100762500	80.08	76.68	84.36	85.46	87.60	88.60	2994.10	2879.61	3173.53	3141.83	3214.67	3306.86
ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1	Atp6v1e1	100755187	99.38	99.79	104.79	96.89	87.88	98.36	3416.41	3480.79	3618.20	3276.27	3023.20	3330.23
ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E2	Atp6v1e2	100765179	0.92	0.88	0.85	0.69	0.75	0.62	71.40	65.88	67.07	59.10	55.89	53.28
ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F	Atp6v1f	100752884	84.97	84.65	104.81	81.99	65.69	65.71	1287.42	1289.28	1592.36	1222.66	998.76	991.68
ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1	Atp6v1g1	100774299	183.39	171.53	177.06	154.16	157.02	164.79	4989.41	4652.03	4779.55	4119.96	4169.96	4351.82

ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2	Atp6v1g2	100765359	9.00	8.64	8.94	9.48	9.63	10.58	380.53	366.01	391.26	394.03	415.03	466.40
ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G3	Atp6v1g3	100763970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H	Atp6v1h	100754134	16.17	16.53	16.91	18.86	20.49	20.58	830.18	849.15	854.56	949.16	1027.74	1036.55
ATPase, Cu++ transporting, alpha polypeptide	Atp7a	100689242	3.79	4.03	4.31	4.50	5.05	5.04	878.79	937.91	1006.09	1038.39	1164.36	1164.60
ATPase, Cu++ transporting, beta polypeptide	Atp7b	100770719	3.02	3.02	3.15	3.21	3.75	3.43	575.73	588.37	616.08	620.02	725.53	672.03
ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	Atp8a1	100756975	10.90	11.17	9.55	10.98	13.75	12.41	817.26	760.39	786.24	895.85	1029.81	930.00
ATPase, aminophospholipid transporter, class I, type 8A, member 2	Atp8a2	100763581	0.01	0.02	0.00	0.00	0.00	0.00	6.84	8.24	1.24	0.00	1.03	0.00
ATPase, aminophospholipid transporter, class I, type 8B, member 1	Atp8b1	100763292	0.01	0.00	0.01	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.93
ATPase, aminophospholipid transporter, class I, type 8B, member 2	Atp8b2	100751265	32.75	30.32	29.67	29.68	22.15	24.73	5323.61	5033.60	4943.51	4940.48	3636.94	4021.88
ATPase, aminophospholipid transporter, class I, type 8B, member 3	Atp8b3	100757984	0.05	0.08	0.03	0.02	0.04	0.02	13.67	12.81	4.97	3.48	5.17	3.74
ATPase, class I, type 8B, member 4	Atp8b4	100759968	0.01	0.01	0.01	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
ATPase, class II, type 9B	Atp9b	100765138	4.31	4.14	4.70	4.66	4.88	4.41	587.12	566.41	658.31	654.79	688.27	633.71
ATP synthase mitochondrial F1 complex assembly factor 1	Atpaf1	100770122	22.30	24.15	24.12	27.20	27.46	26.42	1275.27	1387.19	1413.49	1562.22	1591.81	1528.18
ATP synthase mitochondrial F1 complex assembly factor 2	Atpaf2	100754752	17.48	16.44	15.87	16.58	14.76	15.15	694.22	683.53	674.45	699.99	635.48	636.51
ATPase inhibitory factor 1	Atpif1	100771468	105.78	103.91	102.84	89.05	93.37	89.85	1417.30	1404.58	1361.33	1135.74	1200.58	1151.51
ataxia telangiectasia and Rad3 related	Atr	100766256	4.35	4.58	2.35	2.89	3.24	3.02	1093.74	1160.26	621.04	727.80	842.48	778.58
all-trans retinoic acid-induced differentiation factor	Atraid	100772507	40.79	39.32	31.75	35.78	34.80	36.60	1002.59	980.00	786.24	868.03	855.93	889.81
ATR interacting protein	Atrip	100762140	5.06	5.19	5.99	5.73	5.65	6.51	412.43	420.92	512.98	483.27	476.09	529.02
attractin	Atrn	100774269	6.86	6.61	7.13	7.77	7.75	8.34	1345.14	1313.07	1447.03	1562.22	1548.34	1651.56
alpha thalassemia/mental retardation syndrome X-linked	Atrx	100767383	10.46	10.49	10.93	13.29	15.13	14.13	3165.76	3165.10	3371.02	4057.38	4564.29	4277.05
ataxin 1	Atxn1	100765598	0.52	0.54	0.40	0.30	0.24	0.27	47.85	50.33	36.02	28.97	25.87	24.30
ataxin 10	Atxn10	100756095	63.15	61.18	64.08	65.51	74.66	77.08	4062.02	4043.53	4170.93	4184.86	4800.27	4901.41
ataxin 1-like	Atxn1l	100755753	8.74	8.50	8.05	8.77	7.90	8.45	1566.93	1536.34	1463.18	1576.13	1412.76	1550.62
ataxin 2	Atxn2	100772811	19.09	18.78	17.76	18.42	16.22	16.93	2249.00	2214.38	2140.12	2162.54	1941.63	2066.55
ataxin 2-like	Atxn2l	100765372	87.59	87.01	84.62	76.14	73.70	75.78	9691.72	9552.04	9356.64	8305.98	7986.99	8290.52
ataxin 3	Atxn3	100754332	17.21	18.03	18.07	20.49	21.94	22.41	1181.84	1164.84	1280.59	1459.08	1523.50	1464.63
ataxin 7	Atxn7	100753336	3.23	2.74	2.49	3.15	2.81	2.69	293.18	244.31	231.03	297.84	268.06	260.77
ataxin 7-like 1	Atxn7l1	100758796	0.51	0.66	0.35	0.55	0.82	0.67	118.49	124.44	119.24	141.39	156.28	171.98
ataxin 7-like 2	Atxn7l2	100773539	5.47	4.28	4.83	3.70	2.84	3.07	499.78	389.80	460.81	360.42	285.66	294.42
ataxin 7-like 3	Atxn7l3	100754412	25.26	24.25	17.84	18.34	18.10	19.53	1339.83	1356.08	982.49	1055.78	1116.75	1173.95

ataxin 7-like 3B	Atxn7l3b	100759327	49.95	51.33	63.36	55.27	59.49	62.90	4790.41	4928.37	6123.49	5314.81	5672.76	6066.94
AU RNA binding protein/enoyl-CoA hydratase	Auh	100774025	6.77	6.38	7.63	8.27	6.90	8.77	277.99	268.10	310.52	334.93	290.83	354.24
aurora kinase A and ninein interacting protein	Aunip	100763527	11.83	12.32	15.52	17.34	17.70	17.99	1101.33	1157.52	1490.50	1636.39	1665.29	1698.29
ancient ubiquitous protein 1	Aup1	100760920	66.57	63.87	73.98	68.20	65.20	67.83	2874.10	2774.38	3205.83	2884.55	2645.43	2779.71
aurora kinase A	Aurka	100761359	63.56	64.22	54.23	53.47	50.59	54.60	3427.80	3493.60	2956.17	2883.39	2726.15	2943.27
aurora kinase A interacting protein 1	Aurkaip1	100770569	238.01	226.30	236.19	242.24	203.90	217.64	5034.99	4754.51	4947.23	4617.14	3731.13	3967.67
aurora kinase B	Aurkb	100753283	10.52	9.97	10.57	11.61	10.00	11.09	545.35	503.27	529.13	587.57	512.32	567.34
aurora kinase C	Aurkc	100762186	32.59	32.47	39.25	39.15	39.26	42.14	574.21	561.83	695.57	649.00	661.36	706.61
autism susceptibility candidate 2	Auts2	100750545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apoptosis, caspase activation inhibitor	Aven	100751273	51.81	51.31	62.00	61.21	58.97	61.20	1164.37	1146.54	1378.72	1320.01	1310.29	1321.62
advillin	Avil	100761585	0.03	0.01	0.02	0.03	0.03	0.02	4.56	2.75	2.48	3.48	8.28	5.61
AVL9 homolog (S. cerevisiase)	Avl9	100768061	14.12	13.23	12.96	14.73	13.49	12.81	2853.59	2686.54	2653.10	2994.65	2716.84	2611.47
arginine vasopressin-induced 1	Avpi1	100759679	20.89	22.36	17.24	13.33	11.14	10.06	632.70	674.38	525.40	398.67	331.20	306.57
arginine vasopressin receptor 1A	Avpr1a	100756428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arginine vasopressin receptor 1B	Avpr1b	100757693	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arginine vasopressin receptor 2	Avpr2	100768840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
acyl-CoA wax alcohol acyltransferase 1	Awat1	100769131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA wax alcohol acyltransferase 2	Awat2	100768365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
axin 1	Axin1	100758169	32.47	30.72	35.26	34.45	28.25	32.42	3090.57	2956.47	3415.74	3301.76	2695.10	3071.32
axin 2	Axin2	100750382	1.06	1.25	0.30	0.46	0.67	0.59	132.16	157.39	36.02	59.10	82.80	75.71
AXL receptor tyrosine kinase	Axl	100772486	125.30	123.66	135.63	132.60	128.13	132.61	14078.82	13961.58	15231.71	14705.53	14114.11	14664.97
alpha-2-glycoprotein 1, zinc-binding	Azgp1	100773168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
5-azacytidine induced 2	Azi2	100750738	36.19	39.22	39.96	42.93	44.80	43.50	2818.65	3040.66	3123.85	3308.72	3440.29	3352.66
antizyme inhibitor 1	Azin1	100774224	55.47	56.00	57.98	64.78	60.56	60.63	6276.83	6369.55	6601.69	7303.51	6782.27	6842.72
beta-2-microglobulin	B2m	100689409	234.17	250.00	259.01	272.40	328.77	330.39	4384.06	4724.32	4891.34	5118.95	6233.72	6203.40
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	B3galnt1	100756438	14.71	14.92	18.70	18.17	20.44	18.87	1170.45	1187.71	1471.87	1430.11	1586.63	1486.12
beta-1,3-N-acetylgalactosaminyltransferase 2	B3galnt2	100768564	13.08	13.20	14.27	14.93	16.28	16.16	1104.37	1140.13	1261.96	1257.43	1319.61	1366.49
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1	B3galt1	100761765	0.65	0.50	0.43	0.52	0.64	0.65	65.32	46.67	42.23	48.67	53.82	60.75
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	B3galt2	100766715	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4	B3galt4	100751197	2.67	2.49	2.53	2.01	0.92	1.31	125.32	118.04	124.21	96.19	49.68	60.75
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5	B3galt5	100755714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6	B3galt6	100767598	13.69	13.89	15.95	15.92	15.77	16.46	1281.34	1281.96	1484.29	1498.48	1468.65	1544.07
beta 1,3-galactosyltransferase-like	B3galtl	100759864	16.56	16.97	17.11	19.59	21.41	20.01	1374.01	1417.39	1470.63	1622.49	1763.62	1639.41
beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)	B3gat1	100750701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

beta-1,3-glucuronyltransferase 2 (glucuronosyltransferase S)	B3gat2	100756696	0.08	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	1.87
beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)	B3gat3	100689419	18.82	16.64	17.26	11.51	7.30	7.24	686.62	593.86	626.01	424.16	288.76	283.20
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	B3gnt1	100762253	19.94	20.81	26.11	20.52	21.08	20.65	985.12	1016.60	1300.46	1015.21	1029.81	1025.33
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2	B3gnt2	100766691	22.80	26.05	25.18	26.33	30.55	29.61	1680.86	1918.83	1874.31	1942.35	2236.61	2187.13
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3	B3gnt3	100773213	0.07	0.09	0.03	0.03	0.00	0.02	4.56	4.58	1.24	1.16	1.03	0.93
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4	B3gnt4	100769077	0.25	0.16	0.25	0.35	0.21	0.17	9.87	6.41	8.69	13.91	7.24	5.61
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	B3gnt5	100757919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core 3 synthase)	B3gnt6	100768656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	B3gnt7	100760456	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	B3gnt8	103160327	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 9	B3gnt9	103159649	3.59	3.68	4.55	4.61	3.66	4.41	185.33	189.41	245.93	227.15	180.09	230.86
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1	B3gntl1	100751193	16.33	17.20	6.00	4.68	3.87	4.47	684.34	713.73	234.75	200.49	165.60	186.00
beta-1,4-N-acetyl-galactosaminyl transferase 1	B4galnt 1	100764682	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
beta-1,4-N-acetyl-galactosaminyl transferase 2	B4galnt 2	100760696	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
beta-1,4-N-acetyl-galactosaminyl transferase 3	B4galnt 3	100756528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
beta-1,4-N-acetyl-galactosaminyl transferase 4	B4galnt 4	100758404	0.02	0.02	0.19	0.07	0.09	0.31	9.87	4.58	27.33	12.75	13.45	39.26
UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1	B4galt1	100689430	9.24	8.99	11.57	12.13	13.30	12.95	238.50	237.91	296.86	308.27	348.79	366.39
UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2	B4galt2	100689434	32.13	32.96	35.51	32.05	23.88	26.04	1597.31	1678.17	1864.37	1689.71	1209.90	1340.32
UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3	B4galt3	100689346	19.29	18.96	23.01	20.05	16.67	18.69	944.11	950.72	1147.69	1002.47	861.11	962.71
UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 4	B4galt4	100689435	16.12	17.40	15.74	17.03	18.13	18.25	981.32	1020.26	977.52	1017.53	1103.30	1074.87
UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5	B4galt5	100689347	8.52	8.17	6.18	5.92	8.01	7.52	334.20	338.56	255.87	252.64	315.67	279.47
UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6	B4galt6	100689438	5.58	5.30	5.31	4.48	6.50	5.41	198.24	206.80	190.04	190.06	239.08	196.28
xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7	B4galt7	100769652	42.78	42.62	46.61	37.52	23.93	27.56	2074.30	2066.15	2261.84	1833.41	1199.55	1356.21
B9 protein domain 1	B9d1	100774531	5.66	6.47	6.87	6.58	5.25	6.83	139.76	155.56	157.75	172.68	141.79	156.09
B9 protein domain 2	B9d2	103160326	8.19	8.32	8.15	7.07	3.89	5.65	108.61	107.97	99.37	93.87	57.96	74.77
brain and acute leukemia, cytoplasmic	Baalc	100774798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRISC and BRCA1 A complex member 1	Babam1	100755943	55.31	53.99	64.18	49.82	33.91	40.32	2215.58	2164.97	2624.53	1994.50	1421.04	1641.28
beta-site APP-cleaving enzyme 1	Bace1	100762079	20.57	20.88	25.20	25.94	26.59	28.93	2319.63	2376.34	2858.04	2965.68	3021.13	3292.84

beta-site APP-cleaving enzyme 2	Bace2	100764950	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
BTB and CNC homology 1, basic leucine zipper transcription factor 1	Bach1	100770017	6.65	7.10	7.85	8.61	8.00	8.00	1100.57	1187.71	1329.03	1441.70	1336.17	1350.60
BTB and CNC homology 1, basic leucine zipper transcription factor 2	Bach2	100774050	0.04	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.00	0.00	0.00	0.00
BCL2-associated agonist of cell death	Bad	100760426	7.89	6.78	7.02	4.89	3.82	3.59	388.88	346.80	417.34	276.98	215.28	214.97
BCL2-associated athanogene	Bag1	100759550	21.77	20.79	28.20	30.24	34.67	34.34	467.88	465.75	577.57	606.12	712.07	714.09
BCL2-associated athanogene 2	Bag2	100750795	17.90	18.42	24.18	28.45	23.62	22.15	443.57	454.77	583.78	667.54	555.79	558.00
BCL2-associated athanogene 3	Bag3	100758034	28.07	28.87	24.85	22.20	18.64	18.12	1978.60	2032.29	1762.52	1577.29	1298.91	1278.63
BCL2-associated athanogene 4	Bag4	100753192	15.12	14.53	17.56	17.75	18.74	20.10	1092.22	1064.18	1299.22	1293.35	1380.67	1483.32
BCL2-associated athanogene 5	Bag5	100757492	38.12	40.88	39.27	43.57	44.12	43.62	1888.97	2025.88	1958.77	2150.96	2165.19	2148.81
BCL2-associated athanogene 6	Bag6	100763893	82.98	78.54	74.87	56.22	39.60	44.63	9651.46	9030.47	8586.55	6233.83	4369.71	4928.51
BAH domain and coiled-coil containing 1	Bahcc1	100754288	7.75	7.77	3.12	2.32	1.61	1.28	2020.37	2023.14	816.05	620.02	450.22	370.13
bromo adjacent homology domain containing 1	Bahd1	100753540	10.19	10.07	9.37	7.49	5.89	6.10	979.05	971.77	956.41	718.53	586.84	604.73
brain-specific angiogenesis inhibitor 1	Bai1	100766156	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
brain-specific angiogenesis inhibitor 2	Bai2	100774076	0.37	0.35	0.00	0.00	0.00	0.01	52.41	54.90	0.00	0.00	0.00	0.93
brain-specific angiogenesis inhibitor 3	Bai3	100753086	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BAI1-associated protein 2	Baiap2	100761815	26.65	26.92	18.97	14.77	11.07	11.98	2856.63	2906.15	2046.96	1692.02	1229.56	1307.60
BAI1-associated protein 2-like 1	Baiap2l1	100763126	12.95	13.79	15.32	17.66	13.81	13.37	1143.87	1238.96	1356.36	1563.38	1217.14	1176.75
BAI1-associated protein 2-like 2	Baiap2l2	100757056	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	4.97	5.79	0.00	0.00
BAI1-associated protein 3	Baiap3	100751355	0.04	0.02	0.04	0.04	0.03	0.03	4.56	3.66	6.21	6.95	5.17	3.74
BCL2-antagonist/killer 1	Bak1	100689368	49.92	43.99	50.83	47.21	36.17	35.39	2767.76	2752.42	2911.45	2562.37	1868.15	1945.98
BMP and activin membrane-bound inhibitor	Bambi	100771599	3.91	3.69	3.04	3.20	3.55	3.68	120.01	107.97	93.16	98.51	101.43	114.96
barrier to autointegration factor 1	Banf1	100765074	563.10	528.64	561.95	549.15	527.26	597.18	8463.55	7969.94	8505.81	8183.13	7937.31	8935.44
barrier to autointegration factor 2	Banf2	100768587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-cell scaffold protein with ankyrin repeats 1	Bank1	100762463	0.51	0.54	0.48	0.51	0.28	0.13	66.84	70.46	63.35	62.58	31.05	18.69
BTG3 associated nuclear protein	Banp	100768192	21.74	20.17	18.93	17.93	15.44	16.23	1476.54	1411.90	1319.10	1231.93	1073.28	1100.11
BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	Bap1	100765297	44.24	42.79	42.91	42.62	38.70	41.79	4486.60	4401.31	4408.17	4340.15	3929.84	4263.96
BRCA1 associated RING domain 1	Bard1	100750589	6.07	5.97	5.98	6.04	7.09	7.34	615.99	610.33	616.08	628.13	729.67	759.89
BarH-like homeobox 1	Barhl1	100774052	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
BarH-like homeobox 2	Barhl2	100762455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARX homeobox 1	Barx1	100763836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARX homeobox 2	Barx2	100765416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
basic leucine zipper transcription factor, ATF-like	Batf	100755965	12.71	12.25	10.00	6.64	5.09	6.28	289.38	280.00	229.79	155.30	125.23	148.61
basic leucine zipper transcription factor, ATF-like 2	Batf2	100759752	2.65	2.76	3.02	2.15	1.31	1.56	168.62	188.50	185.07	135.59	96.25	101.88
basic leucine zipper transcription factor, ATF-like 3	Batf3	100765560	0.00	0.00	0.00	0.24	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
BCL2-associated X protein	Bax	100689032	49.04	46.98	46.22	44.47	33.44	34.12	932.71	904.97	875.67	807.77	582.70	617.82
bromodomain adjacent to zinc finger domain, 1A	Baz1a	100757354	20.57	19.52	18.76	22.46	19.75	18.92	3011.57	2875.04	2799.66	3263.52	2917.63	2795.60

bromodomain adjacent to zinc finger domain, 1B	Baz1b	100760864	58.12	58.83	69.50	70.08	69.86	72.60	9881.61	10054.39	11941.42	11935.72	11844.38	12349.79
bromodomain adjacent to zinc finger domain, 2A	Baz2a	100763314	12.58	12.53	11.70	11.92	11.88	12.19	3123.98	3120.26	2946.23	2949.45	2945.57	3054.50
bromodomain adjacent to zinc finger domain, 2B	Baz2b	100770047	4.04	3.89	3.53	4.17	4.32	3.78	1040.57	1010.20	939.02	1080.11	1115.72	991.68
BCL2 binding component 3	Bbc3	103164214	19.90	19.01	13.53	6.50	3.36	3.60	143.55	127.19	95.64	40.56	19.66	23.37
BBSome interacting protein 1	Bbip1	100767213	23.45	25.19	20.17	23.16	27.64	23.95	683.59	699.09	582.54	640.88	741.05	678.57
butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1	Bbox1	100759730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bardet-Biedl syndrome 1	Bbs1	100767595	12.66	11.97	14.63	16.19	15.36	17.71	704.85	679.87	828.47	920.18	883.88	972.06
Bardet-Biedl syndrome 10	Bbs10	100763026	5.87	5.36	5.90	5.93	7.99	7.41	451.93	415.43	459.57	461.25	605.47	563.61
Bardet-Biedl syndrome 12	Bbs12	100755190	4.33	4.99	4.36	4.71	5.10	5.38	406.35	463.92	407.40	434.59	464.71	483.22
Bardet-Biedl syndrome 2	Bbs2	100756643	0.02	0.04	0.02	0.00	0.03	0.01	2.28	4.58	1.24	1.16	2.07	2.80
Bardet-Biedl syndrome 4	Bbs4	100755264	21.37	23.18	21.07	23.21	25.57	23.98	2131.27	2301.31	2133.91	2280.75	2535.72	2370.32
Bardet-Biedl syndrome 5	Bbs5	100762765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bardet-Biedl syndrome 7	Bbs7	100758793	9.53	9.68	10.39	12.85	14.91	13.42	761.06	787.84	824.75	1014.05	1213.00	1085.15
Bardet-Biedl syndrome 9	Bbs9	100768362	7.84	6.98	6.76	8.00	8.38	8.71	737.51	686.28	655.82	723.17	808.32	795.40
bobby sox homolog (Drosophila)	Bbx	100769386	24.18	23.87	28.61	33.71	35.42	33.44	2245.20	2265.62	2701.54	3222.96	3290.22	3115.25
basal cell adhesion molecule (Lutheran blood group)	Bcam	100751659	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
brevican	Bcan	100753507	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
B-cell receptor-associated protein 29	Bcap29	100754548	91.51	96.96	83.35	91.30	90.50	82.39	2193.55	2278.43	2027.09	2132.41	2175.54	2005.80
B-cell receptor-associated protein 31	Bcap31	100770274	61.54	63.34	62.74	66.27	68.60	75.19	2050.76	2109.15	2140.12	2237.87	2330.79	2508.65
breast cancer anti-estrogen resistance 1	Bcar1	100768861	31.15	29.97	28.14	21.60	16.74	17.92	2815.61	2713.07	2558.70	1971.32	1524.53	1641.28
breast cancer anti-estrogen resistance 3	Bcar3	100758812	38.75	40.82	46.44	47.91	60.54	55.78	1184.12	1207.84	1398.59	1489.21	1780.18	1741.29
breast carcinoma amplified sequence 1	Bcas1	100756615	0.09	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
breast carcinoma amplified sequence 2	Bcas2	100758667	61.16	62.26	60.82	62.81	64.25	62.81	1730.23	1776.08	1686.75	1739.54	1773.97	1729.14
breast carcinoma amplified sequence 3	Bcas3	100761557	5.56	5.62	6.81	7.34	7.60	7.43	619.78	622.22	755.19	789.22	859.04	829.05
branched chain amino-acid transaminase 1, cytosolic	Bcat1	100763658	52.90	54.56	58.14	60.08	55.35	58.83	5924.41	6065.76	6539.59	6720.58	6150.92	6647.37
branched chain amino-acid transaminase 2, mitochondrial	Bcat2	100752344	1.13	0.97	0.69	0.97	0.45	0.57	58.48	50.33	40.99	53.31	23.80	30.84
BRCA2 and CDKN1A interacting protein	Bccip	100757180	69.24	66.96	67.21	71.43	70.83	68.33	2258.87	2180.52	2228.30	2265.69	2216.94	2165.63
BCDIN3 domain containing	Bcdin3d	100757267	17.05	18.75	17.35	15.12	13.47	13.69	583.33	642.35	603.65	508.77	472.99	484.16
butyrylcholinesterase	Bche	100767789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
branched chain keto acid dehydrogenase E1, alpha polypeptide	Bckdha	100774234	21.14	27.00	27.98	22.14	16.38	14.86	301.54	345.88	353.99	248.01	183.19	174.78
branched chain keto acid dehydrogenase E1, beta polypeptide	Bckdhb	100774277	26.65	23.91	14.02	16.13	16.00	15.30	985.88	940.65	561.42	599.16	596.15	566.41

branched chain ketoacid dehydrogenase kinase	Bckdk	100755998	39.72	38.55	48.10	44.28	40.22	39.62	2130.51	2077.13	2536.34	2339.86	2125.86	2138.52
B-cell CLL/lymphoma 10	Bcl10	100750466	47.54	46.04	44.36	46.60	48.48	46.22	2279.38	2207.98	2128.94	2226.29	2337.00	2254.42
B-cell CLL/lymphoma 11A (zinc finger protein)	Bcl11a	100760174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-cell CLL/lymphoma 11B (zinc finger protein)	Bcl11b	100768427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-cell CLL/lymphoma 2	Bcl2	100774873	2.62	3.14	3.60	3.78	3.76	4.01	141.27	164.71	188.80	193.54	190.44	209.37
BCL2-like 1	Bcl2l1	100689371	25.10	24.27	34.33	31.20	27.19	28.22	1576.80	1615.03	2245.69	2157.91	1915.76	1991.78
BCL2-like 10 (apoptosis facilitator)	Bcl2l10	100752860	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BCL2-like 11 (apoptosis facilitator)	Bcl2l11	100771754	5.37	5.31	7.06	6.34	5.99	6.42	805.11	803.40	1064.47	959.59	893.19	965.51
BCL2-like 12 (proline rich)	Bcl2l12	100765966	25.46	23.74	30.25	22.00	15.68	17.48	873.47	813.46	1065.71	748.66	537.16	598.19
BCL2-like 14 (apoptosis facilitator)	Bcl2l14	100774179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BCL2-like 15	Bcl2l15	100760311	0.00	0.00	0.00	0.00	0.11	0.00	0.76	0.00	0.00	0.00	1.03	0.00
BCL2-like 2	Bcl2l2	103159537	27.24	26.83	26.66	27.94	26.21	26.85	2945.49	2906.15	2892.82	2996.97	2774.80	2879.72
B-cell CLL/lymphoma 3	Bcl3	100751077	0.22	0.18	0.08	0.00	0.00	0.00	7.60	5.49	1.24	0.00	0.00	0.00
B-cell CLL/lymphoma 6	Bcl6	100773755	3.70	3.84	4.05	4.10	3.30	3.53	350.91	360.52	388.77	395.19	323.95	344.89
B-cell CLL/lymphoma 6, member B	Bcl6b	100764025	0.14	0.06	0.03	0.19	0.10	0.20	6.08	3.66	1.24	9.27	6.21	8.41
B-cell CLL/lymphoma 7A	Bcl7a	100753895	6.92	5.83	5.00	6.35	5.62	4.65	239.25	262.61	219.85	259.60	229.77	187.87
B-cell CLL/lymphoma 7B	Bcl7b	100760574	21.03	21.89	19.99	18.42	11.02	14.46	784.60	792.42	740.28	674.49	413.99	554.26
B-cell CLL/lymphoma 7C	Bcl7c	100753452	44.01	44.25	41.41	28.93	19.15	17.04	986.64	1002.88	957.65	646.68	444.01	401.91
B-cell CLL/lymphoma 9	Bcl9	100751238	10.20	9.97	9.48	8.74	6.81	7.19	1820.62	1785.23	1692.96	1557.59	1210.93	1301.99
B-cell CLL/lymphoma 9-like	Bcl9l	100770128	13.64	13.31	13.75	10.76	8.69	8.76	2656.11	2578.56	2656.82	2068.67	1652.87	1703.90
BCL2-associated transcription factor 1	Bclaf1	100773081	28.00	29.16	28.18	33.04	35.37	31.54	2827.00	2900.66	2901.51	3401.43	3653.50	3271.34
beta-carotene 15,15'-monooxygenase 1	Bcmo1	100760350	0.00	0.05	0.00	0.02	0.03	0.06	1.52	4.58	1.24	1.16	3.10	6.54
beta-carotene oxygenase 2	Bco2	100774947	4.32	3.72	4.64	5.53	5.43	5.78	303.06	268.10	324.18	389.40	377.77	416.86
BCL6 corepressor	Bcor	100767711	4.78	4.90	4.85	4.60	4.02	4.00	770.93	785.10	792.45	741.71	644.80	652.40
BCL6 corepressor-like 1	Bcorl1	100773975	3.41	2.83	3.05	2.54	2.85	2.90	548.39	468.50	499.32	411.42	458.50	464.53
breakpoint cluster region	Bcr	100768252	17.33	16.66	19.55	19.01	17.02	16.92	2653.83	2545.62	3017.03	2894.98	2591.61	2591.84
3-hydroxybutyrate dehydrogenase, type 1	Bdh1	100774340	16.48	17.41	21.40	19.64	17.61	18.13	796.76	832.68	1018.51	925.98	852.83	866.44
bradykinin receptor B1	Bdkrb1	100759905	0.03	0.07	0.05	0.00	0.00	0.07	2.28	1.83	1.24	0.00	2.07	1.87
bradykinin receptor B2	Bdkrb2	100759615	0.05	0.09	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
brain-derived neurotrophic factor	Bdnf	100768664	16.18	16.90	20.64	21.73	23.03	21.48	1023.10	1076.08	1284.32	1382.59	1467.61	1357.14
B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB	Bdp1	100759229	10.62	9.81	9.30	11.61	11.91	10.86	3224.24	2977.52	2810.84	3505.73	3577.95	3324.62
brain expressed, associated with NEDD4, 1	Bean1	100768989	1.42	1.35	0.02	0.08	0.07	0.06	109.37	104.31	3.73	9.27	6.21	5.61
beclin 1, autophagy related	Becn1	100762045	64.81	65.74	56.46	59.49	69.84	65.02	3818.96	3890.72	3257.99	3384.05	3770.46	3605.96
brain-enriched guanylate kinase-associated	Begain	100766701	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
BEN domain containing 3	Bend3	100768308	8.38	7.60	7.87	7.22	5.96	6.09	1367.93	1256.34	1295.50	1187.89	963.57	1005.70
BEN domain containing 4	Bend4	100766260	12.52	12.84	13.02	14.30	13.86	13.41	2539.90	2614.25	2669.24	2920.48	2785.15	2731.10
BEN domain containing 5	Bend5	103162627	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEN domain containing 6	Bend6	100774404	8.25	8.08	5.73	8.51	9.92	8.67	533.96	533.46	365.17	557.44	638.59	567.34
BEN domain containing 7	Bend7	100754282	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

bestrophin 1	Best1	100758040	0.19	0.23	0.11	0.25	0.21	0.20	8.35	15.56	9.94	15.07	14.49	11.22
bestrophin 2	Best2	100762224	0.04	0.02	0.09	0.00	0.00	0.03	3.80	1.83	6.21	1.16	0.00	3.74
bestrophin 3	Best3	100759541	0.01	0.05	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
bestrophin 4	Best4	100754760	0.00	0.00	0.03	0.00	0.06	0.00	3.80	4.58	4.97	1.16	4.14	0.00
Bet1 golgi vesicular membrane trafficking protein	Bet1	100761331	46.36	54.53	50.52	45.68	45.37	43.84	824.86	939.74	920.39	805.45	905.61	899.15
Bet1 golgi vesicular membrane trafficking protein-like	Bet1l	100770224	16.86	15.97	17.58	17.56	17.65	17.98	1468.19	1374.38	1510.38	1504.28	1496.59	1538.47
brain expressed, X-linked 4	Bex4	100765842	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bifunctional apoptosis regulator	Bfar	100772795	14.83	14.95	17.54	18.06	19.80	18.14	1032.97	1012.03	1206.07	1250.47	1320.64	1247.78
beaded filament structural protein 1, filensin	Bfsp1	100772902	0.51	0.45	0.21	0.12	0.09	0.32	29.62	28.37	11.18	8.11	9.31	20.56
beaded filament structural protein 2, phakinin	Bfsp2	100767821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone gamma-carboxyglutamate (gla) protein	Bglap	100763202	0.17	0.53	0.44	0.84	0.49	0.89	11.39	9.15	7.45	16.22	8.28	10.28
biglycan	Bgn	100771022	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
basic helix-loop-helix family, member a15	Bhlha15	100768574	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
basic helix-loop-helix family, member a9	Bhlha9	100753830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
basic helix-loop-helix domain containing, class B, 9	Bhlhb9	100767015	15.62	16.34	17.45	17.83	20.77	20.63	1263.87	1292.94	1403.56	1441.70	1621.82	1644.08
basic helix-loop-helix family, member e40	Bhlhe40	100765325	3.68	3.93	1.43	1.86	1.60	1.71	291.66	309.28	115.51	143.71	125.23	132.72
basic helix-loop-helix family, member e41	Bhlhe41	100759250	11.53	12.85	9.91	10.49	12.68	12.14	239.25	272.68	214.88	201.65	243.22	249.56
betaine--homocysteine S-methyltransferase	Bhmt	100754488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
betaine--homocysteine S-methyltransferase 2	Bhmt2	100754773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BicC family RNA binding protein 1	Bicc1	100771763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bicaudal D homolog 1 (Drosophila)	Bicd1	100762966	0.74	0.76	0.63	0.74	0.86	1.05	40.26	42.09	33.54	41.72	45.54	60.75
bicaudal D homolog 2 (Drosophila)	Bicd2	100758573	12.67	13.63	9.78	9.71	8.47	9.46	1599.59	1743.14	1254.51	1215.71	1053.62	1186.10
BH3 interacting domain death agonist	Bid	100754606	27.27	28.23	49.83	45.88	56.45	56.80	1704.41	1790.72	3141.24	2850.94	3480.66	3511.55
BCL2-interacting killer (apoptosis-inducing)	Bik	100768268	0.20	0.21	0.11	0.12	0.22	0.12	9.87	9.15	3.73	11.59	8.28	6.54
bridging integrator 1	Bin1	100772852	12.66	11.27	15.42	14.37	11.18	12.44	865.87	764.05	1008.57	917.86	722.42	784.19
bridging integrator 2	Bin2	100750538	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93
bridging integrator 3	Bin3	100769924	21.46	19.85	23.06	22.75	19.21	21.32	943.35	886.67	1023.48	992.04	850.76	948.69
baculoviral IAP repeat containing 2	Birc2	100756596	6.88	6.80	7.59	8.89	9.44	9.25	670.67	654.25	736.56	854.12	921.14	893.54
baculoviral IAP repeat containing 3	Birc3	100761700	6.85	7.29	8.90	10.32	11.52	10.90	615.23	669.80	803.63	941.04	1045.34	999.16
baculoviral IAP repeat containing 5	Birc5	100689366	153.25	150.57	156.31	158.19	144.13	152.96	2759.41	2730.46	2762.40	2798.79	2538.82	2696.52
baculoviral IAP repeat containing 6	Birc6	100689237	8.95	8.52	7.77	9.65	10.31	9.97	4223.80	4066.41	3751.10	4590.48	4872.72	4676.15
baculoviral IAP repeat containing 7	Birc7	100758467	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.92	0.00	0.00	1.03	0.00
bladder cancer associated protein	Blcap	100757663	58.73	57.53	57.78	55.62	54.61	56.21	3171.84	3115.69	3137.51	2988.85	2912.45	3033.94
B lymphoid tyrosine kinase	Blk	100755534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Bloom syndrome, RecQ helicase-like	Blm	100762862	29.56	28.88	33.73	41.95	44.46	40.35	1953.53	1903.27	2219.61	2750.12	2955.92	2654.46
bleomycin hydrolase	Blmh	100754419	89.59	87.97	83.44	83.33	82.15	86.07	5865.16	5769.29	5447.79	5376.23	5303.27	5576.24
B-cell linker	Blnk	100755442	7.59	8.10	9.39	9.09	8.94	9.75	478.51	516.08	618.56	594.53	553.72	614.08

biogenesis of lysosomal organelles complex-1, subunit 1	Bloc1s1	100772750	82.13	74.99	78.33	63.39	35.85	41.64	991.20	942.48	980.01	754.46	431.59	495.37
biogenesis of lysosomal organelles complex-1, subunit 2	Bloc1s2	100754144	86.60	86.21	87.37	89.01	93.94	99.37	1787.96	1798.04	1812.20	1807.92	1895.06	1995.52
biogenesis of lysosomal organelles complex-1, subunit 4, cappuccino	Bloc1s4	100769537	17.79	17.95	15.63	15.50	17.03	17.35	584.09	605.75	539.07	538.90	612.71	627.16
biogenesis of lysosomal organelles complex-1, subunit 5, muted	Bloc1s5	100766796	20.02	19.91	19.61	21.41	23.86	23.14	953.98	953.46	941.50	1008.26	1118.82	1095.43
biogenesis of lysosomal organelles complex-1, subunit 6, pallidin	Bloc1s6	100771201	20.97	21.42	20.64	22.71	23.76	24.20	916.00	959.87	960.13	1059.25	1125.03	1133.75
biliverdin reductase A	Blvra	100751522	27.54	28.94	27.71	29.57	33.74	32.74	750.42	811.63	777.55	810.08	902.51	872.05
biliverdin reductase B (flavin reductase (NADPH))	Blvrb	100768929	147.71	142.50	187.09	177.79	153.02	168.23	1127.16	1090.72	1371.26	1157.76	951.15	1044.03
basic leucine zipper nuclear factor 1	Blzf1	100761007	16.93	17.56	14.78	16.29	19.73	17.67	1363.37	1400.00	1192.40	1307.26	1555.58	1430.98
Bcl2 modifying factor	Bmf	100761166	1.53	1.79	1.76	1.83	1.15	1.31	145.83	116.21	119.24	129.80	111.78	110.29
BMI1 polycomb ring finger oncogene	Bmi1	100754672	33.85	37.35	28.50	28.58	27.94	27.58	1127.92	1216.08	951.44	938.73	939.77	930.00
bone morphogenetic protein 1	Bmp1	100751120	21.51	20.01	18.75	16.77	12.61	14.26	2255.07	2122.88	1992.31	1748.81	1328.92	1512.30
bone morphogenetic protein 10	Bmp10	100766801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein 15	Bmp15	100756159	0.05	0.00	0.04	0.00	0.04	0.06	1.52	0.00	1.24	0.00	2.07	1.87
bone morphogenetic protein 2	Bmp2	100752564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BMP2 inducible kinase	Bmp2k	100769791	14.79	14.33	14.39	15.05	16.04	15.48	3181.71	3092.81	3086.59	3200.94	3386.48	3300.32
bone morphogenetic protein 3	Bmp3	100766849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein 4	Bmp4	100754303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein 5	Bmp5	100763439	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein 6	Bmp6	100768517	0.79	0.65	0.07	0.13	0.16	0.22	42.53	34.77	3.73	6.95	8.28	11.22
bone morphogenetic protein 7	Bmp7	100759897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BMP binding endothelial regulator	Bmper	100766307	0.13	0.08	0.03	0.03	0.06	0.08	10.63	5.49	3.73	2.32	5.17	5.61
bone morphogenetic protein receptor, type IA	Bmpr1a	100750332	16.51	17.06	19.41	20.20	20.98	20.19	2603.70	2696.60	3077.89	3189.35	3295.40	3179.75
bone morphogenetic protein receptor, type II (serine/threonine kinase)	Bmpr2	100764519	8.75	8.42	8.41	9.64	10.35	10.83	1364.13	1332.29	1338.97	1508.91	1607.33	1694.56
BMS1 ribosome biogenesis factor	Bms1	100770546	82.53	81.74	85.35	94.92	91.09	85.64	10439.11	10343.54	10860.81	11893.99	11411.76	10766.46
BMX non-receptor tyrosine kinase	Bmx	100751568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
basonuclin 1	Bnc1	100768562	0.01	0.00	0.00	0.00	0.01	0.02	1.52	0.00	0.00	0.00	1.03	1.87
basonuclin 2	Bnc2	100754985	5.11	5.05	5.88	7.24	7.13	6.72	862.08	853.73	991.19	1135.74	1180.92	1081.41
BCL2/adenovirus E1B 19kDa interacting protein 1	Bnip1	100770337	56.11	52.23	58.65	61.06	53.65	56.05	1761.37	1660.79	1842.01	1871.66	1660.12	1734.75
BCL2/adenovirus E1B 19kDa interacting protein 2	Bnip2	100750620	31.25	30.56	32.13	34.98	36.09	35.80	3507.55	3473.47	3631.86	3948.44	4089.23	4036.84
BCL2/adenovirus E1B 19kDa interacting protein 3	Bnip3	100774634	17.34	17.38	16.65	18.51	20.67	20.95	720.04	735.69	715.44	756.77	848.69	855.22
BCL2/adenovirus E1B 19kDa interacting protein 3-like	Bnip3l	100759633	38.84	38.68	38.10	39.78	53.30	51.71	3502.24	3519.22	3467.91	3581.06	4725.75	4619.14
BCL2/adenovirus E1B 19kD interacting protein like	Bnipl	100767161	0.22	0.25	0.20	0.22	0.38	0.27	26.58	29.28	23.60	25.50	41.40	34.58
BOC cell adhesion associated, oncogene regulated	Boc	100766664	6.87	6.66	8.06	7.59	5.96	6.30	856.00	824.45	1013.54	959.59	740.02	771.10
biorientation of chromosomes in cell division 1	Bod1	100750386	56.72	58.14	69.13	70.37	68.81	68.72	1673.26	1737.65	2066.83	2043.18	2019.26	2009.54
biorientation of chromosomes in cell division 1-like 1	Bod1l1	100769598	14.44	14.05	13.89	16.95	17.60	16.57	4609.64	4500.13	4488.90	5430.70	5588.93	5302.38

BCL2-related ovarian killer	Bok	100773011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.93
bolA family member 1	Bola1	100758926	9.31	8.59	7.74	3.15	3.54	2.41	131.40	109.80	103.09	48.67	50.71	42.06
bolA family member 2B	Bola2b	100770374	26.04	26.74	26.56	17.20	13.36	15.39	570.41	580.13	555.21	354.63	287.73	350.50
bolA family member 3	Bola3	100769793	38.04	35.76	37.32	41.87	41.55	44.44	524.08	507.84	524.16	540.06	542.33	579.50
boule-like RNA-binding protein	Boll	100772853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
block of proliferation 1	Bop1	100763888	58.89	56.49	59.66	49.37	36.69	42.01	4352.16	4221.96	4385.81	3621.62	2700.28	3096.56
bora, aurora kinase A activator	Bora	100774852	11.70	11.77	11.81	12.67	13.98	13.39	951.70	938.82	955.16	1037.23	1135.38	1091.69
2,3-bisphosphoglycerate mutase	Bpgm	100757548	10.22	10.00	9.10	10.92	9.67	10.64	444.33	441.96	399.95	482.11	425.38	471.07
biphenyl hydrolase-like (serine hydrolase)	Bphl	100761605	16.84	15.37	13.68	14.18	18.32	16.46	571.17	513.33	455.85	465.89	607.54	541.17
bactericidal/permeability-increasing protein	Bpi	100759574	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
BPI fold containing family A, member 1	Bpifa1	100753755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family A, member 2	Bpifa2	100759193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family A, member 3	Bpifa3	100754343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family B, member 1	Bpifb1	100753690	0.06	0.02	0.00	0.00	0.00	0.02	4.56	2.75	0.00	0.00	0.00	0.93
BPI fold containing family B, member 2	Bpifb2	100759900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family B, member 3	Bpifb3	100756247	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family B, member 4	Bpifb4	100754016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family B, member 6	Bpifb6	100758462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BPI fold containing family C	Bpifc	100752136	0.00	0.02	0.00	0.03	0.00	0.02	3.80	2.75	1.24	3.48	2.07	2.80
3'(2'), 5'-bisphosphate nucleotidase 1	Bpnt1	100774047	7.90	8.91	11.58	11.75	9.68	10.46	487.62	551.77	710.47	709.26	588.91	636.51
bromodomain PHD finger transcription factor	Bptf	100772838	11.99	12.22	11.20	12.15	11.96	11.67	3373.87	3445.10	3228.18	3408.38	3358.53	3252.65
v-raf murine sarcoma viral oncogene homolog B	Braf	100771486	10.89	10.74	9.70	10.53	11.59	10.83	1336.03	1402.75	1219.73	1301.47	1335.13	1301.06
BRCA1 associated protein	Brap	100763856	23.50	22.83	28.80	27.88	26.86	30.33	2217.85	2143.92	2685.39	2621.48	2378.40	2729.24
BRCA1-associated ATM activator 1	Brat1	100761522	5.32	4.53	5.30	4.51	3.77	4.08	566.62	501.44	565.15	489.06	427.45	446.77
breast cancer 1, early onset	Brca1	100770724	46.08	44.42	12.21	16.01	18.23	17.54	8577.48	8452.16	2425.80	3030.58	3451.68	3311.53
breast cancer 2, early onset	Brca2	100689197	5.89	5.58	5.59	7.21	8.44	7.86	1835.81	1779.74	1767.49	2254.10	2634.04	2430.14
BRCA1/BRCA2-containing complex, subunit 3	Brcc3	100756268	12.10	11.43	10.74	11.77	13.46	12.86	909.93	837.26	799.90	897.00	995.66	927.19
bromodomain containing 1	Brd1	100770868	10.67	10.72	9.80	9.46	8.66	8.75	1513.76	1517.13	1408.53	1333.92	1239.91	1273.02
bromodomain containing 2	Brd2	100767103	153.64	152.84	141.92	136.58	104.02	108.71	13733.99	13831.65	12916.46	12428.26	9456.67	9956.10
bromodomain containing 3	Brd3	100768189	20.52	19.94	22.91	20.59	19.54	21.05	3147.53	3080.92	3551.13	3154.58	2997.32	3215.26
bromodomain containing 4	Brd4	100771403	25.62	25.24	22.97	22.30	19.32	19.02	3518.95	3524.71	3207.07	3098.95	2664.05	2598.38
bromodomain containing 7	Brd7	100758832	73.20	72.80	72.77	77.19	70.89	72.84	4577.74	4587.98	4516.23	4690.15	4311.75	4400.42
bromodomain containing 8	Brd8	100774001	6.33	6.65	6.25	7.46	7.58	7.70	762.58	786.93	762.64	849.49	863.18	902.89
bromodomain containing 9	Brd9	100761427	13.29	13.51	14.21	17.28	16.46	15.65	939.55	964.45	1006.09	1204.12	1165.39	1118.80
bromodomain, testis-specific	Brdt	100768519	0.71	0.74	0.68	0.66	0.74	0.58	74.43	88.76	72.04	74.17	80.73	81.32
brain and reproductive organ-expressed (TNFRSF1A modulator)	Bre	100756206	36.59	37.84	35.91	37.81	33.71	36.64	1368.69	1443.92	1334.00	1366.37	1233.70	1284.24

BRF1, RNA polymerase III transcription initiation factor 90 kDa subunit	Brf1	100753600	26.83	26.74	29.73	28.77	21.87	24.34	1804.67	1810.85	2055.65	1948.14	1497.63	1596.42
BRF2, RNA polymerase III transcription initiation factor 50 kDa subunit	Brf2	100769943	9.13	8.05	8.95	8.76	7.70	8.76	508.89	441.05	488.14	478.63	431.59	474.81
brain protein I3	Bri3	100764284	93.01	93.16	132.42	129.33	125.19	131.77	735.23	727.45	988.70	941.04	918.03	977.66
BRI3 binding protein	Bri3bp	100752052	31.23	33.19	38.07	33.71	27.09	28.49	1131.71	1191.37	1367.54	1242.36	1045.34	1101.04
BRICHOS domain containing 5	Bricd5	100757307	2.62	2.79	3.78	4.01	3.20	3.34	281.03	297.39	388.77	398.67	321.88	339.29
bone morphogenetic protein/retinoic acid inducible neural-specific 1	Brinp1	100774741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein/retinoic acid inducible neural-specific 2	Brinp2	100753022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein/retinoic acid inducible neural-specific 3	Brinp3	100774253	0.13	0.21	0.11	0.10	0.12	0.09	11.39	15.56	7.45	6.95	6.21	8.41
BRCA1 interacting protein C-terminal helicase 1	Brip1	100774617	5.21	5.50	2.68	3.46	4.12	3.69	878.03	928.76	465.78	589.89	690.34	628.10
BRX1, biogenesis of ribosomes, homolog (S. cerevisiae)	Brix1	100757120	47.57	48.10	41.10	46.45	48.05	43.30	1726.43	1758.69	1494.23	1639.87	1746.02	1542.20
BRICK1, SCAR/WAVE actin-nucleating complex subunit	Brk1	100758338	87.08	88.86	97.78	95.08	93.98	99.20	3057.15	3131.24	3424.43	3312.19	3261.24	3478.84
breast cancer metastasis suppressor 1	Brms1	100762549	27.87	29.02	31.56	28.24	23.95	27.60	1073.23	1130.07	1214.76	1026.80	906.65	1030.01
breast cancer metastasis-suppressor 1-like	Brms1l	100774936	13.75	14.76	14.10	15.07	15.00	13.13	560.54	565.49	558.94	631.61	669.64	587.91
BRO1 domain and CAAX motif containing	Brox	100772686	37.92	38.65	38.02	41.62	49.92	46.64	3815.93	3928.24	3901.39	4183.70	4978.28	4712.60
bromodomain and PHD finger containing, 1	Brpf1	100754861	10.26	10.47	10.12	9.45	8.17	9.17	1440.85	1452.16	1420.95	1307.26	1163.32	1289.84
bromodomain and PHD finger containing, 3	Brpf3	100759740	16.16	15.91	14.69	12.46	9.55	10.28	2672.82	2647.19	2456.85	2068.67	1568.00	1698.29
bombesin-like receptor 3	Brs3	100763382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BR serine/threonine kinase 1	Brsk1	100772369	0.01	0.02	0.00	0.02	0.00	0.00	0.76	0.92	0.00	2.32	1.03	0.00
BR serine/threonine kinase 2	Brsk2	100769140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bromodomain and WD repeat domain containing 1	Brwd1	100750709	4.22	4.07	4.25	4.52	4.81	4.75	965.37	925.10	981.25	1067.37	1112.61	1108.52
bromodomain and WD repeat domain containing 3	Brwd3	100751005	9.17	8.73	8.02	9.36	10.22	9.31	874.23	831.77	780.03	903.96	965.64	887.00
Berardinelli-Seip congenital lipodystrophy 2 (seipin)	Bscl2	100755147	4.72	4.25	6.25	6.98	5.35	5.05	317.49	294.64	428.52	449.66	357.07	355.17
BSD domain containing 1	Bsdc1	100752123	26.07	25.44	25.54	25.47	23.32	24.91	1822.13	1782.49	1803.51	1763.88	1614.58	1744.09
basigin (Ok blood group)	Bsg	100689246	296.22	290.93	301.87	272.94	224.59	243.10	10516.58	10306.94	10652.14	9470.69	7828.64	8508.30
bassoon presynaptic cytomatrix protein	Bsn	100770905	0.01	0.01	0.00	0.01	0.00	0.00	3.04	1.83	2.48	3.48	2.07	0.00
Bartter syndrome, infantile, with sensorineural deafness (Barttin)	Bsnd	100750920	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-box and SPRY domain containing	Bspry	100756148	0.02	0.01	0.02	0.00	0.02	0.01	1.52	0.92	1.24	0.00	1.03	0.93
bone marrow stromal cell antigen 1	Bst1	100773468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone marrow stromal cell antigen 2	Bst2	100689092	162.82	156.98	160.81	141.35	121.07	140.21	5780.09	5519.48	5670.13	4934.68	4263.11	4931.32
brain-specific homeobox	Bsx	100762865	0.04	0.00	0.00	0.00	0.05	0.05	3.80	6.41	2.48	1.16	2.07	3.74
BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa	Btaf1	100769949	13.93	13.51	13.56	15.94	15.29	14.06	2643.20	2557.52	2586.02	2976.11	2882.44	2666.61

BTB (POZ) domain containing 1	Btbd1	100770759	58.69	59.63	61.34	68.74	67.18	64.53	4536.73	4653.86	4782.03	5335.67	5157.34	4953.75
BTB (POZ) domain containing 10	Btbd10	100751295	16.48	16.81	14.99	16.20	17.99	17.32	1114.24	1184.05	1075.65	1151.97	1299.94	1244.05
BTB (POZ) domain containing 11	Btbd11	100761949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BTB (POZ) domain containing 16	Btbd16	100762672	0.51	0.54	0.06	0.21	0.28	0.13	14.43	15.56	2.48	5.79	6.21	3.74
BTB (POZ) domain containing 17	Btbd17	100761410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BTB (POZ) domain containing 18	Btbd18	100754420	0.15	0.28	0.16	0.20	0.19	0.29	15.19	24.71	14.91	22.02	19.66	26.17
BTB (POZ) domain containing 19	Btbd19	100754188	1.10	1.48	0.83	1.11	1.53	1.49	70.64	86.93	48.44	59.10	81.76	82.25
BTB (POZ) domain containing 2	Btbd2	100759139	13.60	14.26	18.44	14.22	9.72	9.50	872.71	918.69	1176.26	924.82	620.99	607.54
BTB (POZ) domain containing 3	Btbd3	100768764	18.15	17.72	18.91	19.98	19.91	19.36	2337.10	2276.60	2459.33	2584.39	2541.93	2496.50
BTB (POZ) domain containing 6	Btbd6	103161198	25.08	24.01	26.15	26.74	21.89	23.81	1304.13	1249.02	1358.84	1371.00	1131.24	1224.42
BTB (POZ) domain containing 7	Btbd7	100765835	12.59	13.15	12.71	13.41	15.13	14.72	2283.93	2334.25	2280.47	2485.88	2698.21	2650.72
	Btbd9	100756253	15.45	12.69	16.69	15.66	15.84	13.32	539.27	471.24	553.97	531.94	509.21	472.94
betacellulin	Btc	100763277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
biotinidase	Btd	100755324	5.17	4.97	6.55	6.65	7.30	6.77	299.26	279.09	361.45	375.49	406.75	389.76
basic transcription factor 3	Btf3	100756079	639.13	642.74	632.50	628.78	619.04	635.39	14384.91	14677.14	14377.16	13894.29	13767.39	13958.36
basic transcription factor 3-like 4	Btf3l4	100753985	76.32	75.35	67.83	68.96	74.90	72.99	1950.50	1960.92	1755.07	1748.81	1923.00	1832.89
B-cell translocation gene 1, anti-proliferative	Btg1	100755272	41.03	40.36	49.23	53.05	53.10	50.30	1427.93	1409.15	1727.74	1842.68	1821.58	1745.96
BTG family, member 2	Btg2	100766229	0.64	1.32	0.38	0.00	0.08	0.22	10.63	21.96	6.21	3.48	3.10	3.74
BTG family, member 3	Btg3	100753614	45.91	42.79	32.46	37.05	38.80	37.70	1497.81	1386.28	1058.26	1186.73	1249.23	1194.51
B-cell translocation gene 4	Btg4	100770985	0.04	0.10	0.00	0.00	0.12	0.00	0.76	3.66	1.24	0.00	2.07	0.00
Bruton agammaglobulinemia tyrosine kinase	Btk	100772144	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
B and T lymphocyte associated	Btla	100771853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
butyrophilin, subfamily 1, member A1	Btn1a1	100760393	0.00	0.02	0.02	0.02	0.00	0.00	0.76	2.75	1.24	3.48	1.03	0.93
butyrophilin-like 10	Btnl10	100762433	0.00	0.02	0.11	0.05	0.09	0.02	1.52	3.66	6.21	6.95	4.14	3.74
butyrophilin-like 2 (MHC class II associated)	Btnl2	100767924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
butyrophilin-like 9	Btnl9	100770259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-transducin repeat containing E3 ubiquitin protein ligase	Btrc	100750426	10.21	10.60	11.64	10.61	12.16	12.32	651.68	681.70	746.49	667.54	751.40	767.36
BUB1 mitotic checkpoint serine/threonine kinase	Bub1	100772514	14.61	15.70	13.27	16.50	18.13	17.41	1483.38	1590.33	1343.94	1665.37	1840.21	1758.11
BUB1 mitotic checkpoint serine/threonine kinase B	Bub1b	100754771	43.78	46.98	44.16	53.11	57.74	55.61	2207.22	2350.72	2225.82	2621.48	2858.63	2783.45
BUB3 mitotic checkpoint protein	Bub3	100767122	76.34	75.67	69.91	74.36	69.23	73.20	5811.23	5772.03	5345.94	5624.24	5219.44	5549.13
BUD13 homolog (S. cerevisiae)	Bud13	100773647	26.48	26.28	28.72	28.90	30.17	28.90	2182.92	2183.27	2377.35	2378.10	2482.93	2412.38
BUD31 homolog (S. cerevisiae)	Bud31	100774223	119.97	113.36	123.97	128.38	139.29	133.91	2811.05	2721.31	2972.31	2983.06	3233.30	3056.37
blood vessel epicardial substance	Bves	100770468	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
bystin-like	Bysl	100765734	6.90	7.05	6.44	4.78	3.65	3.71	316.73	285.49	285.68	250.33	179.05	216.84
benzodiazepine receptor (peripheral) associated protein 1	Bzrap1	100752521	5.39	5.32	2.19	1.88	1.61	1.78	1149.94	1169.41	504.29	443.87	382.94	413.12
basic leucine zipper and W2 domains 1	Bzw1	100758868	100.94	100.23	89.44	95.37	105.49	97.07	8301.76	8337.79	7432.65	7860.95	8631.79	8041.90
basic leucine zipper and W2 domains 2	Bzw2	100759248	151.58	147.92	144.15	150.58	140.75	146.75	7417.66	7272.69	7071.20	7182.99	6737.76	7052.08
C1D nuclear receptor corepressor	C1d	100689353	41.87	44.66	38.44	42.47	44.61	47.01	1137.03	1241.70	1054.53	1109.09	1190.23	1223.48

core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1	C1galt1	100761169	6.28	5.63	5.80	6.28	6.61	6.41	312.93	278.17	299.34	310.59	327.06	340.22
C1GALT1-specific chaperone 1	C1galt1c1	100751243	22.14	22.13	18.77	20.07	25.68	23.42	865.87	861.96	745.25	777.64	999.80	908.50
complement component 1, q subcomponent, A chain	C1qa	100766409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 1, q subcomponent, B chain	C1qb	100766700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 1, q subcomponent binding protein	C1qbp	100754945	169.30	174.67	184.94	178.25	171.93	172.46	3660.98	3762.62	3951.08	3750.26	3601.75	3595.67
complement component 1, q subcomponent, C chain	C1qc	100769576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 1, q subcomponent-like 1	C1ql1	100765437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
complement component 1, q subcomponent-like 2	C1ql2	100760767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 1, q subcomponent-like 3	C1ql3	100767576	0.82	0.95	1.85	1.84	1.63	1.47	59.24	72.29	136.63	139.07	115.92	111.23
complement component 1, q subcomponent-like 4	C1ql4	100769166	0.09	0.14	0.14	0.23	0.08	0.11	4.56	7.32	4.97	6.95	6.21	4.67
C1q and tumor necrosis factor related protein 1	C1qtnf1	100766965	3.38	3.51	4.20	2.74	2.68	3.05	151.15	157.39	195.01	134.43	127.30	126.18
C1q and tumor necrosis factor related protein 2	C1qtnf2	100765047	1.05	1.05	0.77	0.61	0.80	0.75	35.70	34.77	32.29	19.70	31.05	25.24
C1q and tumor necrosis factor related protein 3	C1qtnf3	100758853	0.02	0.00	0.03	0.03	0.03	0.02	2.28	0.92	1.24	3.48	2.07	3.74
C1q and tumor necrosis factor related protein 4	C1qtnf4	100764222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1q and tumor necrosis factor related protein 5	C1qtnf5	100760072	8.61	9.54	10.05	9.37	6.36	7.16	342.55	366.01	407.40	355.79	227.70	263.58
C1q and tumor necrosis factor related protein 6	C1qtnf6	100750938	0.05	0.06	0.00	0.00	0.00	0.01	4.56	4.58	0.00	0.00	0.00	0.93
C1q and tumor necrosis factor related protein 7	C1qtnf7	100768477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1QTNF9B antisense RNA 1	C1qtnf9b-as1	103161527	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
complement component 1, r subcomponent	C1r	100768476	80.83	82.78	84.45	83.55	73.53	74.90	6466.72	6651.38	6837.69	6680.01	5863.20	5987.49
complement component 1, r subcomponent-like	C1rl	100760066	5.62	5.88	5.50	5.58	4.36	5.52	446.61	479.48	447.15	448.50	360.18	450.51
complement component 1, s subcomponent	C1s	100759777	60.24	62.84	65.25	68.29	72.97	75.88	5275.00	5494.78	5686.27	5873.41	6129.19	6440.81
complement component 2	C2	100759069	0.03	0.00	0.00	0.02	0.00	0.01	2.28	0.00	1.24	1.16	1.03	1.87
C2 calcium-dependent domain containing 2	C2cd2	100762912	6.82	6.86	7.20	7.72	9.35	9.50	1216.78	1221.57	1274.38	1371.00	1646.66	1701.10
C2CD2-like	C2cd2l	100757251	8.29	7.89	9.50	9.54	8.34	8.82	829.42	789.67	953.92	951.47	837.30	868.31
C2 calcium-dependent domain containing 3	C2cd3	100760339	7.40	7.40	8.85	9.09	10.28	10.43	1728.71	1761.44	2087.95	2097.64	2393.92	2459.12
C2 calcium-dependent domain containing 4A	C2cd4a	103159384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2 calcium-dependent domain containing 4C	C2cd4c	100774877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2 calcium-dependent domain containing 5	C2cd5	100766087	12.11	12.53	10.27	11.71	13.28	11.71	1450.72	1518.96	1230.91	1397.66	1606.30	1447.80

complement component 3	C3	100763958	0.10	0.09	0.01	0.06	0.05	0.03	14.43	14.64	2.48	8.11	7.24	4.67
complement component 3a receptor 1	C3ar1	100771140	7.29	7.68	13.26	14.97	15.48	15.78	837.77	882.09	1568.76	1716.36	1798.81	1852.52
complement component 4A (Rodgers blood group)	C4a	100767983	0.32	0.22	0.11	0.11	0.08	0.11	58.48	38.43	23.60	22.02	16.56	19.63
complement component 4 binding protein, beta	C4bpb	100773000	0.20	0.24	0.07	0.25	0.22	0.20	6.08	9.15	1.24	9.27	9.31	8.41
complement component 5a receptor 1	C5ar1	100766822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 5a receptor 2	C5ar2	100766530	0.24	0.19	0.19	0.10	0.02	0.04	11.39	10.07	8.69	4.64	2.07	1.87
complement component 6	C6	100766699	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	2.07	0.93
complement component 7	C7	100769002	0.14	0.08	0.14	0.14	0.23	0.21	14.43	7.32	16.15	18.54	23.80	18.69
complement component 8, alpha polypeptide	C8a	100774244	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 8, beta polypeptide	C8b	100773949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component 8, gamma polypeptide	C8g	100763555	0.22	0.29	0.33	0.34	0.51	0.35	18.99	21.96	31.05	26.66	38.29	26.17
complement component 9	C9	100774096	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit I	COX1	3979185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit II	COX2	3979186	0.00	0.00	0.00	0.00	0.00	0.00						
cytochrome c oxidase subunit III	COX3	3979189	0.00	0.00	0.00	0.00	0.00	0.00						
cytochrome b	CYTB	3979182	0.00	0.00	0.00	0.00	0.00	0.00						
carbonic anhydrase I	Ca1	100772227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase X	Ca10	100760776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase XI	Ca11	100750594	0.07	0.06	0.04	0.00	0.03	0.06	3.80	2.75	3.73	0.00	3.10	1.87
carbonic anhydrase XII	Ca12	100772435	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.92	0.00	1.16	1.03	0.00
carbonic anhydrase XIII	Ca13	100771949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase XIV	Ca14	100760677	1.07	0.81	1.25	1.04	1.30	1.18	55.45	38.43	68.31	56.79	64.17	73.84
carbonic anhydrase II	Ca2	100774844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase III, muscle specific	Ca3	100774549	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase IV	Ca4	100760390	0.23	0.03	0.05	0.04	0.00	0.04	6.08	0.92	1.24	1.16	0.00	0.93
carbonic anhydrase VA, mitochondrial	Ca5a	100755419	0.02	0.00	0.00	0.00	0.00	0.00	5.32	6.41	1.24	6.95	1.03	1.87
carbonic anhydrase VB, mitochondrial	Ca5b	100768750	6.42	5.76	4.44	5.11	7.68	6.66	262.04	250.72	171.41	199.33	299.11	259.84
carbonic anhydrase VI	Ca6	100754196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase VII	Ca7	100769849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase IX	Ca9	100756257	2.35	2.16	2.29	2.48	2.63	2.15	170.90	165.62	156.50	170.36	173.88	143.00
caspase activity and apoptosis inhibitor 1	Caap1	100766887	14.58	14.66	16.75	17.04	18.74	18.08	745.11	768.63	871.94	880.78	952.19	953.36
calcium binding protein 39	Cab39	100772119	38.55	39.59	40.50	45.04	44.73	42.06	3791.62	3937.39	4031.81	4418.96	4352.12	4132.17
calcium binding protein 39-like	Cab39l	100764345	22.89	22.94	21.65	23.24	22.00	23.69	982.84	987.32	953.92	998.99	941.84	1008.51
calcineurin binding protein 1	Cabin1	100764877	13.56	12.59	14.68	13.41	11.17	11.64	2975.87	2804.58	3277.87	2966.83	2504.67	2550.71
Cdk5 and Abl enzyme substrate 1	Cables1	100752271	2.06	2.05	2.57	2.73	2.66	2.66	112.41	109.80	137.87	158.77	151.11	143.94
Cdk5 and Abl enzyme substrate 2	Cables2	100765141	21.90	21.21	22.75	22.48	22.35	23.27	1734.79	1705.62	1827.11	1791.69	1744.99	1833.82

calcium binding protein 1	Cabp1	100756642	0.20	0.21	0.22	0.13	0.20	0.04	6.84	10.07	8.69	4.64	7.24	3.74
calcium binding protein 2	Cabp2	100757813	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
calcium binding protein 4	Cabp4	100759357	0.30	0.29	0.29	0.22	0.24	0.31	27.34	21.96	22.36	16.22	15.52	25.24
calcium binding protein 5	Cabp5	100753677	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium binding protein 7	Cabp7	100753424	0.00	0.00	0.00	0.00	0.00	0.00	2.28	2.75	0.00	1.16	0.00	0.00
calcium-binding protein, spermatid-specific 1	Cabs1	100768190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium binding tyrosine-(Y)-phosphorylation regulated	Cabyr	100753647	0.35	0.40	0.56	0.33	0.54	0.48	24.31	25.62	32.29	28.97	36.22	38.32
calcium channel flower domain containing 1	Cacfd1	100769716	11.53	11.65	11.31	10.86	10.75	12.35	767.13	770.46	746.49	719.69	711.04	810.36
cache domain containing 1	Cachd1	100756408	19.34	18.87	19.79	21.36	20.12	21.03	2649.27	2640.79	2798.42	2942.50	2833.79	2884.39
calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	Cacna1a	100758171	0.00	0.00	0.02	0.00	0.01	0.00	3.80	5.49	8.69	5.79	8.28	4.67
calcium channel, voltage-dependent, N type, alpha 1B subunit	Cacna1b	100770495	0.11	0.04	0.00	0.01	0.00	0.08	8.35	10.07	0.00	1.16	0.00	2.80
calcium channel, voltage-dependent, L type, alpha 1C subunit	Cacna1c	100754788	3.85	2.92	3.40	3.57	3.01	3.20	492.18	398.95	460.81	502.97	439.87	430.88
calcium channel, voltage-dependent, L type, alpha 1D subunit	Cacna1d	100772497	0.01	0.01	0.00	0.00	0.01	0.01	1.52	1.83	0.00	1.16	1.03	1.87
calcium channel, voltage-dependent, R type, alpha 1E subunit	Cacna1e	100773594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, L type, alpha 1F subunit	Cacna1f	100757994	0.08	0.03	0.02	0.03	0.01	0.05	98.74	84.18	80.74	91.55	82.80	85.99
calcium channel, voltage-dependent, T type, alpha 1G subunit	Cacna1g	100761932	0.89	1.00	0.18	0.18	0.15	0.15	208.11	240.65	45.96	45.20	36.22	33.65
calcium channel, voltage-dependent, T type, alpha 1H subunit	Cacna1h	100762221	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, T type, alpha 1I subunit	Cacna1i	100769169	0.10	0.08	0.02	0.00	0.00	0.03	12.15	9.15	4.97	0.00	1.03	1.87
calcium channel, voltage-dependent, L type, alpha 1S subunit	Cacna1s	100765508	0.03	0.04	0.00	0.01	0.00	0.02	1.52	4.58	0.00	1.16	2.07	0.93
calcium channel, voltage-dependent, alpha 2/delta subunit 1	Cacna2d1	100764769	15.87	16.01	17.55	19.59	20.85	20.31	3139.94	3182.49	3520.07	3868.47	4107.86	4019.08
calcium channel, voltage-dependent, alpha 2/delta subunit 2	Cacna2d2	100769472	0.55	0.43	0.67	0.75	0.77	0.73	87.35	66.80	104.34	119.37	117.99	111.23
calcium channel, voltage-dependent, alpha 2/delta subunit 3	Cacna2d3	100753384	0.00	0.00	0.00	0.01	0.00	0.00	33.42	32.03	14.91	25.50	1.03	1.87
calcium channel, voltage-dependent, alpha 2/delta subunit 4	Cacna2d4	100755076	0.01	0.01	0.00	0.00	0.00	0.00	2.28	1.83	0.00	1.16	3.10	0.93
calcium channel, voltage-dependent, beta 1 subunit	Cacnb1	100757399	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, beta 2 subunit	Cacnb2	100774766	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	3.73	2.32	3.10	4.67
calcium channel, voltage-dependent, beta 3 subunit	Cacnb3	100768080	6.71	5.75	10.90	9.90	9.24	9.28	505.85	448.37	811.08	742.87	681.02	705.68
calcium channel, voltage-dependent, beta 4 subunit	Cacnb4	100765888	0.37	0.22	0.13	0.09	0.11	0.12	18.23	16.47	9.94	8.11	8.28	7.48
calcium channel, voltage-dependent, gamma subunit 1	Cacng1	100766592	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, gamma subunit 2	Cacng2	100769826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

calcium channel, voltage-dependent, gamma subunit 3	Cacng3	100760631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, gamma subunit 4	Cacng4	100771968	0.42	0.41	0.15	0.14	0.16	0.09	169.38	135.42	136.63	124.00	75.55	92.53
calcium channel, voltage-dependent, gamma subunit 5	Cacng5	100766301	0.00	0.05	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, gamma subunit 6	Cacng6	100763524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium channel, voltage-dependent, gamma subunit 7	Cacng7	100763239	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cactin, spliceosome C complex subunit	Cactin	100771890	19.57	19.29	15.50	8.95	6.13	5.96	1505.41	1499.74	1228.42	698.83	485.41	482.29
CDK2-associated, cullin domain 1	Cacul1	100751838	13.38	12.88	13.09	12.68	15.04	14.65	1042.85	1001.05	1030.93	993.19	1184.02	1149.64
calcyclin binding protein	Cacybp	100752498	172.58	177.08	211.70	217.38	209.98	196.74	5824.15	5938.57	7173.05	7243.25	7074.13	6589.42
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	Cad	100689232	26.19	25.29	26.75	22.40	16.27	17.05	5703.38	5491.12	5840.29	4808.36	3503.43	3691.01
cell adhesion molecule 1	Cadm1	100766050	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cell adhesion molecule 2	Cadm2	100773220	0.09	0.15	0.05	0.02	0.09	0.08	3.80	8.24	1.24	1.16	7.24	2.80
cell adhesion molecule 3	Cadm3	100757404	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca++-dependent secretion activator	Cadps	100761643	1.35	1.24	3.63	4.23	3.74	3.65	183.05	176.60	499.32	592.21	515.42	504.72
Ca++-dependent secretion activator 2	Cadps2	100752027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cancer antigen 1	Cage1	100765629	0.29	0.25	0.39	0.40	0.41	0.36	82.03	75.03	91.91	84.60	83.83	83.19
calbindin 1, 28kDa	Calb1	100751076	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
calbindin 2	Calb2	100754392	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium binding and coiled-coil domain 1	Calcoco1	100768405	32.00	29.73	38.47	35.49	35.55	39.66	1588.96	1487.84	1947.59	1774.31	1790.53	2003.00
calcium binding and coiled-coil domain 2	Calcoco2	100752435	64.05	63.81	51.38	55.32	61.04	61.02	4615.72	4577.91	3698.93	3943.80	4361.43	4342.48
calcitonin receptor	Calcr	100765683	1.06	1.33	0.13	0.08	0.07	0.14	129.88	169.28	19.87	15.07	11.38	22.43
calcitonin receptor-like	Calcrl	100753229	0.05	0.01	0.00	0.07	0.05	0.12	6.84	1.83	0.00	9.27	7.24	16.82
caldesmon 1	Cald1	100763421	39.67	41.14	36.99	37.63	38.52	36.56	4670.41	4867.98	4426.80	4460.68	4562.22	4357.43
calcium homeostasis modulator 1	Calhm1	100753669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
calcium homeostasis modulator 2	Calhm2	100753368	5.08	4.95	5.37	3.81	3.67	3.73	560.54	547.19	598.69	478.63	431.59	443.03
calcium homeostasis modulator 3	Calhm3	100753966	0.76	0.75	0.60	0.88	0.72	0.74	67.60	63.14	52.17	77.65	69.34	68.23
calmodulin 1 (phosphorylase kinase, delta)	Calm1	100771772	92.08	96.47	97.70	107.57	111.02	101.95	6135.56	6424.45	6452.64	7055.50	7270.78	6724.95
calmodulin 2 (phosphorylase kinase, delta)	Calm2	100765281	367.75	377.89	327.37	362.56	401.84	390.91	9798.82	10074.52	8754.23	9536.75	10578.60	10319.69
calmodulin 3 (phosphorylase kinase, delta)	Calm3	100762749	39.57	43.65	41.74	36.02	32.03	32.70	893.22	1002.88	941.50	735.91	592.01	622.49
calmodulin-like 3	Calml3	100766751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calmodulin-like 4	Calml4	100757500	0.00	0.13	0.18	0.00	0.00	0.07	0.76	3.66	3.73	1.16	0.00	0.93
calmodulin-like 5	Calml5	100767046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
calmodulin	Calmodulin	100751524	33.32	31.02	29.27	29.96	25.90	30.94						

calmodulin	Calmodulin	100759184	0.00	0.00	0.00	0.00	0.00	0.00	50.89	44.84	57.14	61.42	62.10	54.21
calneuron 1	Caln1	100751134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calreticulin	Calr	100689096	782.44	832.21	977.39	998.90	1016.45	1002.67	30877.55	32555.98	38464.95	38345.18	37613.47	38013.02
calreticulin 3	Calr3	100759217	1.96	2.11	1.06	1.29	1.08	1.41	88.11	95.16	47.20	60.26	45.54	64.49
calumenin	Calu	100750933	164.39	174.08	174.56	192.29	211.21	209.25	13447.64	14333.09	14428.08	15792.60	17180.77	17096.98
calcyon neuron-specific vesicular protein	Caly	100772099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium/calmodulin-dependent protein kinase I	Camk1	100755149	32.24	30.84	38.52	36.13	33.11	35.43	1939.86	1902.35	2399.71	2170.66	2022.36	2077.77
calcium/calmodulin-dependent protein kinase ID	Camk1d	100772409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
calcium/calmodulin-dependent protein kinase IG	Camk1g	100763374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium/calmodulin-dependent protein kinase II alpha	Camk2a	100765253	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium/calmodulin-dependent protein kinase II beta	Camk2b	100769205	0.04	0.02	0.06	0.05	0.00	0.06	2.28	1.83	2.48	2.32	0.00	1.87
calcium/calmodulin-dependent protein kinase II gamma	Camk2g	100763272	21.06	20.63	21.74	22.55	21.83	22.44	2228.49	2242.75	2362.45	2416.35	2339.07	2403.04
calcium/calmodulin-dependent protein kinase II inhibitor 2	Camk2n2	100750713	13.25	12.04	9.74	1.05	0.83	1.63	39.50	49.41	36.02	12.75	4.14	8.41
calcium/calmodulin-dependent protein kinase IV	Camk4	100774010	0.08	0.02	0.03	0.00	0.02	0.00	5.32	0.92	1.24	0.00	1.03	0.00
calcium/calmodulin-dependent protein kinase kinase 1, alpha	Camkk1	100768559	0.92	0.89	1.41	0.85	0.81	0.91	46.33	45.75	73.28	49.83	42.43	49.54
calcium/calmodulin-dependent protein kinase kinase 2, beta	Camkk2	100765904	10.79	11.41	11.42	10.50	8.91	9.01	1247.16	1304.84	1412.25	1347.82	1248.19	1273.02
calmodulin-lysine N-methyltransferase	Camkmt	100766475	6.29	6.49	6.55	7.59	8.66	7.59	324.32	336.73	356.48	385.92	438.83	386.95
CaM kinase-like vesicle-associated	Camkv	100770335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium modulating ligand	Camlg	100769365	163.66	165.29	180.46	173.53	165.43	164.68	5654.01	5763.80	6349.55	6017.11	5725.54	5700.55
cathelicidin antimicrobial peptide	Camp	100767672	0.66	0.41	0.44	0.43	0.41	0.55	27.34	24.71	24.84	28.97	23.80	29.91
calmodulin regulated spectrin-associated protein 1	Camsap1	100760053	11.70	11.70	11.41	11.65	10.10	10.51	2074.30	2090.85	2043.23	2102.28	1827.79	1905.79
calmodulin regulated spectrin-associated protein family, member 2	Camsap2	100758440	13.78	14.84	13.81	15.74	17.51	17.02	2445.72	2646.28	2515.23	2816.18	3056.31	2960.10
calmodulin regulated spectrin-associated protein family, member 3	Camsap3	100772080	3.98	4.08	2.47	2.37	0.95	0.86	596.24	618.56	380.08	360.42	149.04	135.53
calmodulin binding transcription activator 1	Camta1	103164264	3.84	3.59	3.55	3.70	3.86	3.50	413.19	390.72	366.42	389.40	400.54	384.15
calmodulin binding transcription activator 2	Camta2	100772126	1.95	1.55	1.84	2.24	1.62	1.82	232.42	195.82	229.79	264.23	201.82	228.99
cullin-associated and neddylation-dissociated 1	Cand1	100768210	31.02	30.39	34.29	37.12	39.32	38.06	6463.68	6342.10	7221.49	7698.70	8131.89	7940.95
cullin-associated and neddylation-dissociated 2 (putative)	Cand2	100770365	3.68	3.74	4.63	3.34	2.63	3.06	439.01	444.71	555.21	407.94	308.43	379.48
calcium activated nucleotidase 1	Cant1	100767250	35.52	34.28	42.39	33.23	29.20	31.08	2788.27	2698.43	3341.21	2595.98	2268.69	2438.55
calnexin	Canx	100689345	219.14	228.34	238.27	255.36	256.27	256.31	19425.22	20039.23	21315.45	22554.90	23343.08	23219.06
CAP, adenylate cyclase-associated protein 1 (yeast)	Cap1	100774682	115.42	116.42	113.44	104.85	109.33	114.76	7338.67	7473.99	7240.12	6634.82	6905.43	7292.29
CAP, adenylate cyclase-associated protein, 2 (yeast)	Cap2	100766472	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

capping protein (actin filament), gelsolin-like	Capg	100774775	183.83	184.27	174.62	146.87	119.54	123.65	6921.68	6940.53	6523.44	5508.35	4566.36	4759.34
calpain 1, (mu/I) large subunit	Capn1	100758636	12.13	13.30	17.21	17.36	15.14	16.21	1136.27	1232.55	1607.26	1623.65	1406.55	1555.29
calpain 10	Capn10	100752300	10.50	9.66	11.31	10.39	8.74	10.29	946.39	851.90	1029.69	946.84	817.64	984.21
calpain 11	Capn11	100755371	0.04	0.07	0.00	0.02	0.07	0.00	3.80	8.24	2.48	3.48	5.17	0.93
calpain 12	Capn12	100767183	0.15	0.15	0.04	0.02	0.12	0.05	6.84	5.49	1.24	1.16	3.10	0.93
calpain 13	Capn13	100760070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calpain 15	Capn15	100763096	3.27	3.49	3.92	3.04	1.51	1.94	381.29	399.87	448.39	326.82	166.63	214.97
calpain 2, (m/II) large subunit	Capn2	100771239	62.73	59.59	55.80	56.70	59.78	62.38	6265.44	6136.21	5625.41	5648.58	6036.04	6169.75
calpain 3, (p94)	Capn3	100758723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calpain 5	Capn5	100768370	7.95	7.50	8.91	8.67	9.67	9.21	822.58	799.74	950.20	919.02	1026.71	979.53
calpain 6	Capn6	100773921	0.03	0.04	0.00	0.02	0.06	0.04	2.28	3.66	0.00	1.16	4.14	2.80
calpain 7	Capn7	100766061	15.99	16.71	15.52	17.29	17.38	15.74	1783.40	1859.35	1706.63	1916.85	1915.76	1732.88
calpain 8	Capn8	100771531	1.17	1.05	0.60	0.86	0.77	0.64	120.01	123.53	57.14	69.54	80.73	68.23
calpain 9	Capn9	100766480	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
calpain, small subunit 1	Capns1	100770160	162.74	156.39	147.34	151.99	157.01	170.02	4322.54	4272.29	3972.19	4026.09	4280.70	4557.45
calpain, small subunit 2	Capns2	100772425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell cycle associated protein 1	Caprin1	100756029	197.98	199.98	207.00	213.60	219.66	214.72	22033.47	22224.33	23038.23	23502.90	24034.45	23700.42
caprin family member 2	Caprin2	100762439	3.60	3.60	4.47	5.15	5.31	4.76	226.34	223.27	273.26	302.48	320.85	274.79
calcyphosine	Caps	100759707	0.21	0.11	0.18	0.13	0.11	0.09	10.63	7.32	11.18	6.95	2.07	3.74
calcyphosine 2	Caps2	100760290	0.74	0.69	0.25	0.48	0.37	0.42	64.56	62.22	19.87	44.04	33.12	36.45
calcyphosine-like	Capsl	100757989	0.07	0.21	0.00	0.15	0.05	0.04	1.52	4.58	0.00	3.48	1.03	0.93
capping protein (actin filament) muscle Z-line, alpha 1	Capza1	100750522	96.23	101.23	97.20	98.14	115.87	114.42	8399.74	8797.13	8433.77	8477.50	9930.69	9832.73
capping protein (actin filament) muscle Z-line, alpha 2	Capza2	100753621	101.48	101.90	80.98	89.62	103.47	97.89	7704.01	7688.11	6168.20	6668.42	7734.45	7347.44
capping protein (actin filament) muscle Z-line, alpha 3	Capza3	100753734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
capping protein (actin filament) muscle Z-line, beta	Capzb	100755876	180.26	172.93	176.96	181.96	184.33	185.15	6533.56	6412.55	6527.17	6533.99	6727.41	6673.54
caspase recruitment domain family, member 10	Card10	100762588	13.08	11.87	6.48	5.18	5.89	6.32	1581.36	1457.65	781.27	629.29	698.62	751.47
caspase recruitment domain family, member 11	Card11	100769055	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	1.24	0.00	0.00	0.93
caspase recruitment domain family, member 14	Card14	100757428	3.04	3.14	3.78	3.75	3.72	4.14	301.54	322.09	372.63	323.34	301.18	354.24
caspase recruitment domain family, member 6	Card6	100769285	2.82	2.92	3.40	4.03	4.33	4.31	284.83	291.90	344.06	403.30	436.76	434.62
caspase recruitment domain family, member 9	Card9	100759255	0.09	0.05	0.07	0.14	0.10	0.07	13.67	10.07	7.45	16.22	11.38	10.28
calcium responsive transcription factor	Carf	100768109	2.23	2.31	2.25	2.67	2.86	2.05	268.12	283.66	280.71	330.29	337.41	259.84
calcium regulated heat stable protein 1, 24kDa	Carhsp1	100764910	8.86	8.86	8.08	7.42	7.97	8.19	751.94	750.33	688.12	626.98	668.60	696.33

carbohydrate kinase domain containing	Carkd	100767494	23.98	23.62	23.80	20.59	18.02	17.96	950.94	937.91	955.16	841.38	735.88	742.13
coactivator-associated arginine methyltransferase 1	Carm1	100771088	89.92	85.15	80.29	75.22	65.09	71.48	5737.56	5481.97	5219.25	4968.29	4383.17	4691.11
carnosine synthase 1	Carns1	100765077	0.64	0.73	0.89	0.53	0.33	0.53	113.93	120.78	124.21	114.73	65.20	97.21
cysteinyl-tRNA synthetase	Cars	100761418	45.76	45.13	49.83	51.00	46.25	46.37	3954.92	3969.42	4347.30	4296.12	3891.55	3866.73
cysteinyl-tRNA synthetase 2, mitochondrial (putative)	Cars2	100765566	4.26	4.14	4.14	3.19	3.62	3.43	262.80	257.12	265.81	223.67	230.80	233.67
CART prepropeptide	Cartpt	100757030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cancer susceptibility candidate 1	Casc1	100765214	2.42	2.64	2.64	3.01	3.62	3.22	236.22	245.23	233.51	261.92	315.67	288.81
cancer susceptibility candidate 3	Casc3	100773741	52.39	52.85	33.78	36.95	35.03	37.21	5670.72	5772.95	3725.02	4024.93	3781.84	4071.42
cancer susceptibility candidate 4	Casc4	100765980	11.22	11.70	11.59	13.87	15.01	13.96	1150.70	1215.16	1186.19	1412.72	1527.64	1427.24
cancer susceptibility candidate 5	Casc5	100755881	6.75	6.49	5.92	6.93	8.76	7.72	1306.41	1245.36	1140.24	1371.00	1690.13	1480.52
CAS1 domain containing 1	Casd1	100766850	7.95	8.67	8.52	10.08	11.19	10.57	852.96	942.48	924.11	1076.64	1191.27	1130.02
calcium/calmodulin-dependent serine protein kinase (MAGUK family)	Cask	100764902	11.16	11.08	11.55	12.90	12.08	11.65	1310.96	1330.46	1371.26	1495.01	1437.60	1373.03
CASK interacting protein 1	Caskin1	100769762	0.01	0.01	0.00	0.00	0.01	0.00	1.52	0.92	0.00	0.00	2.07	0.00
CASK interacting protein 2	Caskin2	100769048	5.29	5.65	5.29	4.16	2.96	3.50	865.87	930.59	854.56	653.63	482.30	567.34
caspase 1, apoptosis-related cysteine peptidase	Casp1	100759171	0.12	0.05	0.05	0.02	0.09	0.17	9.11	5.49	3.73	1.16	6.21	14.02
caspase 14, apoptosis-related cysteine peptidase	Casp14	100771116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
caspase 16, apoptosis-related cysteine peptidase (putative)	Casp16	100773249	0.02	0.10	0.07	0.03	0.03	0.02	2.28	10.07	8.69	6.95	5.17	5.61
caspase 2, apoptosis-related cysteine peptidase	Casp2	100689445	7.86	7.11	8.30	8.51	8.52	8.55	306.85	284.58	327.91	315.23	314.64	336.48
caspase 3, apoptosis-related cysteine peptidase	Casp3	100689061	15.22	15.96	16.25	19.56	20.63	21.46	994.24	1037.65	1153.90	1220.34	1369.29	1317.88
caspase 6, apoptosis-related cysteine peptidase	Casp6	100766458	8.60	7.50	5.49	5.59	6.06	6.01	484.59	430.98	308.04	321.02	339.48	322.46
caspase 7, apoptosis-related cysteine peptidase	Casp7	100766857	23.65	24.72	26.62	25.49	27.95	28.56	1599.59	1687.32	1789.85	1708.25	1819.51	1878.69
caspase 8, apoptosis-related cysteine peptidase	Casp8	100689369	35.74	38.29	44.38	46.32	44.05	44.30	1929.23	2093.60	2405.92	2569.33	2409.45	2412.38
caspase 8 associated protein 2	Casp8ap2	100773754	7.61	6.28	6.35	9.08	10.24	9.86	657.76	709.15	689.36	930.61	973.92	921.58
calsequestrin 1 (fast-twitch, skeletal muscle)	Casq1	100762901	0.22	0.14	0.21	0.20	0.26	0.14	15.95	10.98	16.15	15.07	18.63	11.22
calsequestrin 2 (cardiac muscle)	Casq2	100752020	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
calcium-sensing receptor	Casr	100766791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cas scaffolding protein family member 4	Cass4	100764252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calpastatin	Cast	100761152	37.99	37.72	31.73	37.57	43.02	40.09	4655.98	4732.55	3962.26	4606.71	5116.97	4751.86
castor zinc finger 1	Casz1	100770088	0.01	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
catalase	Cat	100773774	33.84	31.88	33.36	34.28	34.43	34.62	1994.55	1878.56	1956.29	2028.11	2094.81	2061.88
ciliogenesis associated TTC17 interacting protein	Catip	100751611	0.03	0.02	0.03	0.05	0.05	0.08	2.28	1.83	2.48	2.32	2.07	6.54
cation channel, sperm associated 1	Catsper1	100769314	0.09	0.07	0.10	0.00	0.14	0.05	4.56	8.24	9.94	3.48	9.31	5.61

cation channel, sperm associated 2	Catsper 2	100766859	2.31	2.25	2.27	1.93	1.83	1.77	257.48	258.04	280.71	290.89	276.34	268.25
cation channel, sperm associated 3	Catsper 3	100762411	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cation channel, sperm associated 4	Catsper 4	100771423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
catsper channel auxiliary subunit beta	Catsper b	100751204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
catsper channel auxiliary subunit delta	Catsper d	100771676	0.27	0.28	0.25	0.38	0.35	0.41	47.09	45.75	55.89	69.54	68.31	66.36
catsper channel auxiliary subunit gamma	Catsper g	100764558	0.52	0.42	0.43	0.60	0.56	0.47	89.63	70.46	70.80	93.87	81.76	79.45
caveolin 1, caveolae protein, 22kDa	Cav1	100753021	170.46	177.22	171.94	196.07	239.93	233.66	11772.86	12284.33	11969.99	13559.36	16466.63	16194.09
caveolin 2	Cav2	100751645	16.27	16.90	15.92	16.64	22.94	19.23	875.75	926.93	855.80	901.64	1278.21	1069.26
caveolin 3	Cav3	100773488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
core-binding factor, runt domain, alpha subunit 2; translocated to, 2	Cbfa2t2	100773698	11.28	11.56	12.76	13.20	13.17	13.21	2003.66	2053.34	2275.50	2350.29	2328.72	2341.35
core-binding factor, runt domain, alpha subunit 2; translocated to, 3	Cbfa2t3	100764900	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
core-binding factor, beta subunit	Cbfb	100765267	34.57	38.05	36.89	36.11	40.21	40.34	2564.96	2796.34	2732.59	2671.31	2960.06	2972.25
Cbl proto-oncogene, E3 ubiquitin protein ligase	Cbl	100754737	17.10	16.33	14.59	16.74	17.56	18.71	2040.12	1975.56	1772.46	2024.63	2127.93	2266.57
Cbl proto-oncogene B, E3 ubiquitin protein ligase	Cblb	100774600	4.50	4.19	4.04	4.27	4.76	4.85	565.10	531.63	514.22	531.94	581.66	607.54
Cbl proto-oncogene C, E3 ubiquitin protein ligase	Cblc	100751369	0.02	0.00	0.00	0.04	0.03	0.00	0.76	0.00	1.24	1.16	1.03	0.00
Cbl proto-oncogene-like 1, E3 ubiquitin protein ligase	Cbll1	100758211	6.28	5.91	5.34	5.10	5.41	5.60	720.80	686.28	614.83	594.53	623.06	649.60
cerebellin 1 precursor	Cbln1	100760568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cerebellin 2 precursor	Cbln2	100753954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cerebellin 3 precursor	Cbln3	100756636	0.06	0.00	0.20	0.00	0.00	0.16	1.52	0.00	2.48	0.00	0.00	1.87
cerebellin 4 precursor	Cbln4	100761933	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
carbonyl reductase 3	Cbr3	100689021	15.70	16.63	19.15	16.56	13.67	14.69	494.46	522.48	606.14	519.20	426.41	475.75
carbonyl reductase 4	Cbr4	100758439	10.93	13.12	9.45	10.29	11.17	10.52	356.22	424.58	311.76	336.09	378.80	340.22
cystathionine-beta-synthase	Cbs	100762141	0.01	0.01	0.00	0.00	0.02	0.03	4.56	5.49	3.73	4.64	8.28	11.22
chromobox homolog 1	Cbx1	100689359	55.91	59.59	42.16	45.69	46.54	46.75	2201.14	2385.49	1659.43	1798.64	1837.10	1847.84
chromobox homolog 2	Cbx2	100755979	9.29	9.22	15.66	15.85	14.62	15.18	991.96	975.43	1674.33	1683.91	1542.13	1600.15
chromobox homolog 3	Cbx3	100689443	67.80	68.19	88.24	91.09	109.15	108.15	2457.87	2486.15	3267.93	3377.09	3967.10	3891.96
chromobox homolog 4	Cbx4	100756554	3.23	3.45	3.54	2.30	2.13	1.88	310.65	326.67	337.85	228.31	200.79	182.26
chromobox homolog 5	Cbx5	100689287	121.72	123.03	124.57	125.10	135.09	140.59	2628.01	2653.60	2696.57	2641.18	2848.28	2965.71
chromobox homolog 6	Cbx6	103161880	49.14	48.97	55.84	49.45	46.44	50.87	7274.11	7281.84	8341.86	7354.51	6885.76	7605.41
chromobox homolog 7	Cbx7	100750509	2.56	2.47	2.22	2.38	2.30	2.16	225.58	214.12	188.80	203.97	202.86	186.93
chromobox homolog 8	Cbx8	100756264	3.24	3.19	3.69	2.97	2.72	3.29	287.87	281.83	327.91	267.71	252.54	297.22
chibby homolog 1 (Drosophila)	Cby1	100774410	10.95	11.84	13.69	13.84	15.92	17.23	591.68	653.33	742.77	760.25	858.00	939.34
coiled-coil and C2 domain containing 1A	Cc2d1a	100767087	5.46	5.56	7.87	6.07	4.72	5.36	637.25	641.44	859.52	694.19	535.09	607.54
coiled-coil and C2 domain containing 1B	Cc2d1b	100754941	15.01	14.91	15.33	14.44	13.31	14.35	2577.88	2571.24	2653.10	2487.04	2272.83	2432.01
coiled-coil and C2 domain containing 2A	Cc2d2a	100767719	6.56	6.32	5.51	6.02	6.91	7.60	1101.33	1094.38	927.84	1010.58	1161.25	1247.78

coiled-coil and C2 domain containing 2B	Cc2d2b	100763170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell division cycle and apoptosis regulator 1	Ccar1	100767167	45.31	43.08	35.93	40.57	40.19	40.29	5715.53	5557.91	4654.10	5254.54	5223.58	5118.25
cell cycle and apoptosis regulator 2	Ccar2	100769631	25.67	24.70	26.46	22.95	19.08	20.79	2727.51	2639.87	2887.85	2522.97	2171.40	2397.43
collagen and calcium binding EGF domains 1	Ccbe1	100754816	41.85	41.48	33.72	35.23	33.26	33.23	4762.31	4768.24	3910.09	4060.86	3846.01	3832.15
cysteine conjugate-beta lyase, cytoplasmic	Ccbl1	100769821	11.36	9.79	20.59	19.03	14.30	14.88	648.65	581.05	1152.66	1043.03	814.53	844.01
cysteine conjugate-beta lyase 2	Ccbl2	100771070	45.89	42.14	55.40	54.79	70.82	61.66	1089.18	1084.31	1413.49	1288.72	1713.94	1466.50
coiled-coil domain containing 101	Ccdc101	100769355	13.92	12.29	15.83	15.65	12.01	11.41	525.60	487.71	612.35	577.14	466.78	454.25
coiled-coil domain containing 102A	Ccdc102a	100766334	20.80	19.70	18.81	15.46	11.18	12.28	916.76	870.20	817.29	673.33	488.51	528.09
coiled-coil domain containing 103	Ccdc103	100758187	7.04	7.69	6.90	6.25	7.12	8.07	182.29	195.82	176.38	164.57	202.86	214.04
coiled-coil domain containing 104	Ccdc104	100766513	66.24	68.43	73.67	80.00	90.41	79.02	2501.16	2568.50	2728.86	2958.72	3331.62	2947.95
coiled-coil domain containing 105	Ccdc105	100751575	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 107	Ccdc107	100773807	6.76	7.41	6.36	6.78	6.23	6.63	123.05	136.34	115.51	135.59	129.37	121.51
coiled-coil domain containing 108	Ccdc108	100750413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 109B	Ccdc109b	100765870	35.58	40.36	39.33	40.99	49.75	46.57	1088.42	1194.12	1160.11	1190.21	1476.93	1382.38
coiled-coil domain containing 11	Ccdc11	100763503	0.04	0.02	0.03	0.00	0.00	0.00	3.04	1.83	1.24	0.00	3.10	0.00
coiled-coil domain containing 110	Ccdc110	100771325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
coiled-coil domain containing 112	Ccdc112	100759442	6.39	5.85	5.39	6.31	6.91	5.92	408.63	370.59	349.03	391.71	442.97	372.93
coiled-coil domain containing 113	Ccdc113	100760328	0.04	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 114	Ccdc114	100751784	2.16	2.74	2.28	2.08	1.89	1.67	155.71	192.16	160.23	148.34	163.53	142.07
coiled-coil domain containing 115	Ccdc115	100773635	21.61	21.91	21.17	17.14	13.94	14.79	738.27	727.45	752.70	665.22	611.68	649.60
coiled-coil domain containing 116	Ccdc116	100754886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 117	Ccdc117	100751075	21.38	22.04	24.77	26.49	30.28	28.93	1981.64	2041.44	2333.88	2455.75	2795.50	2686.24
coiled-coil domain containing 12	Ccdc12	100766224	21.45	21.70	21.43	21.80	14.48	17.61	446.61	443.79	443.43	428.80	290.83	353.31
coiled-coil domain containing 120	Ccdc120	100760495	5.96	6.07	4.98	4.58	5.01	5.23	719.28	737.52	602.41	536.58	595.12	616.88
coiled-coil domain containing 121	Ccdc121	100762691	0.00	0.00	0.00	0.00	0.11	0.00	0.76	0.92	0.00	0.00	4.14	0.00
coiled-coil domain containing 122	Ccdc122	100770045	9.29	9.63	8.40	10.80	11.42	10.31	452.69	480.39	423.55	526.15	553.72	500.05
coiled-coil domain containing 124	Ccdc124	100753303	36.56	34.51	35.66	21.59	14.87	15.84	1737.83	1643.40	1716.56	992.04	682.06	707.54
coiled-coil domain containing 125	Ccdc125	100769496	1.79	1.86	2.07	2.35	2.37	2.76	186.85	184.84	201.22	231.78	230.80	278.53

coiled-coil domain containing 126	Ccdc126	100762153	9.46	8.78	8.89	9.28	10.09	11.12	568.14	524.31	535.34	562.08	610.64	666.42
coiled-coil domain containing 127	Ccdc127	100751028	14.29	14.25	14.18	15.10	16.92	16.31	1007.15	1018.43	1006.09	1067.37	1194.37	1159.93
coiled-coil domain containing 129	Ccdc129	100771395	0.03	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 13	Ccdc13	100766977	2.59	2.80	3.72	3.78	3.61	4.17	336.48	357.78	447.15	478.63	398.47	484.16
coiled-coil domain containing 130	Ccdc130	100765628	13.22	12.48	13.27	12.34	10.07	10.18	619.02	566.41	597.44	544.69	425.38	431.82
coiled-coil domain containing 132	Ccdc132	100760449	16.59	17.10	15.79	18.02	20.54	19.68	1722.63	1775.17	1635.83	1848.48	2086.53	2010.47
coiled-coil domain containing 134	Ccdc134	100762269	20.80	20.76	21.09	19.78	19.64	20.19	1218.30	1223.40	1304.19	1178.62	1189.20	1237.50
coiled-coil domain containing 135	Ccdc135	100764290	0.30	0.19	0.54	0.54	0.03	0.04	28.86	18.30	50.93	45.20	5.17	2.80
coiled-coil domain containing 136	Ccdc136	100751519	4.68	4.26	5.40	5.06	4.58	4.17	570.41	513.33	660.79	638.56	553.72	533.70
coiled-coil domain containing 137	Ccdc137	100765099	275.20	278.12	222.83	210.49	161.71	161.20	7696.41	7694.52	6149.57	5815.46	4301.40	4478.00
coiled-coil domain containing 138	Ccdc138	100761168	1.25	1.20	1.39	1.45	2.14	1.80	83.55	87.84	100.61	99.67	149.04	122.44
coiled-coil domain containing 14	Ccdc14	100757937	3.75	4.13	4.97	4.86	5.88	5.42	391.16	437.39	517.95	523.83	634.45	600.06
coiled-coil domain containing 141	Ccdc141	100768994	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.92	2.48	1.16	0.00	0.00
coiled-coil domain containing 142	Ccdc142	100764197	1.18	1.20	1.06	0.89	0.69	0.57	173.17	179.35	173.89	162.25	129.37	136.46
coiled-coil domain containing 146	Ccdc146	100760217	1.48	1.46	1.35	1.80	1.86	1.77	240.01	243.40	219.85	286.25	296.01	275.73
coiled-coil domain containing 147	Ccdc147	100762393	0.03	0.05	0.03	0.01	0.01	0.00	3.80	4.58	2.48	1.16	1.03	0.00
coiled-coil domain containing 148	Ccdc148	100757988	0.46	0.53	0.06	0.21	0.07	0.09	28.10	31.11	3.73	11.59	6.21	5.61
coiled-coil domain containing 149	Ccdc149	100765586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 15	Ccdc15	100755146	1.60	1.24	1.34	1.84	1.98	1.97	217.23	172.94	188.80	243.37	274.27	263.58
coiled-coil domain containing 151	Ccdc151	100754389	6.38	6.85	5.46	5.05	5.14	5.43	398.00	428.24	341.57	301.32	318.78	331.81
coiled-coil domain containing 152	Ccdc152	100763254	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	1.16	0.00	0.93
coiled-coil domain containing 153	Ccdc153	100755793	0.77	0.40	0.36	0.17	0.15	0.14	17.47	9.15	7.45	6.95	8.28	4.67
coiled-coil domain containing 154	Ccdc154	100764550	0.12	0.06	0.02	0.08	0.02	0.10	15.95	5.49	6.21	9.27	10.35	9.35
coiled-coil domain containing 155	Ccdc155	100755883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 157	Ccdc157	100754911	1.45	1.30	1.06	0.88	0.87	1.00	186.85	164.71	150.29	141.39	129.37	157.96
coiled-coil domain containing 158	Ccdc158	100769646	0.53	0.61	0.69	0.83	0.36	0.49	85.07	97.91	105.58	137.91	63.13	77.58
coiled-coil domain containing 159	Ccdc159	100769664	4.36	3.55	7.53	7.60	7.26	8.89	208.87	177.52	360.21	355.79	351.90	404.71

coiled-coil domain containing 160	Ccdc160	100766990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 166	Ccdc166	100763932	0.02	0.03	0.00	0.00	0.03	0.03	0.76	0.92	0.00	0.00	1.03	0.93
coiled-coil domain containing 167	Ccdc167	100755674	38.51	35.26	36.71	30.38	35.05	38.36	461.80	441.96	438.46	373.17	418.13	462.66
coiled-coil domain containing 168	Ccdc168	103162099	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.92	1.24	0.00	1.03	0.93
coiled-coil domain containing 169	Ccdc169	100767466	0.00	0.00	0.00	0.00	0.00	0.00	0.76	2.75	1.24	1.16	0.00	0.00
coiled-coil domain containing 17	Ccdc17	100761042	1.43	1.45	1.41	1.62	1.59	1.64	270.40	280.92	267.05	295.52	279.45	285.07
coiled-coil domain containing 170	Ccdc170	100773188	2.06	2.45	1.73	2.19	2.70	2.76	294.70	351.37	245.93	316.39	382.94	392.56
coiled-coil domain containing 172	Ccdc172	100767515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	1.16	0.00	0.00
coiled-coil domain containing 173	Ccdc173	100764424	2.71	3.06	3.61	4.05	4.57	4.19	154.19	172.94	201.22	219.04	239.08	223.39
coiled-coil domain containing 174	Ccdc174	100765768	22.72	23.24	22.80	24.23	25.13	23.84	1150.70	1153.86	1142.72	1183.26	1231.63	1172.08
coiled-coil domain containing 175	Ccdc175	100764413	0.44	0.50	0.32	0.28	0.23	0.27	42.53	52.16	21.12	34.77	20.70	25.24
coiled-coil domain containing 176	Ccdc176	100754703	2.72	3.14	3.29	3.77	3.90	4.10	287.11	303.79	322.94	370.85	432.62	420.60
coiled-coil domain containing 178	Ccdc178	100757741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 179	Ccdc179	100766121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 18	Ccdc18	100770535	2.21	2.53	2.21	2.44	3.16	2.88	473.19	534.38	493.11	557.44	688.27	636.51
coiled-coil domain containing 180	Ccdc180	100769850	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 181	Ccdc181	100761297	0.32	0.37	0.27	0.21	0.34	0.23	31.90	34.77	17.39	18.54	28.98	19.63
coiled-coil domain containing 182	Ccdc182	100761428	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
coiled-coil domain containing 183	Ccdc183	100761232	0.14	0.15	0.11	0.12	0.20	0.21	42.53	46.67	49.68	73.01	87.97	102.81
coiled-coil domain containing 184	Ccdc184	100753374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 185	Ccdc185	100754743	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 19	Ccdc19	100755656	2.34	2.11	2.09	2.29	2.38	1.93	150.39	129.93	122.97	146.02	160.42	139.27
coiled-coil domain containing 22	Ccdc22	100757706	36.48	34.01	37.31	31.78	23.84	28.63	3045.75	2879.61	3212.04	2718.83	2074.11	2418.93
coiled-coil domain containing 23	Ccdc23	100773604	42.20	41.73	45.73	47.11	46.23	49.68	648.65	634.12	694.33	712.74	686.20	749.61
coiled-coil domain containing 24	Ccdc24	100754400	0.67	0.87	0.75	1.00	0.69	0.52	50.13	58.56	52.17	63.74	54.85	34.58
coiled-coil domain containing 25	Ccdc25	100756157	31.05	31.37	27.63	35.22	38.25	32.75	862.08	840.92	763.88	953.79	1050.51	898.22
coiled-coil domain containing 27	Ccdc27	100774639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

coiled-coil domain containing 28A	Ccdc28a	100770774	22.79	21.89	22.48	25.27	27.13	30.60	751.94	728.37	765.13	783.43	855.93	940.28
coiled-coil domain containing 28B	Ccdc28b	100753619	0.70	1.02	0.47	0.87	0.56	0.45	37.22	44.84	31.05	39.40	37.26	25.24
coiled-coil domain containing 3	Ccdc3	100772989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 30	Ccdc30	100770106	0.03	0.01	0.00	0.00	0.05	0.00	2.28	1.83	3.73	2.32	5.17	0.93
coiled-coil domain containing 33	Ccdc33	100756733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 34	Ccdc34	100752060	38.10	36.60	34.56	37.04	39.33	35.02	1490.22	1453.99	1362.57	1483.42	1543.16	1378.64
coiled-coil domain containing 36	Ccdc36	100771768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
coiled-coil domain containing 37	Ccdc37	100771826	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	2.48	3.48	2.07	0.00
coiled-coil domain containing 38	Ccdc38	100757876	0.00	0.00	0.00	0.00	0.00	0.00	1.52	4.58	0.00	2.32	2.07	0.93
coiled-coil domain containing 39	Ccdc39	100750499	0.95	1.02	1.29	1.35	1.49	1.23	247.61	251.63	298.10	310.59	364.32	298.16
coiled-coil domain containing 40	Ccdc40	100756847	0.19	0.16	0.17	0.15	0.16	0.16	29.62	24.71	26.08	23.18	22.77	23.37
coiled-coil domain containing 42	Ccdc42	100752092	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 42B	Ccdc42b	100770861	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 43	Ccdc43	100763684	93.62	99.86	67.44	69.82	77.67	71.72	5528.69	5929.42	4035.54	4173.27	4577.74	4304.15
coiled-coil domain containing 50	Ccdc50	100750624	36.13	34.06	37.56	40.53	39.23	38.82	2190.51	2174.12	2352.51	2578.60	2530.54	2484.35
coiled-coil domain containing 51	Ccdc51	100762437	15.29	14.69	16.95	15.84	13.44	14.61	637.25	613.07	716.68	658.27	557.86	610.34
coiled-coil domain containing 53	Ccdc53	100771573	73.38	71.24	75.15	80.70	81.16	85.91	1605.67	1626.01	1683.03	1758.08	1820.54	1847.84
coiled-coil domain containing 54	Ccdc54	100769857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 57	Ccdc57	100771842	4.62	4.36	2.24	1.81	1.07	1.39	489.14	477.65	242.21	184.27	111.78	150.48
coiled-coil domain containing 58	Ccdc58	100767366	67.30	68.12	59.98	60.79	65.37	60.33	1869.23	1952.68	1706.63	1672.32	1808.12	1601.09
coiled-coil domain containing 6	Ccdc6	100761094	15.90	14.98	13.51	14.42	12.67	14.21	732.20	680.78	604.90	679.13	605.47	637.44
coiled-coil domain containing 60	Ccdc60	100759279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 61	Ccdc61	100758950	1.86	2.05	1.51	1.96	1.53	1.15	55.45	63.14	60.86	53.31	43.47	32.71
coiled-coil domain containing 62	Ccdc62	100766639	0.07	0.00	0.00	0.05	0.05	0.02	3.04	0.00	1.24	5.79	2.07	0.93
coiled-coil domain containing 63	Ccdc63	100774262	0.00	0.02	0.03	0.00	0.03	0.00	0.00	0.92	1.24	0.00	1.03	0.00
coiled-coil domain containing 64	Ccdc64	100759857	0.10	0.05	0.04	0.01	0.04	0.02	9.11	5.49	4.97	1.16	5.17	2.80
coiled-coil domain containing 64B	Ccdc64b	100767692	0.10	0.10	0.08	0.03	0.00	0.02	12.15	9.15	13.66	8.11	3.10	2.80
coiled-coil domain containing 65	Ccdc65	100767212	2.95	3.31	3.53	4.15	3.93	4.45	155.71	176.60	188.80	224.83	214.24	243.01

coiled-coil domain containing 66	Ccdc66	100752485	4.12	3.77	4.13	5.38	5.53	4.88	391.16	355.03	394.98	493.70	520.60	455.18
coiled-coil domain containing 67	Ccdc67	100753613	0.29	0.25	0.21	0.16	0.26	0.23	38.74	35.69	29.81	32.45	34.15	31.78
coiled-coil domain containing 68	Ccdc68	100761099	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
coiled-coil domain containing 69	Ccdc69	100765513	0.04	0.19	0.20	0.12	0.17	0.00	1.52	4.58	4.97	2.32	4.14	2.80
coiled-coil domain containing 7	Ccdc7	100764183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 70	Ccdc70	100770438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 71	Ccdc71	100762268	32.90	32.13	36.86	32.33	30.79	34.65	2215.58	2177.78	2502.80	2220.49	2102.06	2441.36
coiled-coil domain containing 73	Ccdc73	100770503	0.06	0.06	0.05	0.05	0.08	0.03	10.63	12.81	14.91	15.07	15.52	10.28
coiled-coil domain containing 74B	Ccdc74b	100757786	0.12	0.07	0.09	0.04	0.04	0.04	6.08	7.32	3.73	4.64	2.07	1.87
coiled-coil domain containing 77	Ccdc77	100753915	30.01	27.61	31.42	37.37	34.20	30.11	2697.88	2489.81	2884.13	3404.91	3066.66	2742.32
coiled-coil domain containing 78	Ccdc78	100761067	0.00	0.04	0.00	0.00	0.02	0.02	0.76	2.75	2.48	1.16	1.03	1.87
coiled-coil domain containing 79	Ccdc79	100767836	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
coiled-coil domain containing 8	Ccdc8	103164277	1.91	1.87	1.93	1.50	1.26	0.93	169.38	159.22	172.65	147.18	115.92	98.14
coiled-coil domain containing 80	Ccdc80	100765789	128.22	130.25	165.89	176.06	137.40	140.80	17298.51	17676.62	22574.93	23949.08	18633.89	19125.21
coiled-coil domain containing 81	Ccdc81	100762831	0.25	0.31	0.08	0.09	0.15	0.18	18.23	22.88	8.69	8.11	17.59	14.95
coiled-coil domain containing 82	Ccdc82	100762899	4.20	4.23	3.25	3.76	5.41	4.83	390.40	398.04	321.70	370.85	519.56	473.88
coiled-coil domain containing 83	Ccdc83	100763604	0.60	0.30	0.19	0.32	0.45	0.26	31.90	21.96	13.66	19.70	24.84	20.56
coiled-coil domain containing 84	Ccdc84	100759181	8.37	9.09	12.06	9.62	10.80	12.39	379.77	396.21	510.50	429.96	483.34	521.55
coiled-coil domain containing 85A	Ccdc85a	100750517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 85B	Ccdc85b	100766533	35.83	30.45	27.65	13.25	10.30	10.10	1606.43	1374.38	1187.44	584.10	440.90	458.92
coiled-coil domain containing 85C	Ccdc85c	100769004	12.80	12.62	15.02	12.99	9.33	10.80	1240.33	1202.35	1453.24	1223.82	873.53	1025.33
coiled-coil domain containing 86	Ccdc86	100774139	77.51	79.46	73.02	63.32	41.81	46.60	2866.50	2931.77	2715.20	2345.65	1575.25	1789.89
coiled-coil domain containing 87	Ccdc87	100761101	0.02	0.02	0.07	0.05	0.04	0.05	1.52	1.83	6.21	3.48	4.14	4.67
coiled-coil domain containing 88A	Ccdc88a	100765924	6.11	5.98	4.96	6.33	7.16	6.16	1409.70	1367.98	1162.59	1493.85	1671.50	1466.50
coiled-coil domain containing 88B	Ccdc88b	100774835	0.02	0.01	0.03	0.00	0.02	0.01	41.02	37.52	24.84	26.66	12.42	16.82
coiled-coil domain containing 88C	Ccdc88c	100753852	0.37	0.33	0.14	0.14	0.04	0.09	80.51	71.37	32.29	31.29	9.31	18.69
coiled-coil domain containing 89	Ccdc89	100761005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain containing 9	Ccdc9	100767115	6.78	5.94	7.18	4.09	2.84	3.11	341.03	319.35	367.66	213.24	163.53	171.98

coiled-coil domain containing 90B	Ccdc90b	100751582	21.77	23.01	24.57	26.99	27.99	26.08	911.45	959.87	1017.27	1087.07	1151.94	1074.87
coiled-coil domain containing 92	Ccdc92	100767201	8.08	8.21	7.51	6.36	6.63	6.51	505.09	507.84	478.20	403.30	406.75	413.12
coiled-coil domain containing 93	Ccdc93	100760176	8.59	8.72	9.37	9.70	10.73	11.80	1396.79	1449.41	1545.16	1580.77	1712.90	1858.12
coiled-coil domain containing 94	Ccdc94	100755173	5.72	5.79	2.76	2.65	2.16	2.58	615.99	627.71	308.04	289.73	235.98	289.75
coiled-coil domain containing 96	Ccdc96	100750342	0.22	0.26	0.23	0.19	0.28	0.25	12.15	13.73	13.66	10.43	14.49	13.09
coiled-coil domain containing 97	Ccdc97	100773067	7.24	7.11	7.64	6.70	5.18	4.82	476.99	480.39	506.77	441.55	345.69	315.92
coiled-coil glutamate-rich protein 1	Ccer1	100754117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil glutamate-rich protein 2	Ccer2	100769486	0.10	0.04	0.11	0.10	0.05	0.00	20.51	10.98	26.08	19.70	8.28	9.35
coiled-coil alpha-helical rod protein 1	Cchcr1	100754418	6.63	6.32	7.62	5.25	3.93	4.43	592.44	570.98	665.76	482.11	357.07	408.45
calicin	Ccin	100757067	0.14	0.17	0.11	0.14	0.14	0.12	11.39	14.64	8.69	12.75	11.38	9.35
cholecystokinin	Cck	100772438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholecystokinin A receptor	Cckar	100774917	0.10	0.11	0.31	0.39	0.19	0.19	11.39	10.98	29.81	41.72	19.66	21.50
cholecystokinin B receptor	Cckbr	100754060	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 1	Ccl1	103159565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 11	Ccl11	100763547	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 16	Ccl16	100751682	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93
chemokine (C-C motif) ligand 17	Ccl17	100764062	1.19	1.82	0.19	0.30	0.24	0.49	34.18	45.75	3.73	9.27	9.31	12.15
chemokine (C-C motif) ligand 19	Ccl19	100751942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 20	Ccl20	100756991	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 21	Ccl21	100770444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.93
chemokine (C-C motif) ligand 22	Ccl22	100760298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 24	Ccl24	100762320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 25	Ccl25	100758484	0.04	0.00	0.00	0.14	0.18	0.06	0.76	0.00	1.24	2.32	3.10	3.74
chemokine (C-C motif) ligand 26	Ccl26	103161431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 27	Ccl27	100770725	2.28	2.52	3.40	3.56	3.96	4.39	70.64	75.03	120.48	129.80	129.37	141.14
chemokine (C-C motif) ligand 28	Ccl28	100765151	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) ligand 5	Ccl5	100773745	0.26	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
cerebral cavernous malformation 2	Ccm2	100766896	16.21	15.59	15.32	13.76	8.83	10.89	794.48	757.65	751.46	691.88	449.18	553.32
cerebral cavernous malformation 2-like	Ccm2l	100773603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin A1	Ccna1	100769969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin A2	Ccna2	100759649	79.41	83.53	71.95	80.65	91.22	84.34	3942.77	4158.83	3547.40	3810.53	4217.57	3908.79
cyclin B1	Ccnb1	100770842	84.85	83.43	83.00	88.63	96.55	91.51	5836.30	5847.06	5908.61	6210.65	6745.01	6426.79
cyclin B1 interacting protein 1, E3 ubiquitin protein ligase	Ccnb1ip1	100753354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin B2	Ccnb2	100773656	50.70	52.46	50.40	57.01	92.59	89.17	2031.77	2148.50	2023.36	2234.40	3636.94	3552.68
cyclin B3	Ccnb3	100755282	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
cyclin C	Ccnc	100764362	16.45	16.14	14.67	15.61	15.83	15.56	728.40	755.82	667.00	718.53	838.34	747.74
cyclin D1	Ccnd1	100689063	51.90	53.19	41.86	36.30	29.22	31.72	1530.47	1579.35	1204.82	958.43	715.18	779.51
cyclin D2	Ccnd2	100771544	68.13	67.57	80.86	82.69	71.50	75.93	12124.52	12017.14	14524.96	14762.32	12671.34	13587.29
cyclin D3	Ccnd3	100766025	44.96	45.48	48.87	41.70	35.88	40.36	2147.98	2122.88	2350.03	1914.54	1631.14	1818.87
cyclin D-type binding-protein 1	Ccndbp1	100756614	23.67	23.60	25.26	25.55	28.20	29.76	1056.52	1048.63	1094.28	1109.09	1234.74	1301.06

cyclin E1	Ccne1	100753358	7.95	7.05	5.68	5.43	3.41	3.67	382.05	355.95	285.68	261.92	163.53	184.13
cyclin E2	Ccne2	100760464	3.67	5.20	5.43	6.56	6.88	6.75	134.44	170.20	149.05	157.61	192.51	178.52
cyclin F	Ccnf	100774506	18.29	16.27	14.53	14.33	12.50	13.26	1936.83	1744.97	1568.76	1530.93	1336.17	1407.61
cyclin G1	Ccng1	100771963	11.33	11.19	6.42	7.62	7.61	8.03	1004.11	960.79	555.21	660.58	661.36	701.00
cyclin G2	Ccng2	100753075	7.05	7.14	8.12	8.68	8.79	9.33	515.73	527.97	589.99	623.50	648.94	681.37
cyclin H	Ccnh	100762144	53.82	54.74	50.67	54.06	56.30	55.22	1847.20	1914.25	1750.10	1843.84	1979.93	1902.99
cyclin I	Ccni	100752774	72.37	72.59	85.12	87.77	108.41	112.56	4572.43	4628.24	5416.74	5585.99	6804.00	7102.55
cyclin J	Ccnj	100763458	2.55	2.57	2.42	2.75	2.79	2.75	271.92	270.85	258.35	285.09	284.62	284.14
cyclin J-like	Ccnjl	100767662	2.47	2.44	2.58	2.48	2.59	2.65	234.70	216.86	242.21	228.31	239.08	241.14
cyclin K	Ccnk	100769288	26.62	26.79	24.25	22.66	19.78	21.31	1972.52	1996.60	1809.72	1696.66	1482.10	1577.72
cyclin L1	Ccnl1	100758148	42.53	44.39	30.57	35.48	37.63	33.42	2093.29	2164.97	1517.83	1811.39	1881.61	1688.95
cyclin L2	Ccnl2	100770856	39.74	39.40	41.61	43.61	47.16	43.21	3326.02	3354.51	3629.38	3694.64	4090.27	3753.63
cyclin O	Ccno	100751971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin T1	Ccnt1	100758059	8.54	9.59	7.75	8.58	8.57	8.17	600.04	588.37	562.67	574.82	578.56	556.13
cyclin T2	Ccnt2	100764441	8.30	8.14	8.28	9.37	9.23	9.26	817.26	842.75	894.30	1027.96	1002.90	1000.10
cyclin Y	Ccny	100771569	43.19	44.72	47.50	48.01	49.03	52.25	2391.79	2513.60	2655.58	2701.44	2735.47	2896.54
cyclin Y-like 1	Ccnyl1	100760997	9.95	9.94	9.41	10.18	11.98	11.53	870.43	862.88	847.10	902.80	1041.20	1005.70
centriolar coiled coil protein 110kDa	Ccp110	100775002	7.85	7.97	7.08	8.53	9.54	9.09	830.18	851.90	789.97	884.26	1008.08	931.87
cell cycle progression 1	Ccpg1	100768292	27.14	27.24	33.67	40.76	44.61	41.39	2571.80	2620.66	3194.65	3728.25	4030.24	3738.68
chemokine (C-C motif) receptor 10	Ccr10	100760302	2.76	2.41	1.78	0.95	1.05	1.10	248.37	241.57	190.04	115.89	133.51	144.87
chemokine (C-C motif) receptor 2	Ccr2	100762449	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) receptor 3	Ccr3	100762154	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
chemokine (C-C motif) receptor 4	Ccr4	100770515	0.13	0.00	0.00	0.03	0.08	0.02	5.32	0.00	0.00	1.16	3.10	0.93
chemokine (C-C motif) receptor 5	Ccr5	100762740	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chemokine (C-C motif) receptor 6	Ccr6	100756572	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
chemokine (C-C motif) receptor 7	Ccr7	100773169	2.28	2.02	0.19	0.23	0.77	0.99	152.67	138.17	13.66	17.38	51.75	67.30
chemokine (C-C motif) receptor 8	Ccr8	100753346	0.05	0.07	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
chemokine (C-C motif) receptor 9	Ccr9	100763320	0.02	0.02	0.03	0.03	0.05	0.00	1.52	0.92	1.24	1.16	2.07	0.00
chemokine (C-C motif) receptor-like 2	Ccrl2	100768546	11.06	11.44	8.21	10.05	8.70	8.77	438.25	444.71	330.40	387.08	337.41	359.85
CCR4 carbon catabolite repression 4-like (S. cerevisiae)	Ccrn4l	100766002	29.37	30.64	38.82	38.35	31.97	33.23	1838.84	1914.25	2432.01	2380.42	1970.61	2073.10
copper chaperone for superoxide dismutase	Ccs	100757246	42.48	43.30	39.71	38.13	29.41	31.76	1240.33	1232.55	1165.08	1087.07	851.79	930.93
centriole, cilia and spindle-associated protein	Ccsap	100769539	13.25	14.33	17.49	18.16	20.43	18.65	1105.89	1197.78	1478.08	1517.03	1685.99	1561.83
coiled-coil serine-rich protein 1	Ccser1	100775049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil serine-rich protein 2	Ccser2	100752321	7.95	7.52	7.76	9.12	10.19	8.54	735.99	720.13	712.96	813.56	932.52	811.29
chaperonin containing TCP1, subunit 2 (beta)	Cct2	100759253	273.95	270.31	257.67	272.14	275.74	291.87	15777.15	15800.80	14989.50	15521.41	15778.37	16439.91
chaperonin containing TCP1, subunit 3 (gamma)	Cct3	100755267	412.85	420.95	428.44	420.03	376.11	408.56	22875.80	23334.27	23696.53	22841.15	20671.78	22344.21
chaperonin containing TCP1, subunit 4 (delta)	Cct4	100767849	204.13	207.70	207.70	217.42	219.67	215.24	11309.54	11516.61	11484.33	11897.47	12004.81	11754.41
chaperonin containing TCP1, subunit 5 (epsilon)	Cct5	100757108	196.97	203.06	204.14	201.72	178.45	180.50	9596.02	9864.06	10034.82	9885.59	8937.11	9012.09
chaperonin containing TCP1, subunit 6A (zeta 1)	Cct6a	100754913	260.61	255.48	242.05	258.56	250.26	248.29	22025.88	22083.42	20894.38	21953.42	21270.00	20781.45

chaperonin containing TCP1, subunit 6B (zeta 2)	Cct6b	100764422	0.22	0.16	0.11	0.18	0.21	0.27	15.95	14.64	8.69	11.59	13.45	15.89
chaperonin containing TCP1, subunit 7 (eta)	Cct7	100770561	314.26	313.97	327.96	325.25	291.24	302.63	15041.91	15164.85	15829.15	15435.65	13832.59	14357.46
chaperonin containing TCP1, subunit 8 (theta)	Cct8	100761027	631.61	618.42	611.48	646.82	681.20	679.38	14088.69	13917.66	13685.31	14177.07	15035.25	14705.16
chaperonin containing TCP1, subunit 8 (theta)-like 2	Cct8l2	100767085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD101 molecule	Cd101	100771961	0.01	0.01	0.01	0.01	0.02	0.02	1.52	0.92	2.48	1.16	4.14	2.80
CD109 molecule	Cd109	100757414	16.63	17.24	26.10	30.64	29.22	28.00	2325.71	2417.52	3667.88	4239.33	4019.89	3816.26
CD14 molecule	Cd14	100757057	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	1.16	0.00	0.93
CD151 molecule (Raph blood group)	Cd151	100754541	126.69	121.70	148.97	158.86	159.05	168.09	6287.47	6061.18	7370.54	7775.19	7826.57	8415.77
CD160 molecule	Cd160	100772814	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
CD164 molecule, sialomucin	Cd164	100751988	101.72	103.02	101.21	106.21	113.49	113.10	7690.33	7804.32	7710.88	7978.00	8398.91	8466.24
CD164 sialomucin-like 2	Cd164l2	100759840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD177 molecule	Cd177	100770932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD180 molecule	Cd180	100774952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD19 molecule	Cd19	100765953	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.83	0.00	1.16	1.03	0.00
CD2 molecule	Cd2	100769473	0.06	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
CD209 molecule	Cd209	100770076	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD22 molecule	Cd22	100752625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD226 molecule	Cd226	100762155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD24 molecule	Cd24	100767726	0.57	0.17	1.20	1.18	0.00	0.37	5.32	5.49	14.91	6.95	3.10	4.67
CD244 molecule, natural killer cell receptor 2B4	Cd244	100753316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD247 molecule	Cd247	100771291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD248 molecule, endosialin	Cd248	100768169	0.00	0.05	0.02	0.00	0.00	0.00	0.00	2.75	1.24	0.00	0.00	0.00
CD27 molecule	Cd27	100751906	0.02	0.07	0.06	0.06	0.03	0.05	4.56	5.49	6.21	6.95	6.21	7.48
CD274 molecule	Cd274	100759180	0.01	0.03	0.07	0.02	0.02	0.02	1.52	2.75	3.73	1.16	1.03	0.93
CD276 molecule	Cd276	100754397	17.43	17.51	24.06	22.09	17.87	20.83	1348.18	1336.86	1839.53	1673.48	1344.45	1578.66
CD28 molecule	Cd28	100769830	1.23	1.03	0.73	1.09	2.18	2.06	64.56	49.41	32.29	54.47	106.60	105.62
CD2-associated protein	Cd2ap	100770360	39.98	42.16	34.03	38.57	39.31	36.17	2829.28	2991.24	2450.64	2735.05	2764.45	2510.52
CD2 (cytoplasmic tail) binding protein 2	Cd2bp2	100774263	61.46	58.66	69.43	67.90	65.57	72.06	5184.61	4969.55	5860.17	5681.03	5483.36	6046.38
CD300a molecule	Cd300a	100750625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD300e molecule	Cd300e	100759375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD300 molecule-like family member b	Cd300lb	100750336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD300 molecule-like family member f	Cd300lf	100759092	0.03	0.00	0.11	0.00	0.05	0.00	0.76	0.00	2.48	0.00	1.03	0.00
CD300 molecule-like family member g	Cd300lg	100761368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD320 molecule	Cd320	100756475	17.33	16.00	21.75	21.05	17.85	17.40	555.98	520.65	674.45	654.79	538.19	521.55
CD33 molecule	Cd33	100753674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD34 molecule	Cd34	100771922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD36 molecule (thrombospondin receptor)	Cd36	100765055	1.31	1.11	1.74	2.31	1.66	1.48	100.26	86.01	135.39	175.00	129.37	118.70

CD37 molecule	Cd37	100771511	0.00	0.04	0.00	0.05	0.00	0.04	0.00	0.92	1.24	1.16	0.00	2.80
CD38 molecule	Cd38	100773187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD3d molecule, delta (CD3-TCR complex)	Cd3d	100756906	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
CD3e molecule, epsilon (CD3-TCR complex)	Cd3e	100757488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD3e molecule, epsilon associated protein	Cd3eap	100755473	80.58	84.26	92.08	79.82	61.57	60.00	2968.28	3110.20	3364.81	2892.66	2263.52	2205.82
CD3g molecule, gamma (CD3-TCR complex)	Cd3g	100757196	0.10	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
CD4 molecule	Cd4	100766761	0.00	0.00	0.00	0.00	0.00	0.03	0.00	1.83	0.00	0.00	2.07	5.61
CD40 molecule, TNF receptor superfamily member 5	Cd40	100770242	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
CD40 ligand	Cd40lg	100763089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD44 molecule (Indian blood group)	Cd44	100750640	212.89	218.10	162.46	176.13	173.68	171.07	24853.64	25453.49	18842.46	20328.61	19897.61	19779.48
CD46 molecule, complement regulatory protein	Cd46	100772491	0.34	0.19	0.28	0.36	0.43	0.48	36.46	23.79	26.08	39.40	50.71	53.28
CD47 molecule	Cd47	100770433	8.93	9.01	5.37	5.76	6.29	6.20	1227.42	1307.58	780.03	829.79	905.61	908.50
CD48 molecule	Cd48	100753914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD5 molecule	Cd5	100764231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD53 molecule	Cd53	100772300	0.02	0.03	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
CD55 molecule, decay accelerating factor for complement (Cromer blood group)	Cd55	100772131	0.02	0.01	0.05	0.00	0.01	0.10	1.52	0.92	2.48	0.00	1.03	4.67
CD59 molecule, complement regulatory protein	Cd59	100772910	20.74	21.11	18.05	18.13	21.19	22.51	432.18	425.49	353.99	345.36	410.89	434.62
CD5 molecule-like	Cd5l	100759713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD6 molecule	Cd6	100751977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD63 molecule	Cd63	100772167	593.08	567.28	684.11	664.66	611.12	653.35	10545.44	9824.72	11709.15	10786.07	9623.30	10419.70
CD68 molecule	Cd68	100762586	1.85	2.02	1.71	1.97	2.16	2.49	156.47	165.62	157.75	179.63	202.86	221.52
CD7 molecule	Cd7	100751416	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
CD70 molecule	Cd70	100750972	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD72 molecule	Cd72	100756547	0.12	0.17	0.20	0.09	0.14	0.10	8.35	7.32	8.69	12.75	12.42	12.15
CD74 molecule, major histocompatibility complex, class II invariant chain	Cd74	100766126	0.06	0.07	0.03	0.03	0.06	0.02	6.84	5.49	3.73	2.32	5.17	6.54
CD79a molecule, immunoglobulin-associated alpha	Cd79a	100759072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	1.87
CD79b molecule, immunoglobulin-associated beta	Cd79b	100770248	0.00	0.06	0.00	0.00	0.28	0.13	0.00	1.83	0.00	0.00	19.66	14.02
CD80 molecule	Cd80	100760030	0.12	0.13	0.06	0.14	0.12	0.18	8.35	5.49	3.73	6.95	5.17	10.28
CD81 molecule	Cd81	100759632	83.10	78.49	47.59	44.92	14.54	16.53	3323.74	3191.64	1951.32	1829.93	598.22	671.09
CD82 molecule	Cd82	100772417	0.51	0.61	0.28	0.16	0.37	0.63	25.82	33.86	14.91	13.91	17.59	35.52
CD83 molecule	Cd83	100769362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD84 molecule	Cd84	100760770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.93
CD86 molecule	Cd86	100769382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD8a molecule	Cd8a	100766512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
CD8b molecule	Cd8b	100769972	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD9 molecule	Cd9	100764427	0.64	0.77	2.03	2.50	2.51	2.90	16.71	25.62	54.65	71.85	73.48	85.05
CD93 molecule	Cd93	100764788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CD96 molecule	Cd96	100769835	0.01	0.00	0.06	0.06	0.09	0.02	10.63	9.15	9.94	13.91	14.49	15.89
CD97 molecule	Cd97	100761362	4.93	5.48	3.99	4.56	3.42	3.60	504.33	569.15	423.55	465.89	357.07	368.26
CD99 molecule-like 2	Cd99l2	100770391	12.36	13.09	11.32	12.89	14.07	14.93	439.01	441.05	404.92	439.23	505.07	525.28
cytidine deaminase	Cda	100754972	2.20	2.48	1.36	1.28	1.11	1.78	108.61	112.55	63.35	73.01	69.34	80.38
cytidine and dCMP deaminase domain containing 1	Cdadc1	100763867	3.51	3.57	4.20	4.76	5.03	4.99	243.81	247.06	281.95	297.84	310.50	317.79
codanin 1	Cdan1	100756905	3.14	3.11	3.36	2.99	2.84	2.61	380.53	376.08	401.19	380.13	350.86	333.68
cell division cycle 123	Cdc123	100753983	40.62	41.83	40.49	46.52	48.77	50.38	1713.52	1783.40	1715.32	1921.49	2044.10	2084.31
cell division cycle 14A	Cdc14a	100772604	7.04	7.77	6.74	7.88	8.60	8.57	378.25	408.10	371.38	424.16	459.53	448.64
cell division cycle 14B	Cdc14b	100759761	5.71	5.10	5.01	5.86	6.61	7.22	613.71	550.85	522.92	628.13	682.06	738.39
cell division cycle 16	Cdc16	100759495	109.71	109.42	104.91	111.17	122.18	124.16	7367.53	7438.31	7124.61	7454.17	8224.00	8199.86
cell division cycle 20	Cdc20	100767761	107.41	101.03	116.62	118.81	100.02	111.23	5770.98	5507.59	6339.61	6287.14	5358.12	5820.19
cell division cycle 20B	Cdc20b	100751686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell division cycle 23	Cdc23	100752608	31.42	32.50	39.95	38.02	41.68	43.76	2531.54	2634.38	3218.25	3024.78	3322.31	3509.68
cell division cycle 25A	Cdc25a	100767961	28.50	28.18	31.17	32.39	31.42	31.86	2830.80	2842.09	3149.93	3258.88	3143.25	3196.57
cell division cycle 25B	Cdc25b	100765509	18.60	19.41	22.97	21.77	17.63	17.90	1778.08	1868.50	2218.37	2112.71	1731.53	1724.47
cell division cycle 25C	Cdc25c	100773417	3.51	3.83	4.11	4.04	4.40	4.78	250.65	273.60	280.71	290.89	337.41	359.85
cell division cycle 26	Cdc26	100753813	41.58	41.04	40.24	43.84	48.86	47.87	1927.71	1886.80	1849.47	2003.77	2227.29	2208.62
cell division cycle 27	Cdc27	100770539	28.07	28.00	28.58	32.46	34.81	32.03	4273.93	4355.56	4460.33	5028.55	5404.70	4908.89
cell division cycle 34	Cdc34	100750683	63.11	63.40	57.25	43.55	24.09	28.55	2001.39	2034.12	1822.14	1380.27	773.13	882.33
cell division cycle 37	Cdc37	100760178	174.81	168.92	180.35	136.29	101.64	110.17	8720.27	8475.04	9013.82	6785.48	5125.25	5548.20
cell division cycle 37-like 1	Cdc37l1	100761473	18.16	18.83	18.80	21.24	20.76	20.26	1377.04	1422.88	1420.95	1583.08	1536.95	1529.12
cell division cycle 40	Cdc40	100772994	20.37	21.67	22.64	22.29	24.03	22.10	1907.96	2034.12	2131.42	2045.49	2210.73	2059.08
cell division cycle 42	Cdc42	100765433	241.85	261.41	268.36	274.02	292.99	287.28	7455.64	7991.90	8335.64	8343.06	8990.93	8950.40
CDC42 binding protein kinase alpha (DMPK-like)	Cdc42bpa	100750503	25.62	24.40	28.27	31.40	32.01	33.78	3490.84	3248.37	3757.31	4182.54	4145.12	4336.87
CDC42 binding protein kinase beta (DMPK-like)	Cdc42bpb	100773684	32.67	32.12	21.53	19.97	17.93	18.67	6094.54	6152.69	4141.12	3769.97	3442.36	3549.88
CDC42 binding protein kinase gamma (DMPK-like)	Cdc42bpg	100758107	0.02	0.02	0.00	0.01	0.00	0.01	7.60	9.15	3.73	4.64	2.07	7.48
CDC42 effector protein (Rho GTPase binding) 1	Cdc42ep1	100751388	67.48	62.42	53.41	42.88	30.38	34.16	4602.81	4255.82	3672.85	2935.54	2101.02	2364.71
CDC42 effector protein (Rho GTPase binding) 2	Cdc42ep2	100768016	1.08	1.11	0.89	0.46	0.70	0.72	45.57	44.84	36.02	20.86	28.98	31.78
CDC42 effector protein (Rho GTPase binding) 3	Cdc42ep3	100755114	52.48	53.17	57.40	56.54	69.43	68.11	2589.27	2626.15	2870.46	2783.73	3387.51	3374.16
CDC42 effector protein (Rho GTPase binding) 4	Cdc42ep4	100752272	5.13	4.96	5.47	5.85	4.60	5.12	420.78	416.34	448.39	479.79	362.25	419.67
CDC42 small effector 1	Cdc42se1	100767648	26.41	26.67	23.28	24.42	22.67	23.26	2075.06	2109.15	1858.16	1912.22	1776.04	1833.82
CDC42 small effector 2	Cdc42se2	100770481	1.05	0.71	0.78	1.14	0.25	0.60	15.19	10.07	18.63	11.59	4.14	7.48
cell division cycle 45	Cdc45	100689362	27.18	28.34	31.21	33.06	36.06	37.23	1519.08	1608.63	1784.88	1828.78	1995.45	2080.57
cell division cycle 5-like	Cdc5l	100756825	49.19	48.59	46.59	51.61	53.41	51.11	4909.66	4929.29	4811.84	5168.78	5391.24	5141.62

cell division cycle 6	Cdc6	100689243	11.44	12.41	11.95	12.48	13.29	13.31	800.55	862.88	866.98	859.92	866.28	898.22
cell division cycle 7	Cdc7	100689341	19.99	19.83	22.60	24.02	25.19	24.18	1652.76	1636.99	1866.86	1991.02	2098.95	1997.39
cell division cycle 73	Cdc73	100767294	20.40	20.68	18.19	20.92	21.83	20.46	2390.27	2460.53	2114.03	2407.08	2511.91	2353.50
cell division cycle associated 2	Cdca2	100775015	21.44	21.47	24.90	28.99	27.51	27.04	2267.98	2328.76	2677.94	3082.73	2911.42	2899.35
cell division cycle associated 3	Cdca3	100757076	75.40	80.26	84.06	85.63	90.54	88.50	2216.34	2373.60	2512.74	2437.21	2560.56	2503.05
cell division cycle associated 4	Cdca4	100770517	51.40	49.22	48.74	42.05	38.50	41.36	3116.39	2983.01	2974.80	2547.31	2324.58	2516.13
cell division cycle associated 5	Cdca5	103159496	26.72	26.53	33.72	35.13	36.02	39.41	1436.29	1422.88	1809.72	1868.18	1938.53	2131.98
cell division cycle associated 7	Cdca7	100774637	66.43	67.80	76.37	74.27	74.28	75.88	4924.09	5067.46	5714.84	5488.64	5422.29	5570.63
cell division cycle associated 7-like	Cdca7l	100770155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell division cycle associated 8	Cdca8	100753031	49.05	45.53	41.27	39.38	37.71	41.91	2362.93	2240.00	2028.33	1908.74	1834.00	1987.11
CUB domain containing protein 1	Cdcp1	100760890	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
CUB domain containing protein 2	Cdcp2	100770767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 1, type 1, E-cadherin (epithelial)	Cdh1	100758185	0.44	0.59	0.65	0.81	0.99	1.09	54.69	71.37	83.22	101.98	122.13	130.85
cadherin 10, type 2 (T2-cadherin)	Cdh10	100768913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 11, type 2, OB-cadherin (osteoblast)	Cdh11	100767551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 12, type 2 (N-cadherin 2)	Cdh12	100756950	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	2.07	0.00
cadherin 13	Cdh13	100751312	0.43	0.54	0.04	0.01	0.00	0.03	36.46	53.07	3.73	1.16	0.00	2.80
cadherin 15, type 1, M-cadherin (myotubule)	Cdh15	100764305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 16, KSP-cadherin	Cdh16	100761107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 17, LI cadherin (liver-intestine)	Cdh17	100761958	0.00	0.03	0.00	0.01	0.01	0.00	1.52	2.75	0.00	1.16	1.03	0.00
cadherin 18, type 2	Cdh18	100751447	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	0.00	0.93
cadherin 19, type 2	Cdh19	100765140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 2, type 1, N-cadherin (neuronal)	Cdh2	100689204	0.06	0.00	0.02	0.00	0.02	0.03	4.56	0.00	1.24	0.00	2.07	3.74
cadherin 20, type 2	Cdh20	100756854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 22, type 2	Cdh22	100767839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin-related 23	Cdh23	100760032	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.92	1.24	2.32	0.00	1.87
cadherin 24, type 2	Cdh24	100766231	0.40	0.64	0.71	0.30	0.53	0.48	29.62	39.35	43.47	18.54	36.22	29.91
cadherin 26	Cdh26	100770778	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 3, type 1, P-cadherin (placental)	Cdh3	100758473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 5, type 2 (vascular endothelium)	Cdh5	100767079	0.02	0.00	0.00	0.02	0.00	0.00	3.04	0.00	0.00	1.16	0.00	0.00
cadherin 6, type 2, K-cadherin (fetal kidney)	Cdh6	100767269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 7, type 2	Cdh7	100764852	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cadherin 8, type 2	Cdh8	100758353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin 9, type 2 (T1-cadherin)	Cdh9	100758572	1.40	1.37	0.76	1.11	1.05	1.21	132.16	132.68	78.25	105.46	105.57	119.64
cadherin-related family member 1	Cdhr1	100755383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin-related family member 2	Cdhr2	100774943	0.01	0.02	0.00	0.00	0.01	0.00	2.28	2.75	0.00	0.00	1.03	0.00
cadherin-related family member 3	Cdhr3	100760935	0.03	0.03	0.04	0.02	0.05	0.08	3.80	4.58	2.48	2.32	3.10	6.54
cadherin-related family member 4	Cdhr4	100759988	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	2.48	2.32	0.00	0.00
cadherin-related family member 5	Cdhr5	100756177	0.00	0.00	0.00	0.00	0.00	0.00	6.84	11.90	12.42	9.27	8.28	8.41
cell death-inducing p53 target 1	Cdip1	100773437	19.05	17.57	20.72	20.85	22.07	22.20	1381.60	1281.05	1531.49	1529.77	1581.46	1608.57

CDP-diacylglycerol--inositol 3-phosphatidyltransferase	Cdipt	100750801	46.62	45.29	48.10	39.74	33.59	34.76	2495.85	2454.12	2586.02	2131.25	1806.05	1880.56
cyclin-dependent kinase 1	Cdk1	100766716	87.14	87.74	94.18	101.51	105.44	104.89	3178.67	3220.00	3445.55	3640.17	3835.66	3738.68
cyclin-dependent kinase 10	Cdk10	100762088	22.48	20.50	28.83	30.41	27.29	29.15	1214.50	1144.71	1642.04	1670.00	1504.87	1587.07
cyclin-dependent kinase 12	Cdk12	100758448	32.60	33.01	24.65	26.21	25.57	24.55	4769.91	4803.93	3592.12	3840.66	3692.83	3620.91
cyclin-dependent kinase 13	Cdk13	100772207	14.70	14.17	15.87	16.69	16.77	15.92	2288.49	2236.34	2497.84	2597.14	2619.55	2503.98
cyclin-dependent kinase 14	Cdk14	100769772	33.18	34.86	44.07	52.10	59.99	57.20	4210.13	4455.30	5640.32	6502.70	7474.67	7124.99
cyclin-dependent kinase 15	Cdk15	100763928	0.15	0.16	0.16	0.06	0.02	0.08	22.03	21.05	23.60	9.27	7.24	13.09
cyclin-dependent kinase 16	Cdk16	100769331	78.01	76.33	88.79	86.11	73.19	79.65	4149.36	4051.77	4708.75	4525.58	3841.87	4178.91
cyclin-dependent kinase 17	Cdk17	100753201	26.03	25.38	22.29	23.63	25.75	24.52	2542.18	2498.04	2207.19	2339.86	2522.26	2472.20
cyclin-dependent kinase 18	Cdk18	100755170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cyclin-dependent kinase 19	Cdk19	100754073	13.74	14.51	16.06	18.60	20.55	19.65	2228.49	2376.34	2627.01	3020.15	3316.10	3192.83
cyclin-dependent kinase 2	Cdk2	100689039	22.01	21.28	20.56	23.39	25.32	24.96	918.28	925.10	890.58	1001.31	1016.36	1050.57
cyclin-dependent kinase 20	Cdk20	100758610	6.23	5.73	8.22	5.56	4.22	4.99	374.45	349.54	488.14	345.36	253.57	303.77
cyclin-dependent kinase 2 associated protein 1	Cdk2ap1	100773827	146.17	148.58	158.94	152.66	155.44	162.93	3606.29	3643.66	3908.85	3670.30	3716.64	3923.74
cyclin-dependent kinase 2 associated protein 2	Cdk2ap2	100758502	22.85	19.72	21.43	18.33	14.79	16.35	513.45	446.54	479.45	405.62	330.16	366.39
cyclin-dependent kinase 3	Cdk3	100759733	0.21	0.15	0.23	0.29	0.26	0.23	7.60	5.49	9.94	11.59	9.31	12.15
cyclin-dependent kinase 4	Cdk4	100760122	288.84	278.87	293.48	269.32	244.64	261.09	10954.07	10765.37	11417.26	10315.55	9447.36	9996.29
cyclin-dependent kinase 5	Cdk5	100762907	20.97	18.86	25.84	22.52	19.74	21.36	717.76	678.95	927.84	793.86	699.65	789.80
cyclin-dependent kinase 5, regulatory subunit 1 (p35)	Cdk5r1	100773660	0.56	0.54	0.32	0.46	0.40	0.48	56.97	53.07	33.54	44.04	40.36	48.60
cyclin-dependent kinase 5, regulatory subunit 2 (p39)	Cdk5r2	100750997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDK5 regulatory subunit associated protein 1	Cdk5rap1	100773409	16.24	16.33	14.60	17.44	16.54	15.83	952.46	961.70	874.43	1008.26	957.36	915.04
CDK5 regulatory subunit associated protein 2	Cdk5rap2	100764684	17.37	16.99	18.31	22.55	24.57	23.88	2915.87	2931.77	3127.57	3751.42	4105.79	4006.93
CDK5 regulatory subunit associated protein 3	Cdk5rap3	100752708	50.90	50.32	36.23	35.27	29.66	36.00	3022.97	3017.78	2173.65	2088.37	1770.86	2117.03
cyclin-dependent kinase 6	Cdk6	100764515	81.67	82.27	83.24	93.37	108.12	120.34	6168.98	6267.06	6411.65	7069.41	8263.33	9149.48
cyclin-dependent kinase 7	Cdk7	100769780	21.90	21.65	19.92	22.42	21.64	21.33	1010.95	1012.94	906.72	1046.50	1019.46	1004.77
cyclin-dependent kinase 8	Cdk8	100759285	29.16	30.55	28.31	29.98	28.74	30.59	2265.71	2395.56	2237.00	2376.94	2251.10	2352.56
cyclin-dependent kinase 9	Cdk9	100757719	48.03	43.10	47.01	45.47	38.18	36.01	2306.72	2095.43	2304.07	2159.07	1824.68	1753.44
CDK5 regulatory subunit associated protein 1-like 1	Cdkal1	100758711	42.94	41.51	42.77	44.19	48.25	48.87	1386.92	1379.87	1445.79	1466.03	1607.33	1591.74
cyclin-dependent kinase-like 1 (CDC2-related kinase)	Cdkl1	100767891	0.16	0.17	0.16	0.13	0.19	0.17	15.95	13.73	13.66	12.75	21.73	17.76
cyclin-dependent kinase-like 2 (CDC2-related kinase)	Cdkl2	100753865	4.07	3.84	2.83	4.04	5.74	4.94	470.15	469.41	347.78	483.27	688.27	579.50
cyclin-dependent kinase-like 3	Cdkl3	100757962	0.32	0.36	0.42	0.26	0.33	0.38	38.74	46.67	50.93	40.56	41.40	44.86
cyclin-dependent kinase-like 4	Cdkl4	100756171	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
cyclin-dependent kinase-like 5	Cdkl5	100751248	0.17	0.12	0.00	0.00	0.00	0.00	15.19	9.15	0.00	0.00	0.00	0.00
cyclin-dependent kinase inhibitor 1A (p21, Cip1)	Cdkn1a	100689175	36.39	40.32	15.53	13.23	12.96	16.13	1807.70	2000.26	772.58	653.63	635.48	792.60
cyclin-dependent kinase inhibitor 1B (p27, Kip1)	Cdkn1b	100689401	43.91	45.28	55.76	41.95	27.34	29.99	1111.97	1108.11	1471.87	1178.62	970.82	950.56
cyclin-dependent kinase inhibitor 1C (p57, Kip2)	Cdkn1c	103164177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CDKN2A interacting protein	Cdkn2aip	100755619	26.75	28.65	28.61	29.61	35.28	34.12	2643.96	2861.31	2864.25	2970.31	3481.69	3395.65
CDKN2A interacting protein N-terminal like	Cdkn2aipnl	103159798	29.42	30.86	34.08	35.57	42.72	42.87	1278.30	1350.59	1488.02	1539.05	1847.45	1866.54
cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	Cdkn2c	100774733	11.26	10.99	12.03	12.28	14.23	12.83	361.54	357.78	386.29	388.24	445.04	420.60
cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)	Cdkn2d	100758546	8.10	8.32	7.72	7.97	7.20	8.04	219.51	229.67	207.43	206.29	189.40	211.24
cyclin-dependent kinase inhibitor 3	Cdkn3	100752216	118.11	123.32	86.67	94.20	107.14	101.26	2555.85	2690.20	1902.88	1992.18	2270.76	2131.05
cerebral dopamine neurotrophic factor	Cdnf	100751621	3.61	2.98	20.65	22.94	24.22	24.61	104.06	96.08	686.87	762.57	869.39	806.62
cysteine dioxygenase type 1	Cdo1	100760315	0.16	0.10	0.22	0.25	0.19	0.17	6.08	3.66	6.21	10.43	5.17	5.61
cell adhesion associated, oncogene regulated	Cdon	100759140	2.21	2.13	2.04	2.23	3.10	3.01	476.23	479.48	453.36	501.81	675.85	655.20
cysteine-rich, DPF motif domain containing 1	Cdpf1	100759562	5.76	6.55	4.66	4.36	3.85	3.66	390.40	409.94	326.67	294.37	267.03	263.58
cerebellar degeneration-related protein 1, 34kDa	Cdr1	100769322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cerebellar degeneration-related protein 2, 62kDa	Cdr2	100765677	10.49	10.02	10.21	10.36	10.01	9.73	615.23	588.37	612.35	603.80	578.56	573.89
cerebellar degeneration-related protein 2-like	Cdr2l	100758231	8.89	9.22	10.65	9.36	6.70	7.49	695.74	741.18	827.23	740.55	497.83	560.80
CMT1A duplicated region transcript 1	Cdrt1	100761995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	1.87
CMT1A duplicated region transcript 4	Cdrt4	100762581	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93
CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1	Cds1	100761973	6.82	6.83	5.05	5.75	7.16	6.96	792.96	803.40	587.51	676.81	831.09	826.25
CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2	Cds2	100761349	28.65	29.19	29.83	31.21	33.53	34.39	3022.21	3123.92	3223.22	3336.53	3526.20	3636.80
corneodesmosin	Cdsn	100761666	3.49	3.61	1.92	1.32	1.67	1.58	209.63	227.84	129.18	86.92	108.67	107.49
chromatin licensing and DNA replication factor 1	Cdt1	100689460	14.80	15.02	17.86	14.06	9.86	10.35	784.60	776.86	962.62	756.77	581.66	569.21
CDV3 homolog (mouse)	Cdv3	100767533	169.50	161.39	153.25	164.00	159.70	161.38	12828.62	12318.18	11742.69	12576.60	12143.49	12309.60
caudal type homeobox 1	Cdx1	100764671	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
caudal type homeobox 2	Cdx2	100762482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
caudal type homeobox 4	Cdx4	100764476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromodomain protein, Y-like	Cdyl	100763740	13.32	13.58	15.16	15.92	14.63	16.01	1258.56	1290.20	1440.82	1504.28	1377.57	1511.36
chromodomain protein, Y-like 2	Cdyl2	100766529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 16	Ceacam16	100750783	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 19	Ceacam19	100750495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 21	Ceacam21	100775099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CCAAT/enhancer binding protein (C/EBP), delta	Cebpd	100771036	0.34	0.29	0.10	0.00	0.06	0.07	20.51	20.13	12.42	4.64	5.17	5.61
CCAAT/enhancer binding protein (C/EBP), epsilon	Cebpe	100770450	0.46	0.47	0.34	0.35	0.41	0.26	20.51	21.05	19.87	16.22	18.63	12.15
CCAAT/enhancer binding protein (C/EBP), gamma	Cebpg	100770190	29.98	29.94	28.35	27.15	24.89	24.97	1479.58	1464.05	1430.88	1354.78	1253.37	1274.89
CCAAT/enhancer binding protein (C/EBP), zeta	Cebpz	100756756	66.59	63.02	61.64	73.39	70.46	65.45	6542.67	6192.03	6048.96	7082.16	6886.80	6386.60
cat eye syndrome chromosome region, candidate 2	Cecr2	100757228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00

cat eye syndrome chromosome region, candidate 5	Cecr5	100757691	11.72	11.14	12.75	11.58	10.35	11.95	598.52	569.15	658.31	629.29	554.75	619.69
cat eye syndrome chromosome region, candidate 6	Cecr6	100757405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxyl ester lipase	Cel	100771549	0.03	0.00	0.02	0.02	0.00	0.00	2.28	0.92	1.24	1.16	0.00	0.00
chymotrypsin-like elastase family, member 1	Cela1	100750829	0.23	0.09	0.06	0.00	0.00	0.10	5.32	1.83	1.24	0.00	0.00	1.87
chymotrypsin-like elastase family, member 2A	Cela2a	100753261	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	2.32	2.07	0.93
CUGBP, Elav-like family member 1	Celf1	100760547	58.84	59.85	54.44	53.33	51.56	54.77	10081.36	10235.57	9213.80	8983.95	8722.86	9216.78
CUGBP, Elav-like family member 2	Celf2	100769634	0.01	0.01	0.01	0.01	0.00	0.00	1.52	0.92	1.24	1.16	0.00	0.00
CUGBP, Elav-like family member 3	Celf3	100752975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.24	1.16	0.00	1.87
CUGBP, Elav-like family member 4	Celf4	100763521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	2.32	0.00	0.00
CUGBP, Elav-like family member 5	Celf5	100770452	0.00	0.08	0.09	0.00	0.00	0.03	0.76	5.49	7.45	0.00	1.03	0.93
CUGBP, Elav-like family member 6	Celf6	100755645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cadherin, EGF LAG seven-pass G-type receptor 1	Celsr1	103160949	0.07	0.08	0.06	0.05	0.08	0.08	10.63	12.81	13.66	9.27	13.45	14.95
cadherin, EGF LAG seven-pass G-type receptor 2	Celsr2	100751011	0.04	0.03	0.00	0.01	0.01	0.00	10.63	10.98	3.73	5.79	3.10	1.87
cadherin, EGF LAG seven-pass G-type receptor 3	Celsr3	100766515	0.08	0.05	0.09	0.09	0.09	0.09	39.50	32.94	91.91	71.85	68.31	78.51
cell migration inducing protein, hyaluronan binding	Cemip	100760429	0.01	0.00	0.01	0.01	0.00	0.01	2.28	0.00	3.73	2.32	2.07	2.80
cell cycle exit and neuronal differentiation 1	Cend1	100752544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centromere protein A	Cenpa	100689459	68.95	70.92	77.90	79.16	87.22	81.16	3223.48	3298.70	3594.60	3639.01	3933.98	3716.25
centromere protein B, 80kDa	Cenpb	100689274	19.15	18.70	15.68	12.38	12.13	11.19	1108.93	1050.46	886.85	686.08	633.41	618.75
centromere protein C	Cenpc	100761015	11.19	9.78	9.54	12.25	12.89	10.73	1030.69	923.27	881.88	1102.13	1175.74	968.32
centromere protein E, 312kDa	Cenpe	100771167	22.11	20.43	14.33	19.65	21.88	19.40	5288.67	4992.42	3500.20	4784.02	5259.80	4634.09
centromere protein F, 350/400kDa	Cenpf	100752075	12.24	11.54	10.26	13.16	15.46	13.76	3515.91	3346.28	3008.33	3818.64	4430.78	3985.43
centromere protein H	Cenph	100771123	20.68	20.73	21.07	26.74	28.06	27.19	708.65	727.45	744.01	905.12	969.78	937.47
centromere protein I	Cenpi	100771572	10.95	11.46	10.17	11.49	13.70	14.05	882.58	883.92	827.23	921.34	1065.00	1092.63
centromere protein J	Cenpj	100752517	4.15	4.23	4.10	4.94	6.13	5.77	535.48	549.02	532.86	643.20	785.55	750.54
centromere protein K	Cenpk	100760714	15.78	16.42	18.06	21.64	27.18	22.25	502.06	541.70	597.44	690.72	872.49	715.96
centromere protein L	Cenpl	100774360	16.31	16.75	16.96	17.50	19.86	18.11	796.00	820.79	835.92	862.24	960.47	898.22
centromere protein M	Cenpm	100762853	21.29	20.28	22.08	15.94	12.95	13.91	495.22	482.22	464.54	334.93	254.61	290.68
centromere protein N	Cenpn	100765070	16.19	15.44	18.25	19.59	23.24	22.68	550.67	556.34	617.32	603.80	724.49	672.03
centromere protein O	Cenpo	100755730	15.44	16.95	15.94	19.82	20.28	20.21	634.97	678.95	649.61	799.65	813.50	804.75
centromere protein P	Cenpp	100758284	5.43	5.37	5.12	5.77	6.71	6.06	394.20	379.74	353.99	382.44	484.37	413.12
centromere protein Q	Cenpq	100764991	24.81	25.21	26.91	29.66	33.76	29.09	1028.42	1050.46	1151.41	1266.70	1438.63	1235.63
centromere protein T	Cenpt	100753819	31.97	32.07	35.68	35.31	34.57	35.79	1579.84	1583.92	1779.91	1724.47	1734.64	1774.94
centromere protein U	Cenpu	100753571	9.72	9.34	10.81	12.99	12.79	14.04	386.61	375.16	440.94	501.81	541.30	544.91
centromere protein V	Cenpv	100761123	31.98	30.51	46.57	45.14	34.42	38.40	811.95	796.08	1212.28	1153.13	895.26	971.12
centromere protein W	Cenpw	100761050	83.13	87.43	54.10	53.70	64.96	63.70	3536.41	3690.33	2291.65	2243.67	2682.68	2696.52
centrin-1	Centrin-1	100757090	0.00	0.00	0.00	0.00	0.00	0.00						
centrin-1	Centrin-1	100768500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centrin-4	Centrin-2	100757715	2.88	2.72	1.21	1.85	1.96	1.64	72.92	69.54	32.29	49.83	50.71	42.99

centrosomal protein 112kDa	Cep112	100762658	1.96	2.37	2.68	3.11	2.93	3.01	132.92	146.41	175.13	199.33	200.79	184.13
centrosomal protein 120kDa	Cep120	100774588	8.73	8.22	9.22	10.30	12.42	11.00	1236.53	1162.09	1290.53	1437.06	1721.18	1543.14
centrosomal protein 128kDa	Cep128	100752420	4.29	4.09	4.46	5.21	6.42	5.38	626.62	623.14	638.43	786.91	967.71	805.69
centrosomal protein 131kDa	Cep131	100762484	16.51	16.42	18.11	12.74	8.78	8.71	1900.37	1900.52	2122.73	1455.60	1047.41	1042.16
centrosomal protein 135kDa	Cep135	100689465	19.27	19.55	21.17	21.07	25.38	24.84	1430.97	1497.91	1355.12	1583.08	1709.80	1690.82
centrosomal protein 152kDa	Cep152	100760797	6.99	7.32	9.98	11.85	11.39	11.00	1165.89	1224.31	1700.42	1985.23	1904.37	1840.36
centrosomal protein 162kDa	Cep162	100759950	4.48	4.30	2.20	2.88	2.93	2.96	777.01	765.88	380.08	496.02	496.79	503.79
centrosomal protein 164kDa	Cep164	100762565	9.66	9.83	9.92	9.10	8.22	8.89	1739.34	1767.84	1832.08	1649.14	1451.05	1581.46
centrosomal protein 170kDa	Cep170	100771665	31.94	31.12	41.82	46.72	43.99	39.82	4750.92	4638.30	6311.04	6929.18	6425.20	5911.79
centrosomal protein 170B	Cep170 b	100769745	8.46	8.16	8.00	5.68	3.95	4.19	1637.57	1576.60	1577.45	1135.74	777.27	839.33
centrosomal protein 19kDa	Cep19	100751790	8.73	9.53	9.35	9.30	10.37	10.37	410.91	455.69	452.12	451.98	498.86	492.57
centrosomal protein 192kDa	Cep192	100756846	5.09	4.87	4.77	6.20	6.74	6.36	1228.17	1179.48	1189.92	1521.66	1654.94	1541.27
centrosomal protein 250kDa	Cep250	100762321	3.42	3.19	2.66	2.46	2.49	2.78	818.02	767.71	623.53	585.25	592.01	658.94
centrosomal protein 290kDa	Cep290	100753037	3.20	3.13	2.96	3.68	4.60	4.12	740.55	734.77	689.36	847.17	1054.65	953.36
centrosomal protein 350kDa	Cep350	100754786	4.50	4.30	3.87	5.27	5.51	5.42	1360.33	1311.24	1183.71	1595.83	1653.91	1645.95
centrosomal protein 41kDa	Cep41	100757951	9.64	9.50	9.53	9.64	9.40	8.63	1001.07	1018.43	1022.24	1021.01	1007.04	931.87
centrosomal protein 44kDa	Cep44	100755401	13.43	13.06	16.53	16.84	20.26	18.58	695.74	661.57	794.94	822.83	1010.15	901.96
centrosomal protein 55kDa	Cep55	100752217	28.73	28.69	30.08	33.42	39.52	35.04	1916.32	1897.78	1955.04	2170.66	2527.44	2274.99
centrosomal protein 57kDa	Cep57	100762024	23.95	24.13	21.18	25.03	28.78	25.59	2012.78	2037.78	1840.77	2128.94	2426.01	2190.87
centrosomal protein 57kDa-like 1	Cep57l1	100771063	27.58	25.70	25.19	27.84	29.25	27.78	2078.10	1974.64	1940.14	2098.80	2197.28	2113.29
centrosomal protein 63kDa	Cep63	100771874	22.91	23.20	14.19	14.80	13.83	14.36	1370.21	1428.37	839.65	905.12	831.09	857.09
centrosomal protein 68kDa	Cep68	100754661	12.13	11.72	11.97	11.29	10.14	9.71	792.96	768.63	791.21	741.71	675.85	658.01
centrosomal protein 70kDa	Cep70	100767664	5.64	5.36	2.06	2.66	3.17	2.94	429.14	397.12	162.71	194.70	247.36	222.45
centrosomal protein 72kDa	Cep72	100761899	22.73	22.03	22.26	23.21	22.38	23.98	1582.12	1565.62	1570.00	1642.19	1575.25	1701.10
centrosomal protein 76kDa	Cep76	100760887	3.45	3.67	3.57	3.93	4.58	4.28	328.12	350.46	339.09	366.22	426.41	400.04
centrosomal protein 78kDa	Cep78	100761244	5.05	5.51	7.44	6.87	6.76	6.75	327.36	351.37	471.99	436.91	425.38	426.21
centrosomal protein 83kDa	Cep83	100765559	26.44	26.06	26.68	34.64	30.91	28.09	1995.31	1972.81	2049.44	2630.75	2340.10	2093.66
centrosomal protein 85kDa	Cep85	100768859	19.84	20.72	9.96	10.51	11.25	11.55	2279.38	2393.73	1165.08	1230.77	1307.19	1344.06
centrosomal protein 85kDa-like	Cep85l	100763810	1.31	1.55	0.86	0.83	1.00	0.90	189.88	219.61	121.72	122.85	143.86	128.98
centrosomal protein 89kDa	Cep89	100757884	4.72	4.89	5.91	4.94	4.07	4.16	362.30	377.91	435.97	380.13	316.71	325.27
centrosomal protein 95kDa	Cep95	100773998	10.61	10.14	8.53	9.55	10.64	10.20	892.46	874.77	748.98	850.65	938.73	881.39
centrosomal protein 97kDa	Cep97	100757520	4.98	5.08	5.57	6.98	7.12	6.91	435.98	441.96	498.08	596.84	618.92	588.84
choline/ethanolamine phosphotransferase 1	Cept1	100773070	26.45	24.79	25.15	26.04	29.34	26.89	1536.55	1434.77	1458.21	1497.32	1676.68	1562.77
cerberus 1, DAN family BMP antagonist	Cer1	100764648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cerebral endothelial cell adhesion molecule	Cercam	100765284	6.71	7.03	9.15	8.49	6.33	6.57	503.57	511.50	695.57	636.25	470.92	493.51
ceramide kinase	Cerk	100763715	32.70	31.44	23.89	23.56	22.65	25.67	3992.14	3866.93	2957.41	2852.10	2740.64	3124.60
ceramide kinase-like	Cerkl	100762029	0.33	0.42	0.12	0.11	0.32	0.36	21.27	25.62	13.66	12.75	26.91	33.65
ceramide synthase 1	Cers1	100765511	0.43	0.37	0.47	0.44	0.33	0.44	14.43	15.56	19.87	13.91	11.38	15.89
ceramide synthase 2	Cers2	100765986	33.38	32.72	37.06	37.52	35.85	36.48	1841.88	1826.41	2075.53	2096.49	1989.24	1994.59
ceramide synthase 3	Cers3	100770521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ceramide synthase 4	Cers4	100758196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ceramide synthase 5	Cers5	100774213	25.90	25.95	23.36	23.98	25.43	27.65	1241.09	1249.02	1173.77	1190.21	1229.56	1337.51
ceramide synthase 6	Cers6	100761613	19.31	19.10	22.68	24.11	25.19	24.45	3563.00	3539.35	4256.63	4485.02	4652.26	4556.51
carboxylesterase 1	Ces1	100761459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxylesterase 3	Ces3	100757439	0.02	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
carboxylesterase 4A	Ces4a	100764981	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
carboxylesterase 5A	Ces5a	100761747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centrin, EF-hand protein, 2	Cetn2	100768482	33.55	35.37	33.63	34.19	45.06	41.93	972.21	1056.86	999.88	986.24	1295.80	1190.77
centrin, EF-hand protein, 3	Cetn3	100765724	137.68	146.58	126.44	144.76	170.36	154.96	2964.48	3135.82	2726.38	3003.92	3571.74	3269.47
cholesteryl ester transfer protein, plasma	Cetp	100758852	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement factor B	Cfb	100758781	0.04	0.04	0.00	0.02	0.03	0.03	25.82	25.62	26.08	31.29	34.15	40.19
complement factor D (adipsin)	Cfd	100763302	0.00	0.00	0.00	0.00	0.00	0.00	3.80	2.75	1.24	0.00	0.00	0.93
craniofacial development protein 1	Cfdp1	100768565	130.85	128.26	123.03	137.03	126.02	121.06	4258.74	4209.15	3946.11	4347.11	3974.35	3846.17
complement factor H	Cfh	100768853	19.36	19.86	15.54	16.86	20.18	20.37	448.13	458.43	371.38	397.51	475.06	469.20
complement factor I	Cfi	100767614	0.24	0.19	0.23	0.19	0.26	0.25	29.62	31.11	23.60	20.86	24.84	38.32
cofilin 1 (non-muscle)	Cfl1	100760435	1033.41	1005.76	1014.91	911.97	838.64	938.56	31539.87	30830.22	31075.77	27573.02	25596.25	28642.02
cofilin 2 (muscle)	Cfl2	100757641	109.41	120.70	169.53	166.84	177.63	169.87	3792.38	4175.30	5907.37	5839.80	6225.44	5909.92
CASP8 and FADD-like apoptosis regulator	Cflar	100757136	41.94	42.84	34.43	40.48	50.05	51.04	4254.18	4404.06	3686.51	4214.99	5229.79	5280.88
complement factor properdin	Cfp	100763603	0.08	0.07	0.03	0.05	0.02	0.02	3.80	3.66	1.24	2.32	1.03	0.93
cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7)	Cftr	100754506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glycoprotein hormones, alpha polypeptide	Cga	100689452	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.00	1.24	2.32	0.00	0.00
CGG triplet repeat binding protein 1	Cggbp1	100767237	45.17	47.14	53.62	57.33	62.59	65.41	2036.32	2152.16	2432.01	2577.44	2792.39	2958.23
cingulin	Cgn	100754199	0.22	0.20	0.21	0.15	0.19	0.15	33.42	25.62	28.57	24.34	27.94	28.97
cingulin-like 1	Cgnl1	100771153	0.04	0.03	0.00	0.02	0.03	0.01	6.84	6.41	0.00	4.64	5.17	1.87
cell growth regulator with EF-hand domain 1	Cgref1	100771935	0.00	0.04	0.12	0.00	0.05	0.05	0.76	1.83	2.48	0.00	1.03	0.93
cell growth regulator with ring finger domain 1	Cgrrf1	100751644	16.89	16.21	16.12	17.06	16.23	15.77	896.26	860.13	865.73	920.18	905.61	874.85
cholesterol 25-hydroxylase	Ch25h	100762824	0.06	0.07	0.05	0.00	0.00	0.00	1.52	1.83	2.48	0.00	0.00	0.00
ChaC, cation transport regulator homolog 1 (E. coli)	Chac1	100762174	56.83	51.44	39.13	30.37	18.25	19.87	2050.76	1884.97	1417.22	1083.59	654.11	710.35
ChaC, cation transport regulator homolog 2 (E. coli)	Chac2	100768240	7.58	7.95	8.52	10.67	11.41	9.82	306.85	320.26	371.38	427.64	455.39	384.15
chondroadherin	Chad	100758456	0.04	0.01	0.03	0.06	0.04	0.02	6.08	1.83	2.48	4.64	6.21	4.67
chondroadherin-like	Chadl	100763136	0.00	0.00	0.03	0.02	0.04	0.00	1.52	0.92	3.73	3.48	4.14	2.80
chromatin assembly factor 1, subunit A (p150)	Chaf1a	100756533	27.42	27.79	30.36	27.62	22.55	22.93	2586.99	2662.75	2851.83	2573.96	2156.91	2175.91

chromatin assembly factor 1, subunit B (p60)	Chaf1b	100751472	25.36	25.08	32.80	30.21	25.48	28.63	1402.87	1431.11	1891.70	1729.11	1496.59	1590.81
chromosome alignment maintaining phosphoprotein 1	Champ1	100758920	24.17	23.96	25.57	24.98	23.68	25.79	2507.24	2490.72	2674.21	2593.66	2437.39	2690.91
choline O-acetyltransferase	Chat	100756785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain containing 1	Chchd1	100758627	74.01	75.73	89.81	83.35	73.52	69.48	1941.38	1956.34	2281.71	2089.53	1752.23	1666.52
coiled-coil-helix-coiled-coil-helix domain containing 10	Chchd10	100766619	0.06	0.07	0.19	0.09	0.00	0.00	1.52	0.92	3.73	3.48	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain containing 2	Chchd2	100754041	330.25	328.87	321.73	249.31	236.32	238.65	6175.05	6139.87	5989.34	4555.71	4398.69	4450.90
coiled-coil-helix-coiled-coil-helix domain containing 3	Chchd3	100750398	77.08	80.45	89.45	92.25	95.23	98.31	2974.36	3083.66	3423.19	3416.50	3653.50	3682.60
coiled-coil-helix-coiled-coil-helix domain containing 4	Chchd4	100764116	36.06	36.08	35.97	36.65	28.64	30.39	655.48	656.08	698.05	664.06	516.46	572.02
coiled-coil-helix-coiled-coil-helix domain containing 5	Chchd5	100754765	21.08	21.56	23.70	21.67	21.51	22.53	2309.76	2364.45	2620.80	2380.42	2295.60	2427.34
coiled-coil-helix-coiled-coil-helix domain containing 6	Chchd6	100761221	82.85	77.70	75.23	62.18	41.57	47.21	2096.33	1996.60	1865.61	1586.56	1137.45	1282.37
coiled-coil-helix-coiled-coil-helix domain containing 7	Chchd7	100755404	12.88	10.84	16.04	14.48	14.34	16.58	151.15	124.44	185.07	172.68	175.95	200.95
carbonyl reductase 1	Chcr1	100689019	3.00	2.50	3.10	1.98	2.05	2.05	91.90	78.69	78.25	42.88	38.29	42.06
carbonyl reductase 2	Chcr2	100689020	27.93	29.63	31.49	31.68	36.63	34.43	667.63	721.96	760.16	753.30	898.37	851.48
chromodomain helicase DNA binding protein 1	Chd1	100751866	26.31	25.45	24.25	29.07	28.16	25.23	5208.16	5036.34	4849.11	5726.22	5508.20	4956.55
chromodomain helicase DNA binding protein 1-like	Chd1l	100772942	8.67	9.30	11.34	11.74	12.16	10.83	775.49	833.60	996.15	1031.44	1061.90	954.30
chromodomain helicase DNA binding protein 2	Chd2	100756099	18.97	18.24	17.15	19.77	22.60	22.10	5027.39	4933.86	4661.55	5306.69	6039.15	5944.50
chromodomain helicase DNA binding protein 3	Chd3	100755630	17.54	17.58	17.18	16.48	14.82	15.14	3711.11	3801.05	3716.32	3545.14	3130.83	3180.68
chromodomain helicase DNA binding protein 4	Chd4	100754178	62.84	62.95	63.32	64.65	61.03	62.84	12763.30	13003.54	13193.45	13233.71	12449.85	12690.01
chromodomain helicase DNA binding protein 5	Chd5	100766055	8.40	8.54	7.50	6.57	5.81	6.39	2373.56	2411.11	2158.75	1860.07	1661.15	1869.34
chromodomain helicase DNA binding protein 6	Chd6	100770276	10.14	10.07	9.73	10.79	12.03	11.60	3223.48	3192.55	3111.43	3441.99	3819.10	3696.62
chromodomain helicase DNA binding protein 7	Chd7	100755474	2.17	2.27	1.64	1.97	1.52	1.46	655.48	702.75	495.59	623.50	458.50	443.03
chromodomain helicase DNA binding protein 8	Chd8	100750414	25.87	24.86	25.89	28.02	28.13	27.93	6592.04	6365.89	6637.71	7129.68	7137.27	7110.03
chromodomain helicase DNA binding protein 9	Chd9	100769940	3.99	3.68	2.72	3.88	4.06	3.43	1303.37	1234.38	891.82	1286.40	1311.33	1164.60
calponin homology domain containing 2	Chdc2	100762077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
choline dehydrogenase	Chdh	100772204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
checkpoint kinase 1	Chek1	100751099	33.76	31.72	39.27	41.27	45.74	43.19	2533.82	2451.37	2988.46	3108.22	3441.33	3221.81
checkpoint kinase 2	Chek2	100769280	5.15	5.33	6.55	6.90	8.69	7.73	306.09	319.35	385.05	394.03	494.72	442.10
calcium homeostasis endoplasmic reticulum protein	Cherp	100755648	29.31	27.32	24.66	18.07	12.70	12.32	2719.15	2568.50	2326.43	1733.74	1218.18	1194.51
checkpoint with forkhead and ring finger domains, E3 ubiquitin protein ligase	Chfr	100771287	10.37	10.23	8.25	10.21	10.51	10.99	933.47	959.87	785.00	917.86	951.15	993.55

chromogranin A (parathyroid secretory protein 1)	Chga	100766424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromogranin B (secretogranin 1)	Chgb	100773273	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
chitinase 3-like 1 (cartilage glycoprotein-39)	Chi3l1	100760271	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chitinase, acidic	Chia	100750633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich hydrophobic domain 1	Chic1	100764176	1.74	1.64	1.41	1.85	2.13	2.13	104.82	101.57	85.70	104.30	131.44	122.44
cysteine-rich hydrophobic domain 2	Chic2	100765671	29.15	31.97	35.03	33.38	37.13	32.47	331.92	344.97	428.52	394.03	429.52	342.09
chitinase domain containing 1	Chid1	100755120	94.56	95.07	93.56	90.34	74.14	90.13	3840.99	3947.45	3896.43	3674.93	3040.79	3610.63
chitinase 1 (chitotriosidase)	Chit1	100750757	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Chka	100767436	29.86	29.28	51.01	49.77	44.50	47.88	907.65	894.90	1563.79	1522.82	1357.90	1447.80
choline kinase beta	Chkb	100770695	5.46	4.88	5.63	6.87	6.27	6.82	390.40	370.59	376.35	461.25	432.62	458.92
cell adhesion molecule L1-like	Chl1	100760694	0.30	0.30	0.16	0.19	0.11	0.10	51.65	51.24	28.57	35.93	18.63	19.63
choroideremia (Rab escort protein 1)	Chm	100763141	4.91	4.99	5.93	7.13	8.36	8.04	706.37	710.07	829.71	997.83	1175.74	1117.86
choroideremia-like (Rab escort protein 2)	Chml	100772631	5.69	5.27	7.26	8.55	9.88	8.53	890.18	835.43	1147.69	1357.10	1557.65	1362.75
charged multivesicular body protein 1A	Chmp1a	100762678	51.30	52.56	57.16	48.16	42.51	46.10	3164.24	3259.35	3573.48	2970.31	2620.59	2866.63
charged multivesicular body protein 1B	Chmp1b	103164052	20.66	21.25	23.15	19.89	21.15	21.34	1162.10	1197.78	1335.24	1145.01	1220.25	1240.31
charged multivesicular body protein 2A	Chmp2a	100767596	12.00	11.58	15.19	14.49	11.54	12.68	186.85	183.01	226.06	187.75	164.56	198.15
charged multivesicular body protein 2B	Chmp2b	100773840	40.57	42.86	47.65	50.29	57.83	56.17	2293.05	2482.49	2741.29	2825.45	3228.12	3165.73
charged multivesicular body protein 3	Chmp3	100770826	37.47	38.16	41.44	41.18	42.14	42.76	2662.18	2724.05	2959.89	2900.78	2980.76	3025.53
charged multivesicular body protein 4B	Chmp4b	100759419	212.68	222.80	233.07	209.44	174.39	177.87	3638.95	3651.90	3676.58	3185.87	2678.54	2651.66
charged multivesicular body protein 4C	Chmp4c	100759934	0.06	0.03	0.00	0.00	0.06	0.03	2.28	0.92	0.00	0.00	2.07	0.93
charged multivesicular body protein 5	Chmp5	100758690	41.46	41.80	45.31	51.52	59.80	51.42	1625.41	1631.50	1736.44	1936.56	2213.84	1911.40
charged multivesicular body protein 6	Chmp6	100753694	50.22	48.99	52.64	49.55	39.56	44.89	2252.03	2217.13	2372.39	2218.17	1776.04	2008.61
charged multivesicular body protein 7	Chmp7	100770771	23.73	22.37	28.24	29.02	29.88	31.08	1643.64	1570.20	1935.17	1995.66	2084.46	2142.26
chimerin 1	Chn1	100755161	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chimerin 2	Chn2	100757437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chondrolectin	Chodl	100754785	0.00	0.05	0.00	0.00	0.03	0.03	0.76	1.83	0.00	0.00	1.03	0.93
cysteine and histidine-rich domain (CHORD) containing 1	Chordc1	100768748	30.38	33.39	34.71	36.74	40.06	36.25	2001.39	2230.85	2327.67	2410.55	2635.08	2389.95
calcineurin-like EF-hand protein 1	Chp1	100763935	49.23	49.47	60.22	64.75	71.48	71.76	3544.77	3627.19	4347.30	4692.47	5076.61	5153.77
calcineurin-like EF-hand protein 2	Chp2	100759970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chondroitin polymerizing factor	Chpf	100765856	77.18	69.47	87.29	53.96	31.04	35.85	5252.97	4752.68	6004.25	3679.57	2124.83	2465.66
choline phosphotransferase 1	Chpt1	100750762	43.89	44.69	67.32	72.75	85.12	80.20	1752.26	1775.17	2676.70	2835.88	3353.36	3030.20
chromatin accessibility complex 1	Chrac1	100759753	28.34	28.55	31.26	24.73	22.53	23.13	621.30	646.01	694.33	547.01	492.65	525.28
chordin	Chrd	100774612	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
chordin-like 1	Chrdl1	100750419	0.15	0.14	0.05	0.03	0.01	0.01	12.91	10.98	4.97	3.48	1.03	0.93
chordin-like 2	Chrdl2	100756377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
cholinergic receptor, muscarinic 1	Chrm1	100755522	0.00	0.05	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	1.03	0.00
cholinergic receptor, muscarinic 2	Chrm2	100770997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, muscarinic 3	Chrm3	100753955	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, muscarinic 4	Chrm4	100752496	0.06	0.02	0.05	0.07	0.04	0.08	3.80	0.92	2.48	3.48	2.07	3.74

cholinergic receptor, muscarinic 5	Chrm5	100773423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, alpha 1 (muscle)	Chrna1	100755935	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, alpha 10 (neuronal)	Chrna10	100760224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00
cholinergic receptor, nicotinic, alpha 2 (neuronal)	Chrna2	100757795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, alpha 3 (neuronal)	Chrna3	100763280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, alpha 4 (neuronal)	Chrna4	100760001	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
cholinergic receptor, nicotinic, alpha 5 (neuronal)	Chrna5	100762991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, alpha 6 (neuronal)	Chrna6	100769172	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
cholinergic receptor, nicotinic, alpha 9 (neuronal)	Chrna9	100756671	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, beta 1 (muscle)	Chrnb1	100758816	2.42	2.44	1.75	1.40	1.81	1.87	157.22	161.05	110.55	90.40	122.13	128.05
cholinergic receptor, nicotinic, beta 2 (neuronal)	Chrnb2	100761068	0.02	0.06	0.12	0.12	0.03	0.09	2.28	6.41	11.18	11.59	5.17	8.41
cholinergic receptor, nicotinic, beta 3 (neuronal)	Chrnb3	100774746	0.03	0.02	0.10	0.02	0.00	0.04	2.28	0.92	4.97	1.16	0.00	1.87
cholinergic receptor, nicotinic, beta 4 (neuronal)	Chrnb4	100763565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, delta (muscle)	Chrnd	100763831	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholinergic receptor, nicotinic, epsilon (muscle)	Chrne	100769735	0.00	0.00	0.00	0.03	0.00	0.02	3.04	1.83	1.24	3.48	0.00	2.80
cholinergic receptor, nicotinic, gamma (muscle)	Chrng	100764120	0.09	0.00	0.03	0.00	0.00	0.02	6.08	0.00	2.48	0.00	1.03	4.67
carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	Chst1	100774066	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbohydrate sulfotransferase 10	Chst10	100755464	0.00	0.00	0.05	0.00	0.12	0.11	0.00	0.00	1.24	0.00	3.10	5.61
carbohydrate (chondroitin 4) sulfotransferase 11	Chst11	100771304	12.37	12.74	14.45	14.44	14.46	15.10	1754.54	1805.36	2059.38	2038.54	2040.99	2136.65
carbohydrate (chondroitin 4) sulfotransferase 12	Chst12	100762689	6.38	6.22	4.07	3.50	2.63	3.12	288.62	284.58	187.56	158.77	119.02	143.00
carbohydrate (chondroitin 4) sulfotransferase 13	Chst13	100771243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14	Chst14	100753239	7.88	7.59	6.11	4.99	4.26	4.27	341.79	324.84	280.71	225.99	191.47	206.56
carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	Chst15	100768085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2	Chst2	100767419	2.57	3.19	1.58	1.18	1.08	0.81	123.05	149.15	77.01	59.10	51.75	40.19
carbohydrate (chondroitin 6) sulfotransferase 3	Chst3	100758880	0.02	0.01	0.03	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 4	Chst4	100759418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7	Chst7	103163077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9	Chst9	100770625	0.05	0.00	0.00	0.04	0.03	0.00	2.28	1.83	0.00	1.16	1.03	0.00

chondroitin sulfate synthase 1	Chsy1	100770803	17.99	18.31	24.16	24.02	26.10	25.14	1290.46	1343.27	1768.73	1743.02	1876.43	1813.26
CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae)	Chtf18	100761649	8.16	8.60	10.72	7.82	5.66	6.53	782.33	817.12	1016.03	755.62	542.33	621.56
CTF8, chromosome transmission fidelity factor 8 homolog (S. cerevisiae)	Chtf8	100757608	78.47	74.46	78.39	72.88	65.47	68.88	2084.94	1922.49	1919.02	1821.82	1797.77	1894.58
chromatin target of PRMT1	Chtop	100769194	89.67	89.92	92.90	92.02	89.01	93.93	4464.57	4512.03	4656.58	4508.20	4260.00	4492.96
conserved helix-loop-helix ubiquitous kinase	Chuk	100754432	27.10	28.32	34.01	37.52	37.86	37.68	2815.61	2933.60	3523.80	3838.34	3873.95	3886.36
churchill domain containing 1	Churc1	103160311	30.61	31.62	34.39	32.02	41.81	39.19	687.38	713.73	770.09	706.94	909.75	847.75
chymosin	Chymosin	100759177	0.08	0.06	0.04	0.04	0.00	0.03	3.80	2.75	1.24	4.64	0.00	1.87
cytosolic iron-sulfur assembly component 1	Ciao1	100758531	58.41	56.89	75.35	73.85	77.41	75.54	1599.59	1591.24	2086.71	2001.45	2056.52	2060.95
cytokine induced apoptosis inhibitor 1	Ciapin1	100760880	45.62	45.22	59.60	60.81	60.91	65.20	2387.23	2402.88	3172.29	3199.78	3205.35	3387.24
circadian associated repressor of transcription	Ciart	100761544	5.22	4.85	3.85	3.88	3.62	4.25	352.43	335.82	272.02	248.01	225.63	256.10
calcium and integrin binding 1 (calmyrin)	Cib1	100772612	51.18	51.36	60.55	51.69	52.85	53.63	1126.40	1119.09	1306.68	1084.75	1130.21	1151.51
calcium and integrin binding family member 2	Cib2	100753997	4.00	3.75	5.37	4.43	4.24	4.84	243.05	240.65	295.62	232.94	220.45	266.38
calcium and integrin binding family member 3	Cib3	100760089	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
calcium and integrin binding family member 4	Cib4	100760371	2.29	2.41	1.26	1.37	2.17	1.93	223.30	210.46	144.08	112.42	170.77	175.72
capicua transcriptional repressor	Cic	100756465	5.55	5.70	5.34	3.40	2.40	2.63	486.11	497.78	470.75	299.00	207.00	232.73
cell death-inducing DFFA-like effector a	Cidea	100763404	0.04	0.08	0.17	0.11	0.10	0.17	0.76	1.83	4.97	2.32	2.07	4.67
cell death-inducing DFFA-like effector b	Cideb	100769570	0.29	0.46	0.25	0.27	0.31	0.25	15.19	21.96	13.66	16.22	17.59	13.09
cell death-inducing DFFA-like effector c	Cidec	100750457	47.31	44.80	29.07	26.73	26.10	27.21	2340.90	2227.19	1456.97	1335.08	1311.33	1373.96
class II, major histocompatibility complex, transactivator	Ciita	100768306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cartilage intermediate layer protein, nucleotide pyrophosphohydrolase	Cilp	100774209	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cartilage intermediate layer protein 2	Cilp2	103160703	0.22	0.29	0.36	0.29	0.11	0.23	20.51	30.20	23.60	18.54	15.52	15.89
cyclin-dependent kinase 2 interacting protein	Cinp	100755743	29.27	27.23	26.71	27.65	26.05	28.31	638.01	613.07	561.42	567.87	526.81	572.95
CLOCK-interacting pacemaker	Cipc	100762121	13.64	13.50	15.95	17.05	16.28	15.79	1617.82	1579.35	1901.63	1951.62	1860.91	1814.19
corepressor interacting with RBPJ, 1	Cir1	100771162	54.86	53.73	57.56	64.67	63.41	59.52	2854.35	2816.47	3051.81	3328.42	3262.28	3084.41
cold inducible RNA binding protein	Cirbp	100689075	59.93	66.50	64.32	55.18	55.07	58.87	2103.92	2293.99	2230.79	1895.99	1869.19	1976.83
cirrhosis, autosomal recessive 1A (cirhin)	Cirh1a	100757324	76.06	78.26	86.62	93.13	86.38	86.39	5164.11	5445.36	5984.37	6304.52	5823.87	5831.40
CDGSH iron sulfur domain 1	Cisd1	100772922	29.55	30.81	31.92	30.74	31.88	32.78	710.17	733.86	761.40	725.48	756.57	785.12
CDGSH iron sulfur domain 3	Cisd3	100755651	75.62	72.81	50.09	46.36	41.05	46.80	1304.89	1265.49	862.01	782.27	700.69	799.14
cytokine inducible SH2-containing protein	Cish	100774955	2.25	2.15	2.37	2.08	1.96	1.50	123.05	115.29	130.42	112.42	107.64	85.05
citron rho-interacting serine/threonine kinase	Cit	100755517	8.74	8.67	8.68	8.94	8.18	8.44	2463.19	2491.64	2527.65	2522.97	2316.30	2380.60

Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1	Cited1	100759164	5.71	5.82	12.03	8.94	6.23	6.18	304.58	318.43	675.70	509.92	360.18	367.33
Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	Cited2	100773955	21.86	23.03	25.66	26.59	29.07	27.25	1069.43	1077.91	1264.44	1275.97	1540.06	1455.28
CDKN1A interacting zinc finger protein 1	Ciz1	100753565	11.47	10.57	12.98	11.32	8.30	8.34	950.94	926.01	1110.43	985.08	764.85	738.39
cytoskeleton associated protein 2	Ckap2	100771975	24.58	25.71	19.77	24.22	27.63	24.05	1545.66	1647.98	1259.48	1511.23	1716.01	1494.54
cytoskeleton associated protein 2-like	Ckap2l	100754478	8.78	8.48	8.87	10.90	12.83	11.30	872.71	834.51	901.76	1078.95	1229.56	1111.32
cytoskeleton-associated protein 4	Ckap4	100766532	79.34	84.78	103.23	101.05	90.85	91.24	6386.21	6834.39	8376.63	8140.25	7254.22	7357.72
cytoskeleton associated protein 5	Ckap5	100755237	42.67	42.52	36.59	43.63	48.07	45.53	8784.83	8876.74	7638.83	8973.52	9844.79	9316.79
creatine kinase, brain	Ckb	100774847	0.15	0.12	0.16	0.36	0.19	0.19	11.39	9.15	18.63	22.02	13.45	19.63
chemokine-like factor	Cklf	100766496	92.84	87.98	101.19	98.81	111.42	118.73	1449.20	1372.55	1573.72	1542.52	1726.36	1814.19
creatine kinase, muscle	Ckm	100754895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
creatine kinase, mitochondrial 1B	Ckmt1b	100754659	0.27	0.25	0.03	0.03	0.13	0.14	10.63	10.07	2.48	2.32	5.17	5.61
creatine kinase, mitochondrial 2 (sarcomeric)	Ckmt2	100752172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
CDC28 protein kinase regulatory subunit 2	Cks2	100760104	132.88	136.93	146.31	140.40	172.33	169.48	1475.78	1515.30	1552.61	1508.91	1851.59	1775.87
cytoplasmic linker associated protein 1	Clasp1	100756713	9.60	10.11	11.03	12.10	12.10	11.99	1750.74	1840.13	2018.39	2194.99	2208.66	2185.26
cytoplasmic linker associated protein 2	Clasp2	100769743	12.11	12.76	14.02	15.36	17.83	16.73	2163.93	2304.97	2535.10	2757.07	3168.09	3019.92
claudin-1	Claudin-18	100755597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin-4	Claudin-4	100770792	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chloride channel accessory 1	Clca1	100754570	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
chloride channel accessory 2	Clca2	100754285	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
chloride channel CLIC-like 1	Clcc1	100768001	29.54	29.43	30.78	34.79	34.73	34.13	2789.03	2846.67	2989.70	3362.03	3307.82	3252.65
cardiotrophin-like cytokine factor 1	Clcf1	100761392	7.80	6.67	9.62	8.54	7.45	7.75	407.11	348.63	504.29	443.87	379.84	408.45
chloride channel, voltage-sensitive 1	Clcn1	100751277	0.02	0.02	0.00	0.01	0.03	0.01	2.28	3.66	0.00	1.16	3.10	4.67
chloride channel, voltage-sensitive 2	Clcn2	100769999	1.83	1.77	1.42	1.94	1.79	1.78	195.96	197.65	158.99	219.04	183.19	186.93
chloride channel, voltage-sensitive 3	Clcn3	100759588	20.87	20.49	22.70	23.60	24.15	25.44	3199.18	3192.55	3510.14	3584.54	3687.66	3935.89
chloride channel, voltage-sensitive 4	Clcn4	100762547	3.81	3.35	3.48	3.51	4.01	3.89	543.83	483.14	506.77	508.77	571.31	564.54
chloride channel, voltage-sensitive 5	Clcn5	100754025	0.10	0.12	0.01	0.01	0.03	0.03	25.82	30.20	2.48	3.48	8.28	8.41
chloride channel, voltage-sensitive 6	Clcn6	100774640	6.99	7.20	6.58	6.62	6.14	5.79	1122.60	1162.09	1055.77	1074.32	979.10	937.47
chloride channel, voltage-sensitive 7	Clcn7	100773701	13.45	12.43	12.99	12.79	10.99	11.78	1214.50	1139.22	1197.37	1201.80	1023.60	1106.65
claudin 1	Cldn1	100771737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 10	Cldn10	100762571	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.93
claudin 11	Cldn11	100765050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
claudin 12	Cldn12	100769202	8.99	8.88	7.82	8.83	9.09	9.32	937.27	934.25	833.44	927.14	950.12	978.60
claudin 14	Cldn14	100751181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 15	Cldn15	100758840	0.14	0.12	0.07	0.12	0.08	0.10	5.32	4.58	2.48	8.11	4.14	5.61
claudin 16	Cldn16	100751792	0.00	0.12	0.00	0.15	0.07	0.06	1.52	1.83	0.00	3.48	1.03	0.93
claudin 17	Cldn17	100771924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 18	Cldn18	100769098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

claudin 19	Cldn19	100768379	0.00	0.13	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
claudin 2	Cldn2	100762065	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 20	Cldn20	100771740	0.14	0.17	0.14	0.11	0.18	0.21	23.55	28.37	24.84	18.54	31.05	34.58
claudin 22	Cldn22	100752077	5.84	5.19	5.79	6.38	7.81	8.44	274.95	251.63	263.32	275.82	318.78	369.19
claudin 23	Cldn23	100770787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 25	Cldn25	100756403	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
claudin 3	Cldn3	100766489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 4	Cldn4	100768680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 5	Cldn5	100769480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 6	Cldn6	100769217	0.70	0.72	0.68	0.49	0.50	0.79	41.77	44.84	38.50	28.97	30.01	45.80
claudin 7	Cldn7	100766949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
claudin 8	Cldn8	100772201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin 9	Cldn9	100769504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin domain containing 1	Cldnd1	100770002	81.12	83.94	89.43	94.89	105.97	108.88	3060.94	3160.53	3400.83	3548.61	3947.44	4054.60
claudin domain containing 2	Cldnd2	100752776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 11, member A	Clec11a	100755020	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
C-type lectin domain family 12, member A	Clec12a	100769792	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 12, member B	Clec12b	100772182	0.05	0.00	0.00	0.00	0.04	0.00	1.52	0.00	0.00	0.00	1.03	0.00
C-type lectin domain family 14, member A	Clec14a	100766342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 16, member A	Clec16a	100768590	6.23	6.00	8.48	8.68	7.68	7.77	1158.30	1109.94	1496.71	1550.63	1382.74	1393.59
C-type lectin domain family 19, member A	Clec19a	103158746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 1, member A	Clec1a	100772475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 1, member B	Clec1b	100770085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2, member L	Clec2l	100770823	0.48	0.48	0.80	0.67	0.43	0.43	37.98	30.20	60.86	54.47	45.54	46.73
C-type lectin domain family 3, member A	Clec3a	100762318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 3, member B	Clec3b	100760600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
C-type lectin domain family 4, member D	Clec4d	100775089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 4, member E	Clec4e	100773355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 4, member F	Clec4f	100754159	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
C-type lectin domain family 4, member G	Clec4g	100772659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 5, member A	Clec5a	100754713	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
C-type lectin domain family 6, member A	Clec6a	100772671	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 7, member A	Clec7a	100772766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C-type lectin domain family 9, member A	Clec9a	100770747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calmegin	Clgn	100773546	0.03	0.02	0.00	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	0.00
clathrin heavy chain linker domain containing 1	Clhc1	100764559	3.14	3.11	2.67	2.69	2.81	3.40	203.56	194.90	175.13	184.27	186.30	208.43
chloride intracellular channel 1	Clic1	100761384	261.15	257.22	250.99	257.53	253.50	272.26	7595.39	7532.56	7291.05	7323.21	7213.85	7814.77
chloride intracellular channel 3	Clic3	100763283	0.00	0.06	0.00	0.08	0.00	0.00	4.56	4.58	2.48	2.32	1.03	2.80
chloride intracellular channel 4	Clic4	100758280	56.16	55.92	50.25	53.31	55.61	57.35	6447.73	6437.26	5825.39	6133.00	6344.47	6614.66
chloride intracellular channel 6	Clic6	100757995	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	0.00
clathrin interactor 1	Clint1	100761656	27.31	26.00	25.16	26.67	26.09	25.45	2590.79	2471.51	2424.55	2539.19	2462.23	2415.19
CAP-GLY domain containing linker protein 1	Clip1	100769657	20.58	19.52	20.88	24.60	22.70	22.57	3694.40	3543.92	3784.64	4447.93	4050.94	4049.92
CAP-GLY domain containing linker protein 2	Clip2	100769773	11.26	10.26	12.43	11.15	8.16	8.39	1391.48	1308.50	1570.00	1379.11	1025.67	1060.85
CAP-GLY domain containing linker protein 3	Clip3	100771592	0.00	0.00	0.00	0.00	0.00	0.00	3.04	3.66	7.45	3.48	4.14	5.61
CAP-GLY domain containing linker protein family, member 4	Clip4	100754754	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDC-like kinase 1	Clk1	100758582	33.97	32.47	29.44	33.90	36.21	33.28	1901.13	1793.47	1624.65	1884.40	2013.05	1866.54
CDC-like kinase 2	Clk2	100755756	19.07	17.81	22.05	21.09	20.02	20.47	1107.41	1034.90	1278.11	1226.14	1201.62	1199.18
CDC-like kinase 3	Clk3	100756143	35.34	35.17	33.83	30.36	24.78	26.36	1947.46	1988.37	1923.99	1729.11	1374.46	1437.52
CDC-like kinase 4	Clk4	100759687	8.84	8.77	7.92	8.53	11.54	10.29	558.26	539.87	471.99	530.79	694.48	624.36
calmin (calponin-like, transmembrane)	Clmn	100768555	0.02	0.03	0.00	0.01	0.00	0.00	1.52	3.66	0.00	1.16	0.00	1.87
CXADR-like membrane protein	Clmp	100762282	4.76	5.37	6.74	6.58	6.35	6.68	382.81	420.92	534.10	548.17	515.42	534.63
ceroid-lipofuscinosis, neuronal 3	Cln3	100754370	9.55	8.68	5.63	5.61	5.66	4.98	526.36	496.86	322.94	290.89	301.18	261.71
ceroid-lipofuscinosis, neuronal 5	Cln5	100763877	19.65	20.11	15.43	19.17	20.09	20.03	1154.50	1183.14	909.21	1117.20	1164.36	1166.47
ceroid-lipofuscinosis, neuronal 6, late infantile, variant	Cln6	100760975	8.78	9.21	8.24	9.32	9.19	9.22	512.69	534.38	474.48	531.94	521.63	524.35
ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	Cln8	100757767	6.26	6.59	7.77	6.41	5.92	6.20	410.91	430.98	511.74	427.64	383.98	410.32
cytokine-dependent hematopoietic cell linker	Clnk	100767591	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chloride channel, nucleotide-sensitive, 1A	Clns1a	100768284	110.18	112.16	90.49	93.90	98.68	98.87	4426.59	4514.78	3630.62	3706.23	3937.09	3939.63
clock circadian regulator	Clock	100770092	14.53	13.99	13.97	15.90	16.38	15.99	3197.66	3058.96	3096.52	3546.29	3534.48	3561.09
cleavage and polyadenylation factor I subunit 1	Clp1	100755872	20.70	19.04	19.93	19.00	22.20	19.60	1014.74	940.65	983.73	932.93	1088.81	968.32
ClpB caseinolytic peptidase B homolog (E. coli)	Clpb	100772391	40.77	41.16	44.38	44.17	38.28	39.19	2589.27	2593.21	2787.24	2783.73	2434.29	2457.25
caseinolytic mitochondrial matrix peptidase proteolytic subunit	Clpp	100761651	101.16	92.54	98.93	90.05	67.03	75.16	2667.50	2459.61	2594.72	2403.60	1875.40	2033.84
colipase, pancreatic	Clps	100760027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
colipase-like 2	Clpsl2	100760322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cleft lip and palate associated transmembrane protein 1	Clptm1	100752525	17.39	16.63	15.27	13.81	9.80	9.99	1342.11	1297.52	1184.95	1069.68	764.85	775.78
CLPTM1-like	Clptm1l	100773964	96.00	92.56	95.03	89.92	89.97	93.53	5991.25	5861.70	5966.99	5595.27	5672.76	5837.95
caseinolytic mitochondrial matrix peptidase chaperone subunit	Clpx	100774494	18.01	19.63	23.40	24.34	28.41	26.91	1287.42	1402.75	1659.43	1710.57	1999.59	1915.14
clarin 1	Clrn1	100768820	0.17	0.45	0.14	0.18	0.17	0.26	15.19	17.39	14.91	11.59	12.42	12.15

clarin 2	Clrn2	100769210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
clarin 3	Clrn3	100755717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claspin	Clspn	100768047	9.60	9.36	10.22	11.43	12.82	11.89	1474.27	1462.22	1606.02	1763.88	1970.61	1836.63
calsyntenin 1	Clstn1	100771175	47.97	45.93	53.39	49.61	40.72	45.15	6319.37	6115.17	7190.44	6556.01	5446.10	6017.40
calsyntenin 2	Clstn2	100763054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calsyntenin 3	Clstn3	100760360	0.10	0.11	0.18	0.14	0.14	0.12	9.87	14.64	19.87	17.38	13.45	13.09
clathrin, light chain A	Clta	100758987	103.99	105.10	112.42	107.59	110.97	117.35	1888.21	1913.34	2023.36	1879.77	1955.09	2074.03
clathrin, light chain B	Cltb	100767928	34.37	33.46	48.14	40.65	36.88	40.52	732.20	708.24	1008.57	830.95	759.68	847.75
clathrin, heavy chain (Hc)	Cltc	100756644	62.91	62.96	32.95	35.99	38.82	39.11	9846.67	9843.02	5177.02	5582.52	5978.08	6088.44
clusterin	Clu	100756447	127.37	124.19	212.55	223.35	169.11	179.55	5866.68	5759.22	9817.45	10035.09	7563.68	8037.22
clusterin associated protein 1	Cluap1	100764485	15.31	15.67	16.61	18.74	21.17	19.84	754.98	799.74	821.02	920.18	1013.25	955.23
clustered mitochondria (cluA/CLU1) homolog	Cluh	100766235	17.09	15.66	16.24	15.56	11.56	12.70	2685.73	2509.02	2567.39	2454.59	1816.40	2016.08
clusterin-like 1 (retinal)	Clul1	100754851	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
clavesin 2	Clvs2	100752437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
citrate lyase beta like	Clybl	100767276	17.22	16.38	16.39	18.55	18.33	18.94	515.73	501.44	479.45	534.26	539.23	541.17
cytidine monophospho-N-acetylneuraminic acid hydroxylase	Cmah	100689391	0.53	0.56	0.55	0.74	0.84	0.55	47.09	42.09	32.29	55.63	63.13	39.26
cytidine monophosphate N-acetylneuraminic acid synthetase	Cmas	100773134	119.34	121.66	129.48	136.85	142.51	143.81	4745.60	4880.79	5232.91	5488.64	5591.00	5645.40
carboxymethylenebutenolidase homolog (Pseudomonas)	Cmbl	100757587	0.79	0.73	1.46	1.30	1.16	1.20	59.24	45.75	68.31	77.65	57.96	72.90
C-x(9)-C motif containing 1	Cmc1	100753575	28.43	31.58	31.53	32.51	39.89	41.61	390.40	415.43	442.18	435.75	550.61	551.46
C-x(9)-C motif containing 2	Cmc2	100764782	20.09	20.80	20.50	23.73	28.77	27.35	638.77	665.23	653.34	747.50	876.63	855.22
C-x(9)-C motif containing 4	Cmc4	100754531	5.54	8.89	4.25	4.90	7.00	5.69	6.84	5.49	4.97	3.48	0.00	1.87
c-Maf inducing protein	Cmip	100759767	11.56	10.36	11.10	9.21	6.28	7.22	709.41	653.33	684.39	557.44	418.13	457.99
chemokine-like receptor 1	Cmklr1	100760709	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytidine monophosphate (UMP-CMP) kinase 1, cytosolic	Cmpk1	100758717	11.90	13.03	12.67	13.41	16.38	14.51	947.15	1031.24	1007.33	1061.57	1291.66	1150.58
cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	Cmpk2	100754791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cms1 ribosomal small subunit homolog (yeast)	Cmss1	100757899	42.10	41.26	45.51	47.50	45.90	46.14	1246.40	1202.35	1332.76	1351.30	1324.78	1331.90
CKLF-like MARVEL transmembrane domain containing 1	Cmtm1	103163017	0.66	0.39	0.93	1.01	0.93	0.83	30.38	27.45	45.96	46.36	45.54	53.28
CKLF-like MARVEL transmembrane domain containing 3	Cmtm3	100765909	29.53	27.66	32.46	31.21	32.41	32.74	1352.74	1282.88	1501.68	1445.17	1460.37	1484.26
CKLF-like MARVEL transmembrane domain containing 4	Cmtm4	100768129	8.24	8.66	7.99	8.93	8.88	9.13	330.40	344.97	337.85	366.22	366.39	366.39
CKLF-like MARVEL transmembrane domain containing 5	Cmtm5	100767104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CKLF-like MARVEL transmembrane domain containing 6	Cmtm6	100768322	37.78	37.29	44.30	44.72	46.50	47.99	3684.52	3643.66	4359.72	4371.45	4514.61	4707.00
CKLF-like MARVEL transmembrane domain containing 7	Cmtm7	100768605	68.58	68.16	72.04	66.44	53.75	55.56	1530.47	1518.96	1640.80	1491.53	1180.92	1223.48
CKLF-like MARVEL transmembrane domain containing 8	Cmtm8	100768898	0.04	0.05	0.13	0.06	0.17	0.05	2.28	2.75	4.97	2.32	4.14	0.93
cap methyltransferase 1	Cmtr1	100755381	25.57	25.57	26.33	28.19	28.01	28.91	2902.96	2931.77	3035.66	3203.25	3168.09	3312.47
cap methyltransferase 2	Cmtr2	100754099	11.44	11.17	13.44	13.57	15.84	15.57	1047.40	1024.84	1239.60	1248.16	1448.98	1432.85
cardiomyopathy associated 5	Cmya5	100761385	0.05	0.04	0.08	0.06	0.08	0.11	16.71	12.81	27.33	22.02	24.84	37.39

cyclic nucleotide binding domain containing 1	Cnbd1	100763226	0.10	0.07	0.10	0.03	0.03	0.02	5.32	4.58	2.48	1.16	1.03	0.93
cyclic nucleotide binding domain containing 2	Cnbd2	100751515	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
CCHC-type zinc finger, nucleic acid binding protein	Cnbp	100689247	510.30	523.86	570.67	599.43	586.07	568.76	16207.05	16610.60	18043.80	19065.39	18011.87	18295.22
carnosine dipeptidase 1 (metallopeptidase M20 family)	Cndp1	100761203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
CNDP dipeptidase 2 (metallopeptidase M20 family)	Cndp2	100760626	81.85	77.05	89.34	88.90	89.00	96.94	3562.24	3375.56	3937.42	3907.88	4013.68	4255.55
CTD nuclear envelope phosphatase 1 regulatory subunit 1	Cnep1r1	100759409	9.13	7.55	10.36	7.02	10.07	11.39	233.94	223.27	264.56	242.21	294.97	288.81
cyclic nucleotide gated channel alpha 1	Cnga1	100768599	0.12	0.05	0.10	0.03	0.08	0.05	7.60	2.75	3.73	2.32	4.14	1.87
cyclic nucleotide gated channel alpha 2	Cnga2	100771809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclic nucleotide gated channel alpha 3	Cnga3	100771361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclic nucleotide gated channel alpha 4	Cnga4	100753462	0.07	0.02	0.03	0.03	0.00	0.00	5.32	2.75	1.24	2.32	0.00	0.93
cyclic nucleotide gated channel beta 3	Cngb3	100757356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cornichon family AMPA receptor auxiliary protein 1	Cnih1	103160710	204.78	214.61	232.35	238.30	271.61	262.80	5655.53	6002.62	6590.51	6689.29	7595.76	7352.11
cornichon family AMPA receptor auxiliary protein 2	Cnih2	100768448	0.57	0.88	0.46	0.34	0.46	0.62	22.79	41.18	17.39	19.70	22.77	26.17
cornichon family AMPA receptor auxiliary protein 3	Cnih3	100759925	0.03	0.03	0.05	0.00	0.07	0.04	1.52	0.92	1.24	2.32	3.10	0.93
cornichon family AMPA receptor auxiliary protein 4	Cnih4	100760720	60.81	59.59	88.86	90.25	115.84	114.92	1753.78	1697.39	2482.93	2485.88	3256.07	3256.39
connector enhancer of kinase suppressor of Ras 1	Cnksr1	100769136	4.94	4.82	2.09	2.04	2.12	2.23	454.96	445.62	226.06	198.18	191.47	216.84
connector enhancer of kinase suppressor of Ras 2	Cnksr2	100752301	1.22	1.15	1.59	1.66	1.88	1.92	173.93	165.62	231.03	232.94	270.13	280.40
CNKSR family member 3	Cnksr3	100774635	4.76	4.71	5.39	6.03	5.02	5.05	376.73	370.59	447.15	485.59	415.03	416.86
calponin 1, basic, smooth muscle	Cnn1	100753310	0.23	0.20	0.05	0.05	0.05	0.00	7.60	6.41	1.24	1.16	2.07	0.00
calponin 2	Cnn2	100754225	110.75	110.65	127.29	119.61	110.28	113.91	6301.14	6310.07	7298.50	6783.16	6227.51	6419.31
calponin 3, acidic	Cnn3	100773931	168.74	178.45	169.84	172.44	173.19	171.31	7245.24	7652.43	7174.29	7373.05	7256.29	7330.61
cyclin M1	Cnnm1	100768398	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
cyclin M3	Cnnm3	100772518	8.25	8.21	11.09	10.16	9.56	9.54	730.68	725.62	1014.78	939.88	900.44	900.09
cyclin M4	Cnnm4	100772810	7.74	7.84	10.94	10.69	11.53	12.13	798.28	804.31	1146.45	1098.66	1196.44	1265.54
CCR4-NOT transcription complex, subunit 1	Cnot1	100761778	40.61	40.43	38.53	43.00	43.95	43.66	9603.61	9722.23	9326.83	10242.53	10409.89	10277.63
CCR4-NOT transcription complex, subunit 10	Cnot10	100770796	33.76	30.44	37.26	42.30	40.62	42.26	2612.06	2434.90	2935.05	3270.47	3133.94	3188.16
CCR4-NOT transcription complex, subunit 11	Cnot11	100760179	26.41	26.64	29.36	32.53	35.93	34.26	1439.33	1475.03	1643.28	1811.39	1960.26	1868.40
CCR4-NOT transcription complex, subunit 3	Cnot3	100765854	3.68	3.44	3.86	2.73	2.34	1.99	511.17	476.73	581.30	403.30	359.14	300.03
CCR4-NOT transcription complex, subunit 4	Cnot4	100761964	12.13	12.37	12.40	12.92	12.60	11.41	1149.18	1165.75	1193.65	1219.18	1181.95	1075.80
CCR4-NOT transcription complex, subunit 6	Cnot6	100764369	8.37	8.43	8.52	9.49	10.34	9.80	1209.19	1225.23	1235.88	1362.89	1489.35	1419.76

CCR4-NOT transcription complex, subunit 6-like	Cnot6l	100769928	8.81	8.86	10.12	12.09	13.11	12.21	2277.86	2285.75	2643.16	3153.42	3370.95	3155.44
CCR4-NOT transcription complex, subunit 7	Cnot7	100773091	36.91	40.15	40.94	42.82	47.78	43.98	2294.57	2544.71	2501.56	2701.44	2988.01	2803.07
CCR4-NOT transcription complex, subunit 8	Cnot8	100770253	15.02	15.29	17.38	16.71	16.44	17.35	920.56	949.80	1080.62	1040.71	1009.11	1052.44
2',3'-cyclic nucleotide 3' phosphodiesterase	Cnp	100753220	0.06	0.07	0.02	0.02	0.02	0.06	6.08	4.58	2.48	2.32	1.03	4.67
cyclin Pas1/PHO80 domain containing 1	Cnppd1	100768844	49.40	49.47	54.97	52.48	51.59	57.34	3985.30	3962.10	4440.46	4137.34	4047.83	4509.78
canopy FGF signaling regulator 1	Cnpy1	100772238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
canopy FGF signaling regulator 2	Cnpy2	100765645	118.30	113.21	132.40	132.25	118.69	127.98	2865.74	2723.14	3117.64	2958.72	2640.25	2849.81
canopy FGF signaling regulator 3	Cnpy3	100769298	39.62	40.85	36.23	29.86	23.72	26.84	1896.57	1973.73	1758.79	1419.68	1152.97	1289.84
canopy FGF signaling regulator 4	Cnpy4	100750605	10.90	10.74	11.09	13.12	14.86	14.22	501.30	492.29	501.80	599.16	700.69	655.20
cannabinoid receptor 1 (brain)	Cnr1	100768005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cannabinoid receptor 2 (macrophage)	Cnr2	100752745	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
cannabinoid receptor interacting protein 1	Cnrip1	100773416	33.17	32.20	30.11	30.71	33.41	35.60	1520.60	1471.37	1377.47	1373.32	1487.28	1588.94
consortin, connexin sorting protein	Cnst	100765705	5.47	5.59	6.14	6.70	7.64	8.26	602.31	616.73	688.12	748.66	855.93	922.52
cyclin N-terminal domain containing 1	Cntd1	100761754	3.56	3.56	2.96	2.92	3.63	3.60	227.86	216.86	157.75	169.20	215.28	206.56
ciliary neurotrophic factor	Cntf	100774933	0.20	0.12	0.29	0.57	0.61	0.35	22.79	12.81	23.60	46.36	50.71	28.04
ciliary neurotrophic factor receptor	Cntfr	100753725	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centlein, centrosomal protein	Cntln	100755760	7.11	6.90	6.13	8.25	9.26	7.87	609.91	581.96	531.61	693.03	766.92	650.53
contactin 2 (axonal)	Cntn2	100753717	0.03	0.03	0.01	0.00	0.00	0.00	3.80	2.75	1.24	0.00	0.00	0.00
contactin 3 (plasmacytoma associated)	Cntn3	100757650	0.10	0.15	0.00	0.00	0.00	0.00	9.11	7.32	0.00	0.00	0.00	0.00
contactin 4	Cntn4	100765906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
contactin 5	Cntn5	100762864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
contactin 6	Cntn6	100772078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
contactin associated protein 1	Cntnap1	100751740	7.25	7.19	6.03	5.64	4.73	5.15	934.99	931.50	767.61	732.44	625.13	653.33
contactin associated protein-like 2	Cntnap2	100761620	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.58	0.00	0.00	0.00	0.00
contactin associated protein-like 4	Cntnap4	100760772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
contactin associated protein-like 5	Cntnap5	100766518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centriolin	Cntrl	100753057	17.83	17.17	15.02	18.48	20.13	18.89	3455.14	3337.13	3019.51	3663.35	3964.00	3707.83
centrobin, centrosomal BRCA2 interacting protein	Cntrob	100755050	5.91	6.05	5.01	4.69	3.49	3.80	604.59	653.33	541.55	507.61	405.71	421.54
CoA synthase	Coasy	100757898	48.95	47.54	30.64	26.17	21.23	22.99	3100.44	3015.04	1930.20	1656.10	1351.69	1487.06
cordon-bleu WH2 repeat protein	Cobl	100761073	0.04	0.04	0.04	0.05	0.08	0.04	6.84	6.41	6.21	6.95	12.42	10.28
cordon-bleu WH2 repeat protein-like 1	Coblll1	100753532	20.99	20.69	26.35	29.68	32.44	30.86	2899.16	2852.16	3684.03	4099.10	4436.99	4267.70
cochlin	Coch	100765512	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
component of oligomeric golgi complex 1	Cog1	100752570	18.23	18.40	19.68	19.57	16.90	17.37	2201.14	2218.04	2417.10	2386.22	2009.94	2102.07
component of oligomeric golgi complex 2	Cog2	100767234	13.85	14.09	15.36	16.61	15.34	15.97	1206.15	1243.53	1377.47	1447.49	1342.38	1397.33
component of oligomeric golgi complex 3	Cog3	100770618	8.87	8.32	8.84	9.43	10.50	10.26	1091.46	1064.18	1095.52	1170.51	1267.86	1243.11

component of oligomeric golgi complex 4	Cog4	100752814	11.21	11.02	10.43	11.68	12.55	14.00	959.30	935.16	904.24	1018.69	1111.58	1188.90
component of oligomeric golgi complex 6	Cog6	100771724	21.50	23.01	22.80	24.81	24.05	25.07	1853.28	1949.02	1906.60	2082.58	2023.40	2105.81
component of oligomeric golgi complex 7	Cog7	100754278	15.11	14.82	15.60	14.13	14.24	13.80	1259.32	1262.75	1324.06	1189.05	1187.13	1154.32
component of oligomeric golgi complex 8	Cog8	100759350	9.19	8.80	8.45	8.93	8.02	8.23	545.35	531.63	506.77	524.99	465.74	488.83
coilin	Coil	100760263	9.33	9.83	5.03	4.82	4.99	4.75	701.81	741.18	373.87	363.90	371.56	355.17
collagen, type X, alpha 1	Col10a1	100750863	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
collagen, type XI, alpha 1	Col11a1	100768858	0.02	0.02	0.00	0.00	0.00	0.00	4.56	3.66	0.00	0.00	0.00	0.00
collagen, type XI, alpha 2	Col11a2	100766812	0.06	0.08	0.02	0.02	0.01	0.00	11.39	12.81	4.97	8.11	2.07	0.00
collagen, type XII, alpha 1	Col12a1	100752735	12.92	13.51	11.83	13.19	8.92	8.70	2031.77	2091.77	1726.50	1892.52	1295.80	1347.79
collagen, type XIII, alpha 1	Col13a1	100769753	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
collagen, type XIV, alpha 1	Col14a1	103158800	0.03	0.40	0.00	0.68	0.04	0.04	0.76	5.49	0.00	3.48	1.03	0.93
collagen, type XV, alpha 1	Col15a1	100772437	0.02	0.01	0.00	0.00	0.01	0.01	3.04	0.92	1.24	0.00	1.03	0.93
collagen, type XVI, alpha 1	Col16a1	100768792	7.33	7.70	8.03	5.60	3.05	3.43	1263.87	1341.44	1406.04	986.24	568.21	630.90
collagen, type XVII, alpha 1	Col17a1	100766261	0.66	0.63	0.36	0.27	0.45	0.45	116.21	113.46	70.80	52.15	72.45	79.45
collagen, type XVIII, alpha 1	Col18a1	100764844	0.47	0.44	0.07	0.12	0.05	0.06	87.35	80.52	16.15	20.86	11.38	14.02
collagen, type XIX, alpha 1	Col19a1	100755518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen, type I, alpha 1	Col1a1	100759814	0.04	0.05	0.00	0.00	0.00	0.00	5.32	6.41	0.00	0.00	0.00	0.00
collagen, type I, alpha 2	Col1a2	100766269	0.01	0.01	0.00	0.00	0.01	0.00	2.28	1.83	0.00	0.00	1.03	0.93
collagen, type XX, alpha 1	Col20a1	100759714	0.01	0.00	0.01	0.00	0.02	0.00	4.56	3.66	2.48	6.95	5.17	5.61
collagen, type XXII, alpha 1	Col22a1	100766816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen, type XXIII, alpha 1	Col23a1	100768117	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	1.16	1.03	0.93
collagen, type XXV, alpha 1	Col25a1	100758217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen, type XXVI, alpha 1	Col26a1	100768133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen, type XXVII, alpha 1	Col27a1	100750399	0.92	0.88	0.72	0.43	0.38	0.34	178.49	172.94	151.53	103.14	81.76	69.17
collagen, type XXVIII, alpha 1	Col28a1	100760882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen, type II, alpha 1	Col2a1	100755037	0.00	0.00	0.00	0.00	0.00	0.00	5.32	4.58	1.24	5.79	2.07	2.80
collagen, type III, alpha 1	Col3a1	100753589	27.10	26.15	34.24	28.75	16.95	18.88	4217.72	4139.61	5403.08	4482.70	2604.03	2872.24
collagen, type IV, alpha 1	Col4a1	100757740	0.38	0.41	0.40	0.29	0.13	0.24	82.03	86.93	79.49	60.26	33.12	61.69
collagen, type IV, alpha 2	Col4a2	100766914	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	1.87
collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	Col4a3bp	100689038	12.01	11.98	9.84	11.59	12.90	13.28	1425.66	1474.12	1300.46	1402.29	1593.88	1583.33

collagen, type IV, alpha 6	Col4a6	100772869	0.02	0.02	0.00	0.03	0.03	0.04	1.52	1.83	0.00	1.16	3.10	3.74
collagen, type V, alpha 2	Col5a2	100759871	99.09	96.25	81.50	77.70	51.79	54.24	18099.82	17859.62	15153.46	14083.19	9323.16	9605.60
collagen, type V, alpha 3	Col5a3	100763294	0.04	0.08	0.02	0.01	0.01	0.00	7.60	15.56	3.73	2.32	1.03	0.00
collagen, type VI, alpha 1	Col6a1	100755078	1.61	1.68	0.49	0.33	0.01	0.01	199.00	208.63	59.62	41.72	4.14	0.93
collagen, type VI, alpha 2	Col6a2	100754390	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
collagen, type VI, alpha 3	Col6a3	100771857	0.00	0.00	0.00	0.00	0.01	0.00	0.76	0.00	0.00	0.00	0.00	0.00
collagen, type VI, alpha 5	Col6a5	100770126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
collagen, type VI, alpha 6	Col6a6	100769833	0.03	0.02	0.02	0.03	0.03	0.01	9.87	6.41	4.97	10.43	10.35	6.54
collagen, type VII, alpha 1	Col7a1	100689027	4.55	4.00	2.39	1.53	0.83	0.96	1472.75	1303.01	786.24	513.40	289.80	352.37
collagen, type VIII, alpha 1	Col8a1	100755279	2.84	3.12	16.62	18.09	11.33	12.19	454.20	495.03	2654.34	2868.33	1789.49	1943.18
collagen, type VIII, alpha 2	Col8a2	100758166	0.01	0.07	0.04	0.02	0.00	0.01	2.28	4.58	2.48	1.16	1.03	1.87
collagen, type IX, alpha 1	Col9a1	100755811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen, type IX, alpha 2	Col9a2	100753027	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.92	0.00	0.00	0.00	0.93
collagen, type IX, alpha 3	Col9a3	100757317	0.01	0.01	0.00	0.03	0.00	0.01	0.76	1.83	0.00	2.32	0.00	0.93
colorectal cancer associated 2	Colca2	100754197	0.54	0.54	0.46	0.87	0.60	0.23	22.79	19.22	16.15	25.50	15.52	7.48
collectin sub-family member 10 (C-type lectin)	Colec10	100753023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collectin sub-family member 11	Colec11	100765657	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
collectin sub-family member 12	Colec12	100771704	0.03	0.02	0.02	0.01	0.01	0.05	11.39	10.07	7.45	10.43	20.70	23.37
collagen beta(1-O)galactosyltransferase 1	Colgalt1	100774081	143.33	132.98	150.79	116.55	89.40	97.96	10948.76	10285.89	11719.09	9007.13	6898.18	7566.15
collagen beta(1-O)galactosyltransferase 2	Colgalt2	100764465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase	Colq	100767802	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	3.10	0.93
copper metabolism (Murr1) domain containing 1	Commd 1	100767564	37.78	37.46	51.66	46.76	39.57	38.38	595.48	613.99	801.15	731.28	628.24	602.86
COMM domain containing 10	Commd 10	100769692	5.40	5.05	6.20	6.93	7.99	6.81	194.44	195.82	222.33	244.53	258.75	229.93
COMM domain containing 2	Commd 2	100770093	24.41	25.08	26.71	25.98	27.50	26.94	859.04	870.20	929.08	886.57	934.59	924.39
COMM domain containing 3	Commd 3	103159468	59.88	62.01	56.54	63.71	64.68	60.05	1151.46	1163.01	1078.13	1163.56	1158.15	1069.26
COMM domain containing 4	Commd 4	100762408	72.40	65.96	65.83	55.44	43.20	54.53	1807.70	1656.21	1656.94	1329.28	1086.74	1330.97
COMM domain containing 6	Commd 6	100754809	42.18	39.65	49.49	48.61	54.26	60.69	1053.48	1003.79	1230.91	1193.69	1330.99	1494.54
COMM domain containing 7	Commd 7	100752819	24.17	22.58	25.51	23.19	12.66	11.77	609.91	592.94	655.82	567.87	315.67	296.29
COMM domain containing 8	Commd 8	100754822	47.21	48.12	41.36	40.37	52.77	46.28	1825.93	1876.73	1614.71	1558.75	2006.84	1775.87
COMM domain containing 9	Commd 9	100753103	29.63	31.18	28.76	28.11	27.30	26.66	938.79	1010.20	912.93	878.46	861.11	841.20
cartilage oligomeric matrix protein	Comp	100766091	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
catechol-O-methyltransferase	Comt	100770626	161.98	159.08	182.24	173.78	144.70	153.86	5871.24	5866.28	6856.32	6605.84	5761.77	5976.28
catechol-O-methyltransferase domain containing 1	Comtd1	100762102	8.84	8.41	10.07	4.15	1.27	1.96	382.05	384.31	416.10	166.88	63.13	93.47
coatomer protein complex, subunit alpha	Copa	100762124	57.49	55.80	56.31	58.91	61.45	65.12	7557.42	7324.84	7396.63	7626.85	7946.62	8411.09

coatomer protein complex, subunit beta 1	Copb1	100774203	44.98	46.16	44.33	48.17	53.46	52.69	4428.11	4566.93	4392.02	4670.45	5205.98	5148.16
coatomer protein complex, subunit beta 2 (beta prime)	Copb2	100758514	55.64	56.20	29.02	32.36	35.37	34.66	5224.87	5395.95	2767.37	3068.82	3330.59	3217.13
coatomer protein complex, subunit epsilon	Cope	100689412	71.77	71.83	85.24	53.85	34.77	40.68	2061.39	2091.77	2440.70	1513.55	1067.07	1181.42
coatomer protein complex, subunit gamma 1	Copg1	100763679	57.90	55.58	62.99	64.11	59.46	63.51	5291.71	5238.57	5907.37	5948.74	5575.47	5796.82
coatomer protein complex, subunit gamma 2	Copg2	100758528	30.67	28.34	29.32	31.51	35.35	35.94	2560.41	2433.07	2507.77	2642.34	2992.15	2982.53
coordinator of PRMT5, differentiation stimulator	Coprs	100756315	27.90	26.37	26.58	29.65	29.61	33.22	629.66	593.86	603.65	638.56	646.87	708.48
COP9 signalosome subunit 2	Cops2	100760211	31.96	33.06	30.28	35.80	38.35	32.21	3081.45	3171.51	2944.99	3436.20	3637.98	3088.15
COP9 signalosome subunit 3	Cops3	100760692	33.29	33.25	33.57	35.54	36.18	38.24	1391.48	1412.81	1396.11	1419.68	1525.57	1531.92
COP9 signalosome subunit 4	Cops4	100755032	55.12	56.39	54.87	57.63	66.70	62.55	2676.62	2777.13	2756.19	2799.95	3229.16	3024.59
COP9 signalosome subunit 5	Cops5	100767044	65.74	67.16	69.96	73.62	78.49	75.68	2242.16	2260.13	2350.03	2403.60	2591.61	2507.72
COP9 signalosome subunit 6	Cops6	100774513	70.21	71.19	84.53	83.59	75.92	79.70	3114.11	3164.19	3695.21	3563.68	3352.32	3501.27
COP9 signalosome subunit 7A	Cops7a	100756202	86.32	83.01	76.55	65.68	53.16	57.24	5112.46	4909.15	4519.95	3841.82	3175.34	3425.56
COP9 signalosome subunit 7B	Cops7b	100762866	29.54	27.67	23.40	20.97	20.99	21.45	1705.93	1628.76	1383.68	1245.84	1245.09	1271.15
COP9 signalosome subunit 8	Cops8	100767812	131.91	130.10	142.47	143.46	136.82	144.18	3676.93	3790.07	4108.82	3943.80	3738.37	3933.09
coatomer protein complex, subunit zeta 1	Copz1	100769319	87.56	84.44	86.76	86.81	85.18	89.13	4366.59	4191.77	4288.93	4255.55	4213.43	4501.37
coatomer protein complex, subunit zeta 2	Copz2	100761728	0.15	0.05	0.06	0.06	0.21	0.38	3.80	1.83	1.24	1.16	6.21	8.41
coenzyme Q10 homolog A (S. cerevisiae)	Coq10a	100750875	12.51	11.72	19.57	19.02	17.15	17.44	509.65	483.14	788.73	763.73	708.97	713.15
coenzyme Q10 homolog B (S. cerevisiae)	Coq10b	100773426	30.32	26.94	22.06	24.62	25.87	26.03	1494.77	1339.61	1088.07	1209.91	1272.00	1280.50
coenzyme Q2 4-hydroxybenzoate polyprenyltransferase	Coq2	100755903	18.86	20.38	20.92	21.67	24.50	24.94	781.57	856.47	888.09	879.62	985.31	1020.66
coenzyme Q3 methyltransferase	Coq3	100763494	33.29	32.23	11.20	13.33	14.08	12.70	1350.46	1317.65	408.65	496.02	516.46	457.99
coenzyme Q4	Coq4	100766160	12.60	11.42	13.52	12.13	12.68	12.02	439.77	398.95	481.93	425.32	448.15	424.34
coenzyme Q5 homolog, methyltransferase (S. cerevisiae)	Coq5	100750776	30.59	27.90	33.06	34.14	29.15	30.24	1588.96	1494.25	1761.28	1796.33	1560.76	1610.44
coenzyme Q6 monooxygenase	Coq6	100751162	12.65	12.24	9.25	8.30	8.40	9.60	570.41	557.26	455.85	398.67	410.89	465.47
coenzyme Q7 homolog, ubiquinone (yeast)	Coq7	100762279	36.03	34.37	25.37	28.93	25.70	26.63	552.19	538.95	380.08	427.64	380.87	399.10
coenzyme Q9	Coq9	100765748	11.27	10.65	9.90	10.47	10.77	11.87	833.97	803.40	736.56	767.20	778.31	858.03
corin, serine peptidase	Corin	103162946	1.09	0.86	0.52	0.68	0.22	0.28	63.80	55.82	40.99	46.36	16.56	23.37
	Cornifin-A	100760951	51.85	50.22	190.17	130.11	85.32	98.93	992.72	954.38	3607.02	2412.87	1611.47	1850.65
coronin, actin binding protein, 1B	Coro1b	100759932	147.28	142.27	186.39	172.54	151.79	161.98	8085.30	7777.78	10191.32	9323.51	8203.30	8854.13
coronin, actin binding protein, 1C	Coro1c	100754313	47.70	49.65	46.19	50.02	49.56	49.78	4747.88	4967.72	4651.62	4983.36	4909.98	4967.77
coronin, actin binding protein, 2A	Coro2a	100768130	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.92	0.00	1.16	1.03	0.93
coronin, actin binding protein, 2B	Coro2b	100757780	0.02	0.04	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
coronin 6	Coro6	100756161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coactosin-like F-actin binding protein 1	Cotl1	100772395	16.39	16.34	13.46	12.87	9.73	11.10	690.42	689.94	575.09	540.06	416.06	470.14
ceruloplasmin (ferroxidase)	Cp	100753849	0.07	0.05	0.06	0.06	0.05	0.07	7.60	4.58	8.69	6.95	6.21	9.35

carboxypeptidase A1 (pancreatic)	Cpa1	100757667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase A2 (pancreatic)	Cpa2	100756609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase A3 (mast cell)	Cpa3	100751382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
carboxypeptidase A4	Cpa4	100756900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase A5	Cpa5	100757381	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase A6	Cpa6	100761681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase B1 (tissue)	Cpb1	100751091	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase B2 (plasma)	Cpb2	100754304	0.52	0.54	0.54	0.55	0.44	0.57	38.74	38.43	39.75	38.24	43.47	36.45
carboxypeptidase D	Cpd	100757331	45.36	46.97	44.17	49.22	57.58	55.88	10006.93	10443.28	9862.17	10937.89	12664.09	12362.88
carboxypeptidase E	Cpe	100757401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
cytoplasmic polyadenylation element binding protein 1	Cpeb1	100759655	28.45	28.88	32.29	32.38	32.10	31.98	2470.78	2534.64	2800.91	2764.02	2747.89	2751.67
cytoplasmic polyadenylation element binding protein 2	Cpeb2	100761763	1.76	1.53	1.19	1.41	1.76	1.82	277.99	232.42	199.98	230.63	285.66	298.16
cytoplasmic polyadenylation element binding protein 3	Cpeb3	100770232	1.33	1.56	1.50	1.52	1.67	1.72	183.05	209.54	203.70	208.61	224.59	227.12
cytoplasmic polyadenylation element binding protein 4	Cpeb4	103158539	2.32	2.61	2.00	2.53	2.73	2.61	365.34	415.43	331.64	395.19	437.80	429.01
cadherin-like and PC-esterase domain containing 1	Cped1	100766134	8.77	9.02	14.64	15.80	15.01	14.41	1285.90	1347.84	2157.50	2301.61	2189.00	2095.53
complexin 1	Cplx1	100771100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complexin 2	Cplx2	100768790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complexin 3	Cplx3	100755334	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
complexin 4	Cplx4	100755686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase M	Cpm	100770407	0.29	0.19	0.13	0.18	0.15	0.20	24.31	16.47	11.18	13.91	12.42	14.95
carboxypeptidase N, polypeptide 1	Cpn1	100752048	1.70	1.50	0.65	0.57	0.34	0.35	101.02	96.08	39.75	33.61	19.66	19.63
carboxypeptidase N, polypeptide 2	Cpn2	100770664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
copine I	Cpne1	100756430	64.51	63.99	59.22	60.29	66.12	71.00	5616.79	5546.02	5266.45	5274.24	5773.15	6168.82
copine II	Cpne2	100759144	12.19	12.09	13.00	12.38	10.96	11.85	857.52	861.96	917.90	839.06	753.47	822.51
copine III	Cpne3	100757065	9.00	10.63	11.21	12.48	14.28	14.85	603.07	696.34	751.46	819.36	963.57	975.80
copine IV	Cpne4	100763931	0.00	0.00	0.00	0.00	0.02	0.00	0.76	0.00	1.24	0.00	1.03	0.00
copine V	Cpne5	100750402	0.11	0.13	0.03	0.01	0.01	0.05	10.63	12.81	3.73	1.16	1.03	4.67
copine VI (neuronal)	Cpne6	100762909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
copine VII	Cpne7	100763257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
copine family member IX	Cpne9	100754571	0.00	0.00	0.03	0.03	0.00	0.00	30.38	25.62	18.63	20.86	27.94	31.78
carboxypeptidase O	Cpo	100755961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
coproporphyrinogen oxidase	Cpox	100772187	35.20	35.12	34.81	36.10	41.47	41.71	2269.50	2317.78	2254.39	2332.91	2618.52	2669.42
calcineurin-like phosphoesterase domain containing 1	Cpped1	100754184	19.77	19.50	24.29	27.20	26.37	27.49	656.24	646.93	859.52	895.85	922.17	924.39
carboxypeptidase Q	Cpq	100753216	1.50	1.10	6.90	7.85	0.15	0.14	66.08	55.82	315.49	321.02	6.21	5.61
carbamoyl-phosphate synthase 1, mitochondrial	Cps1	100760467	0.04	0.00	0.00	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00	0.00
cleavage and polyadenylation specific factor 1, 160kDa	Cpsf1	100761673	24.29	23.56	31.27	28.14	22.20	23.94	3457.42	3327.98	4416.86	3919.47	3116.34	3345.18
cleavage and polyadenylation specific factor 2, 100kDa	Cpsf2	100753441	41.75	43.67	45.61	52.13	51.24	48.56	6800.15	7167.46	7508.41	8491.41	8292.31	7938.15
cleavage and polyadenylation specific factor 3, 73kDa	Cpsf3	100758811	43.76	43.10	49.67	52.56	52.93	54.43	2940.18	2929.94	3377.23	3498.78	3518.95	3570.44

cleavage and polyadenylation specific factor 3-like	Cpsf3l	100769426	76.59	71.35	78.47	76.67	65.84	74.67	4922.57	4725.23	5132.30	4950.91	4314.86	4753.73
cleavage and polyadenylation specific factor 4, 30kDa	Cpsf4	100773929	30.98	29.61	37.19	35.72	24.55	29.80	1477.30	1437.52	1827.11	1715.20	1222.32	1454.35
cleavage and polyadenylation specific factor 4-like	Cpsf4l	100762278	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	2.80
cleavage and polyadenylation specific factor 6, 68kDa	Cpsf6	100773290	21.41	20.99	22.82	21.15	21.24	21.59	2498.88	2503.53	2747.50	2507.90	2500.53	2572.21
cleavage and polyadenylation specific factor 7, 59kDa	Cpsf7	100770766	26.37	27.25	27.75	28.16	28.12	26.84	2232.29	2333.34	2362.45	2455.75	2453.95	2385.28
carnitine palmitoyltransferase 1A (liver)	Cpt1a	100762166	14.87	15.83	10.64	11.31	12.68	14.36	1026.90	1114.51	737.80	813.56	900.44	964.58
carnitine palmitoyltransferase 1B (muscle)	Cpt1b	100770034	0.96	1.06	0.79	1.02	0.87	0.91	105.58	117.12	98.12	115.89	108.67	96.27
carnitine palmitoyltransferase 1C	Cpt1c	100767138	2.41	1.87	1.97	2.39	1.94	1.98	400.28	319.35	358.96	366.22	274.27	262.64
carnitine palmitoyltransferase 2	Cpt2	100766757	26.81	26.68	31.92	31.49	33.98	34.92	1778.08	1772.42	2127.69	2080.26	2230.40	2309.57
carboxypeptidase, vitellogenic-like	Cpvl	100761019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPX chromosome region, candidate 1	Cpxcr1	100768537	0.00	0.04	0.06	0.00	0.05	0.00	0.76	0.92	1.24	0.00	1.03	0.93
carboxypeptidase X (M14 family), member 1	Cpxm1	100771369	0.01	0.02	0.00	0.02	0.00	0.00	0.76	0.92	0.00	2.32	0.00	0.00
carboxypeptidase X (M14 family), member 2	Cpxm2	100759007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxypeptidase Z	Cpz	100766478	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement component (3b/4b) receptor 1-like	Cr1l	100772783	92.19	87.61	97.75	107.02	126.35	124.91	4425.84	4286.02	4652.86	5054.05	6037.08	5994.04
complement component (3d/Epstein Barr virus) receptor 2	Cr2	100773072	0.00	0.00	0.03	0.06	0.01	0.01	1.52	0.92	7.45	9.27	2.07	3.74
cellular retinoic acid binding protein 1	Crabp1	100755827	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cellular retinoic acid binding protein 2	Crabp2	100753208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	1.87
CASP2 and RIPK1 domain containing adaptor with death domain	Cradd	100751661	18.97	21.25	20.98	18.79	15.92	16.53	632.70	647.84	653.34	559.76	447.11	472.94
Crm, cramped-like (Drosophila)	Cramp1l	100764850	3.63	3.29	3.13	3.31	3.42	3.72	722.32	643.27	621.04	660.58	672.74	730.91
carnitine O-acetyltransferase	Crat	100762198	11.36	10.57	13.86	13.31	11.97	12.84	1006.39	948.89	1244.57	1167.03	1056.72	1116.00
crumbs family member 1, photoreceptor morphogenesis associated	Crb1	100765149	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.92	1.24	0.00	0.00	0.93
crumbs family member 2	Crb2	100774304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
crumbs family member 3	Crb3	100762804	0.07	0.18	0.16	0.08	0.00	0.00	3.04	4.58	4.97	1.16	1.03	0.00
cereblon	Crbn	100762708	14.71	16.01	13.86	16.77	17.78	16.77	1058.04	1183.14	1035.90	1209.91	1300.98	1208.53
CGRP receptor component	Crcp	100756386	11.58	10.14	11.52	11.89	12.00	11.44	567.38	500.52	573.84	555.12	597.19	570.15
cAMP responsive element binding protein 1	Creb1	100761582	13.70	13.53	14.31	16.14	17.80	17.00	2675.86	2682.88	2782.27	3117.49	3422.70	3324.62
cAMP responsive element binding protein 3	Creb3	100772940	8.27	7.28	10.45	9.98	10.45	9.64	350.15	322.09	462.06	425.32	456.43	416.86
cAMP responsive element binding protein 3-like 1	Creb3l1	100762192	33.61	31.02	21.33	18.51	14.83	15.80	1923.91	1800.79	1293.01	1148.49	969.78	1009.44
cAMP responsive element binding protein 3-like 2	Creb3l2	100771872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cAMP responsive element binding protein 3-like 3	Creb3l3	100774488	0.08	0.12	0.03	0.18	0.00	0.04	4.56	5.49	3.73	8.11	2.07	2.80

cAMP responsive element binding protein 3-like 4	Creb3l4	100766300	0.00	0.02	0.00	0.00	0.03	0.00	1.52	0.92	0.00	0.00	1.03	1.87
cAMP responsive element binding protein 5	Creb5	100764159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CREB binding protein	Crebbp	100770451	4.80	4.47	4.12	4.42	3.55	3.38	603.83	570.07	526.64	555.12	450.22	434.62
cAMP responsive element binding protein-like 2	Crebl2	100772731	4.24	4.71	5.22	6.81	6.53	6.28	179.25	198.56	227.30	286.25	279.45	275.73
CREB3 regulatory factor	Crebrf	100770049	3.34	3.79	4.78	6.56	5.80	5.44	543.07	560.00	801.15	972.33	886.98	901.02
CREB/ATF bZIP transcription factor	Crebzf	100763322	17.33	18.16	14.75	13.20	14.54	15.71	2394.07	2485.23	2059.38	1827.62	2015.12	2179.65
cellular repressor of E1A-stimulated genes 1	Creg1	100767565	38.03	38.97	44.19	43.71	49.75	51.25	1488.70	1516.21	1711.60	1672.32	1945.77	1977.76
cellular repressor of E1A-stimulated genes 2	Creg2	100759597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich with EGF-like domains 1	Creld1	100757184	40.25	40.46	45.13	39.93	32.68	35.01	2384.19	2375.43	2654.34	2354.93	1917.83	2062.82
cysteine-rich with EGF-like domains 2	Creld2	100689097	81.38	78.95	89.50	84.07	86.89	93.39	2740.42	2751.51	3125.09	2825.45	2932.12	3058.24
cAMP responsive element modulator	Crem	100767867	5.26	4.26	5.61	6.35	6.91	6.07	266.60	239.74	299.34	331.45	368.46	318.72
corticotropin releasing hormone binding protein	Crhbp	100757291	0.16	0.13	0.17	0.20	0.16	0.31	28.10	28.37	32.29	39.40	42.43	50.47
corticotropin releasing hormone receptor 2	Crhr2	100774100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine rich transmembrane BMP regulator 1 (chordin-like)	Crim1	100765449	75.60	73.83	87.09	99.02	112.85	106.91	11279.16	10997.79	13036.94	14680.04	16659.14	15929.58
cysteine-rich protein 1 (intestinal)	Crip1	100754628	48.55	50.51	27.94	26.01	19.88	16.87	485.35	511.50	264.56	246.85	196.65	160.76
cysteine-rich protein 2	Crip2	100771081	132.11	129.09	110.97	82.68	65.44	64.92	3672.37	3497.26	3218.25	2367.67	1699.45	1920.75
cysteine-rich protein 3	Crip3	100754142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich PDZ-binding protein	Cript	100764597	46.53	46.36	43.62	44.38	50.96	55.01	1492.49	1510.72	1404.80	1410.41	1615.61	1726.33
cysteine-rich secretory protein 1	Crisp1	100756652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich secretory protein 2	Crisp2	100764099	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
cysteine-rich secretory protein LCCL domain containing 1	Crispld1	100764078	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cysteine-rich secretory protein LCCL domain containing 2	Crispld2	100758322	0.00	0.07	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	1.03	0.93
v-crk avian sarcoma virus CT10 oncogene homolog	Crk	100762827	132.40	132.68	120.72	124.02	136.10	131.51	3376.15	3600.66	3173.53	3021.30	2835.86	2824.57
v-crk avian sarcoma virus CT10 oncogene homolog-like	Crkl	100752014	23.07	21.76	24.87	26.00	26.35	26.55	3238.68	3069.94	3487.78	3645.96	3739.41	3780.74
cytokine receptor-like factor 1	Crlf1	100767254	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
cytokine receptor-like factor 3	Crlf3	100771341	8.14	8.63	8.36	10.07	10.00	9.64	634.97	666.14	647.13	774.16	765.89	747.74
crooked neck pre-mRNA splicing factor 1	Crnkl1	100771455	29.17	30.60	32.33	34.72	35.64	33.49	2013.54	2091.77	2238.24	2369.99	2434.29	2292.74
cornulin	Crnn	100758583	0.01	0.01	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
ciliary rootlet coiled-coil, rootletin	Crocc	100770958	2.44	2.05	1.79	1.30	0.88	0.91	249.89	257.12	209.91	136.75	94.18	100.94
carnitine O-octanoyltransferase	Crot	100750995	20.57	20.96	19.56	22.03	22.80	21.82	1677.82	1731.24	1624.65	1799.80	1872.29	1792.70
C-reactive protein, pentraxin-related	Crp	100772240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cartilage acidic protein 1	Crtac1	100760959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytotoxic and regulatory T cell molecule	Crtam	100774440	0.04	0.03	0.04	0.03	0.00	0.05	2.28	1.83	1.24	1.16	0.00	1.87
cartilage associated protein	Crtap	100767159	100.41	99.44	110.32	110.26	111.79	123.77	3304.76	3316.08	3644.28	3592.65	3652.47	3978.89

CREB regulated transcription coactivator 1	Crtc1	100766676	5.32	5.44	5.69	4.04	2.50	3.08	903.85	923.27	972.55	683.76	416.06	510.33
CREB regulated transcription coactivator 2	Crtc2	100751848	24.82	23.74	24.75	20.78	17.04	18.35	1952.02	1857.52	1919.02	1619.01	1345.48	1427.24
CREB regulated transcription coactivator 3	Crtc3	100751622	26.43	26.04	22.99	23.19	21.68	21.19	2275.58	2197.00	2086.71	2031.59	1855.73	1897.38
cone-rod homeobox	Crx	100770134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cryptochrome circadian clock 1	Cry1	100761664	16.92	16.18	15.83	15.62	15.48	17.27	1275.27	1239.87	1216.00	1184.42	1170.57	1274.89
cryptochrome circadian clock 2	Cry2	100774356	8.54	8.37	7.72	6.70	4.70	5.00	708.65	704.58	659.55	570.19	392.26	429.01
crystallin, alpha A	Cryaa	100762633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
crystallin, alpha B	Cryab	100772623	0.35	0.29	0.31	0.38	0.47	0.35	13.67	17.39	8.69	22.02	21.73	17.76
crystallin, beta A2	Cryba2	100769887	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
crystallin, beta A4	Cryba4	100772464	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	2.32	0.00	0.00
crystallin, beta B1	Crybb1	100772171	0.05	0.16	0.07	0.00	0.00	0.11	0.76	2.75	3.73	0.00	0.00	1.87
crystallin, beta B2	Crybb2	100759533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
crystallin, beta B3	Crybb3	100759827	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-gamma crystallin domain containing 3	Crybg3	100752646	6.86	7.04	7.53	9.20	9.94	9.15	1949.74	2007.58	2166.20	2604.09	2812.06	2608.66
crystallin, gamma A	Cryga	100759243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
crystallin, gamma B	Crygb	100759531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
crystallin, gamma C	Crygc	100759825	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
crystallin, gamma N	Crygn	100759221	0.00	0.00	0.00	0.00	0.00	0.18	0.76	1.83	0.00	0.00	0.00	1.87
crystallin, gamma S	Crygs	100765744	0.20	0.08	0.00	0.00	0.10	0.17	2.28	1.83	0.00	0.00	5.17	5.61
crystallin, lambda 1	Cryl1	100763866	9.31	9.24	11.02	11.15	11.95	11.63	446.61	447.45	549.00	527.31	589.94	567.34
crystallin, mu	Crym	100771156	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
crystallin, zeta (quinone reductase)	Cryz	100768247	14.66	14.72	18.16	17.82	17.43	16.92	593.20	593.86	715.44	701.15	682.06	675.77
crystallin, zeta (quinone reductase)-like 1	Cryzl1	100758122	12.91	13.08	13.08	13.57	14.19	15.12	644.09	670.72	681.91	672.17	719.32	730.91
citrate synthase	Cs	100750580	105.53	107.67	115.27	112.51	118.95	121.55	5650.21	5787.59	6296.14	6087.81	6354.82	6577.27
cold shock domain containing C2, RNA binding	Csdc2	100759782	0.04	0.05	0.00	0.00	0.06	0.00	3.04	0.92	0.00	0.00	1.03	0.00
cold shock domain containing E1, RNA-binding	Csde1	100760894	95.74	95.77	102.17	119.30	168.08	156.74	7752.62	7758.57	8312.05	9510.10	13453.79	12646.08
CSE1 chromosome segregation 1-like (yeast)	Cse1l	100756434	108.79	111.85	107.36	115.59	133.91	128.76	11375.62	11750.86	11280.63	11902.11	13723.92	13295.68
colony stimulating factor 1 (macrophage)	Csf1	100767142	18.55	18.98	14.22	14.81	14.71	15.16	2043.16	2107.32	1536.46	1616.69	1641.49	1686.14
colony stimulating factor 1 receptor	Csf1r	100763221	0.03	0.04	0.01	0.02	0.01	0.00	3.80	4.58	1.24	2.32	2.07	0.00
colony stimulating factor 2 (granulocyte-macrophage)	Csf2	100765221	1.42	1.58	0.36	0.26	0.23	0.82	22.79	25.62	6.21	3.48	4.14	12.15
colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	Csf2rb	100764512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
colony stimulating factor 3 (granulocyte)	Csf3	100755744	0.68	0.72	0.17	0.08	0.16	0.16	55.45	58.56	12.42	5.79	12.42	14.02
colony stimulating factor 3 receptor (granulocyte)	Csf3r	100760185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chondroitin sulfate N-acetylgalactosaminyltransferase 1	Csgalnact1	100754969	0.01	0.02	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
chondroitin sulfate N-acetylgalactosaminyltransferase 2	Csgalnact2	100770830	7.79	7.74	7.42	9.05	10.04	9.26	365.34	361.44	358.96	423.01	472.99	432.75

c-src tyrosine kinase	Csk	100755922	26.29	25.78	27.00	24.36	20.37	21.37	1618.58	1584.84	1643.28	1520.50	1263.72	1308.54
CUB and Sushi multiple domains 1	Csmd1	100759788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUB and Sushi multiple domains 2	Csmd2	100755548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUB and Sushi multiple domains 3	Csmd3	100774887	0.01	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	1.16	0.00	0.93
casein beta	Csn2	100755914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
casein kappa	Csn3	100752988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
casein kinase 1, alpha 1	Csnk1a 1	100758298	50.53	49.17	44.46	48.84	48.80	49.70	1989.99	1985.62	1769.97	1893.68	1871.26	1828.21
casein kinase 1, delta	Csnk1d	100751124	92.22	86.33	37.13	35.58	25.45	27.87	9354.49	8799.88	3834.32	3606.56	2515.02	2824.57
casein kinase 1, epsilon	Csnk1e	100766643	30.73	29.04	32.85	30.51	23.18	25.57	2561.17	2469.68	2773.58	2554.26	1911.62	2123.57
casein kinase 1, gamma 1	Csnk1g 1	100774663	15.45	15.81	14.26	15.92	15.38	16.13	1592.75	1650.72	1491.75	1652.62	1614.58	1678.67
casein kinase 1, gamma 2	Csnk1g 2	100758847	21.83	23.12	26.96	16.73	12.78	12.39	1175.01	1275.56	1438.34	908.59	671.71	681.37
casein kinase 1, gamma 3	Csnk1g 3	100773714	6.01	5.90	6.10	6.63	7.38	7.10	739.03	728.37	765.13	812.40	908.72	829.99
casein kinase 2, alpha 1 polypeptide	Csnk2a 1	100759365	118.13	118.86	110.65	113.05	124.66	121.02	14429.73	14585.63	13620.72	13744.79	15002.13	14567.76
casein kinase 2, alpha prime polypeptide	Csnk2a 2	100763424	54.54	54.34	58.06	59.51	59.57	59.15	5158.03	5177.26	5594.36	5599.90	5526.83	5511.75
casein kinase 2, beta polypeptide	Csnk2b	100763034	101.59	103.59	149.02	140.50	112.12	116.89	2147.98	2196.08	3173.53	2940.18	2368.05	2447.90
chondroitin sulfate proteoglycan 4	Cspg4	100760376	16.01	14.82	21.48	17.93	13.30	13.47	3781.75	3524.71	5137.27	4262.51	3153.60	3209.66
chondroitin sulfate proteoglycan 5 (neuroglycan C)	Cspg5	100768532	0.04	0.02	0.11	0.06	0.09	0.07	3.04	0.92	6.21	8.11	5.17	5.61
centrosome and spindle pole associated protein 1	Cspp1	100751044	2.25	2.50	1.80	2.02	2.80	2.94	308.37	335.82	265.81	283.94	406.75	410.32
uncharacterized LOC100689233	Csr1	100689233	0.24	0.10	0.26	0.00	0.11	0.10	2.28	0.92	0.00	0.00	0.00	0.93
cysteine-serine-rich nuclear protein 1	Csrnp1	100752750	2.99	3.21	1.91	1.32	1.28	1.11	265.08	287.32	173.89	118.21	112.81	100.01
cysteine-serine-rich nuclear protein 2	Csrnp2	100756497	1.80	2.14	2.22	1.75	2.16	2.04	224.06	266.27	283.20	225.99	264.96	264.51
cysteine-serine-rich nuclear protein 3	Csrnp3	100753527	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cysteine and glycine-rich protein 1	Csrp1	100756325	175.22	173.67	218.79	215.34	198.34	217.50	8906.36	8817.26	11131.58	10823.15	9948.29	10994.52
cysteine and glycine-rich protein 2	Csrp2	100764077	32.54	31.59	21.97	19.91	28.07	26.58	736.75	732.94	498.08	465.89	626.17	622.49
CSRP2 binding protein	Csrp2bp	100767721	11.84	11.15	13.84	14.78	13.00	13.28	1168.93	1152.03	1434.61	1500.80	1373.43	1360.88
cysteine and glycine-rich protein 3 (cardiac LIM protein)	Csrp3	100761159	0.00	0.08	0.11	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
cystatin 11	Cst11	100763132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin E/M	Cst6	100764786	0.09	0.09	0.19	0.22	0.28	0.27	6.08	6.41	9.94	12.75	14.49	16.82
cystatin F (leukocystatin)	Cst7	100765994	0.00	0.08	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
cystatin 8 (cystatin-related epididymal specific)	Cst8	100766873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin A (stefin A)	Csta	100767084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin B (stefin B)	Cstb	100768687	153.87	146.98	140.54	125.41	139.86	138.40	2135.06	2067.98	1936.41	1697.82	1901.27	1851.58
cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa	Cstf1	100761066	38.72	36.68	32.86	32.55	29.32	31.88	2205.70	2108.24	1874.31	1876.29	1682.89	1854.38
cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa	Cstf2	100770425	30.24	31.67	28.05	29.92	30.76	30.07	3206.77	3367.32	2974.80	3119.81	3196.04	3140.49

cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant	Cstf2t	100768909	22.21	21.89	17.98	18.41	18.38	18.23	2274.82	2245.49	1861.89	1898.31	1877.47	1883.36
cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa	Cstf3	100772127	16.07	16.41	16.24	16.98	18.13	18.28	1441.61	1542.75	1531.49	1556.43	1610.44	1605.76
cystatin-like 1	Cstl1	100766245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cancer/testis antigen 83	Ct83	103159767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-terminal binding protein 1	Ctbp1	100766703	42.39	43.09	37.47	28.21	23.32	25.66	2842.96	2947.32	2562.43	1929.60	1624.93	1762.79
C-terminal binding protein 2	Ctbp2	100769412	37.67	36.93	40.45	40.13	32.51	33.88	2285.45	2264.71	2477.96	2476.61	2014.08	2103.94
chitobiase, di-N-acetyl-	Ctbs	103162615	10.17	9.81	10.81	11.40	16.50	15.14	448.13	430.98	489.38	514.56	714.14	672.03
CTS telomere maintenance complex component 1	Ctc1	100752986	4.25	4.18	4.72	4.80	4.05	4.26	578.77	577.39	652.10	658.27	566.14	583.23
CCCTC-binding factor (zinc finger protein)	Ctcf	100763233	48.13	47.85	43.98	44.93	46.64	44.13	5072.20	5038.17	4649.13	4727.23	4888.24	4645.31
CCCTC-binding factor (zinc finger protein)-like	Ctcfl	100759040	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	2.07	0.00
CTD nuclear envelope phosphatase 1	Ctdnep1	100762001	55.25	53.57	69.22	71.99	72.95	74.45	1895.81	1819.09	2372.39	2429.10	2504.67	2543.24
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1	Ctdp1	100764255	13.57	13.64	14.01	12.86	11.21	13.13	1558.57	1574.77	1644.52	1515.87	1254.40	1460.89
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1	Ctdsp1	100751900	34.38	33.94	38.75	32.35	26.59	29.52	2138.86	2122.88	2453.12	1981.75	1581.46	1782.42
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	Ctdsp2	100765556	27.61	27.84	25.87	27.38	26.51	29.36	2980.43	2972.94	2835.68	3014.35	2852.42	3193.77
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	Ctdspl	100754751	6.00	6.19	10.10	10.63	10.31	10.11	824.10	846.41	1398.59	1448.65	1379.64	1380.51
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	Ctdspl2	100752292	7.75	7.89	8.82	9.84	10.85	11.01	886.38	913.20	1002.36	1104.45	1239.91	1250.59
connective tissue growth factor	Ctgf	100750810	14.02	13.05	2.98	2.51	3.68	4.48	906.89	852.81	198.73	162.25	235.98	289.75
cystathionase (cystathionine gamma-lyase)	Cth	100752127	0.05	0.00	0.00	0.02	0.09	0.00	2.28	0.92	0.00	1.16	4.14	0.00
collagen triple helix repeat containing 1	Cthrc1	103163281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
CBP80/20-dependent translation initiation factor	Ctif	100754827	3.16	3.99	3.96	3.09	2.73	2.30	170.90	221.44	202.46	170.36	151.11	139.27
cytotoxic T-lymphocyte-associated protein 4	Ctla4	100765782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
catenin (cadherin-associated protein), alpha 1, 102kDa	Ctnna1	100754399	43.75	45.02	44.30	45.52	49.05	50.40	4602.81	4753.60	4743.53	4778.23	5122.15	5290.23
catenin (cadherin-associated protein), alpha 2	Ctnna2	100766706	3.83	3.91	6.47	6.73	8.63	8.72	281.79	289.15	473.24	487.91	620.99	636.51
catenin (cadherin-associated protein), alpha 3	Ctnna3	100763869	0.04	0.04	0.00	0.06	0.00	0.00	3.80	7.32	0.00	3.48	0.00	0.00
catenin (cadherin-associated protein), alpha-like 1	Ctnnal1	100766294	5.72	6.55	6.41	6.40	10.09	9.94	568.14	653.33	632.22	632.77	999.80	981.40
catenin (cadherin-associated protein), beta 1, 88kDa	Ctnnb1	100773307	98.94	92.73	89.87	88.08	83.95	90.28	9690.96	9170.47	8774.10	8528.49	8154.66	8692.43
catenin, beta interacting protein 1	Ctnnbip 1	100760454	11.29	12.15	11.30	8.63	8.24	7.46	239.25	257.12	244.69	184.27	163.53	152.35

catenin, beta like 1	Ctnnbl1	100764320	71.27	69.64	66.66	68.77	68.07	71.72	3956.44	3881.57	3718.81	3736.36	3719.74	3929.35
catenin (cadherin-associated protein), delta 1	Ctnnd1	100753529	29.22	29.76	31.97	34.27	37.55	36.46	4553.44	4671.25	5117.40	5401.73	5942.89	5902.44
catenin (cadherin-associated protein), delta 2	Ctnnd2	100752408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystinosin, lysosomal cystine transporter	Ctns	100764451	4.29	5.04	5.38	6.70	6.66	4.41	161.78	189.41	188.80	220.19	231.84	192.54
CTP synthase 1	Ctps1	100689101	99.73	101.49	106.95	112.52	107.65	105.95	8049.60	8215.17	8708.27	8994.38	8647.31	8543.82
CTP synthase 2	Ctps2	100758964	31.23	33.76	20.76	25.34	24.28	23.50	960.06	1040.39	654.58	760.25	712.07	685.11
CTR9, Paf1/RNA polymerase II complex component	Ctr9	100757530	45.45	46.01	52.67	54.50	54.73	56.84	6142.39	6315.56	7241.37	7376.53	7382.56	7602.60
chymotrypsin C (caldecrin)	Ctrc	100752962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chymotrypsin-like	Ctrl	100756444	0.06	0.10	0.14	0.24	0.19	0.24	12.15	8.24	21.12	28.97	16.56	30.84
cathepsin A	Ctsa	100772055	180.95	170.47	195.19	182.81	161.83	179.87	9343.09	8927.98	10154.06	9300.33	8317.15	9164.44
cathepsin B	Ctsb	100756995	156.56	148.50	164.03	170.82	173.73	188.71	8506.84	8152.03	9043.63	9272.52	9400.78	10180.42
cathepsin C	Ctsc	100769144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin D	Ctsd	100766628	128.85	122.98	165.99	161.24	146.70	169.49	7108.53	6867.33	9287.08	8895.87	8128.78	9346.70
cathepsin E	Ctse	100757212	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
cathepsin F	Ctsf	100756958	22.12	21.49	19.94	17.42	13.47	15.44	1386.92	1409.15	1290.53	1185.58	877.67	972.99
cathepsin H	Ctsh	100756691	26.71	27.59	28.87	29.55	31.34	30.76	1082.34	1120.00	1166.32	1175.14	1239.91	1217.87
cathepsin K	Ctsk	100765407	0.44	0.41	0.30	0.30	0.38	0.27	32.66	35.69	26.08	23.18	35.19	28.04
cathepsin O	Ctso	100767833	2.41	2.62	2.27	2.62	3.39	3.21	157.22	167.45	147.81	163.41	212.17	206.56
cathepsin S	Ctss	100751823	0.05	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
cathepsin W	Ctsw	100767305	0.11	0.31	0.10	0.28	0.22	0.22	9.11	20.13	9.94	20.86	16.56	13.09
cathepsin Z	Ctsz	100689392	380.31	357.52	349.31	312.93	302.05	324.71	13466.63	12695.18	12381.12	10976.13	10657.25	11480.55
cortactin	Cttn	100772651	116.23	113.49	56.30	57.16	52.39	57.73	10875.08	10843.15	5422.95	5408.68	4921.36	5377.15
cortactin binding protein 2	Cttnbp2	100754789	0.56	0.64	0.40	0.41	0.53	0.50	97.98	112.55	69.56	75.33	100.39	90.66
CTTNBP2 N-terminal like	Cttnbp2nl	100757568	16.39	15.61	15.91	17.16	16.55	16.77	2331.79	2251.90	2290.41	2459.23	2352.52	2403.04
cytosolic thiouridylase subunit 1	Ctu1	100764314	9.19	8.82	8.32	8.15	6.93	7.72	801.31	771.37	730.35	710.42	606.50	668.29
cytosolic thiouridylase subunit 2 homolog (S. pombe)	Ctu2	100765955	21.64	19.49	25.35	22.40	15.39	18.29	1154.50	1050.46	1317.85	1168.19	810.39	940.28
cortexin 2	Ctxn2	100762346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cortexin 3	Ctxn3	100753891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cubilin (intrinsic factor-cobalamin receptor)	Cubn	100774474	0.20	0.26	0.18	0.24	0.26	0.26	47.09	60.39	42.23	64.90	66.24	72.90
CUE domain containing 1	Cuedc1	100765982	7.87	7.35	5.15	3.90	3.19	3.02	401.04	399.87	269.53	215.56	184.23	174.78
CUE domain containing 2	Cuedc2	100750415	88.09	88.50	105.84	98.78	80.60	90.69	2691.05	2714.90	3249.30	2969.15	2443.60	2738.58
cullin 1	Cul1	100757763	52.34	53.03	54.08	61.87	61.18	58.25	4559.51	4677.65	4727.38	5326.40	5246.35	5036.00
cullin 2	Cul2	100767582	41.11	42.54	39.86	44.95	47.87	44.71	3525.78	3701.31	3512.62	3830.23	4099.58	3799.43
cullin 3	Cul3	100760346	42.24	41.53	32.32	38.47	38.44	35.60	4862.57	4820.40	3756.07	4406.21	4394.55	4045.25
cullin 4A	Cul4a	100760883	38.30	38.38	40.52	42.59	44.49	46.85	3777.95	3796.47	4105.10	4235.85	4428.71	4598.57
cullin 4B	Cul4b	100763989	19.34	20.00	20.15	23.93	25.22	23.04	1514.52	1581.18	1597.32	1861.23	1961.30	1831.02
cullin 5	Cul5	100770463	42.26	41.94	44.18	50.58	51.47	46.59	7253.60	7209.55	7612.75	8595.71	8642.14	7874.59
cullin 7	Cul7	100771595	19.40	18.44	27.19	23.29	18.89	20.92	3428.56	3310.59	4859.04	4186.02	3404.07	3762.05

cullin 9	Cul9	100753842	0.06	0.06	0.02	0.01	0.01	0.00	14.43	15.56	3.73	3.48	4.14	0.93
cutA divalent cation tolerance homolog (E. coli)	Cuta	100774038	51.73	44.53	57.57	51.23	42.54	47.13	924.36	821.70	937.78	820.52	729.67	817.84
cutC copper transporter	Cutc	100752859	13.30	12.29	9.95	11.42	12.94	11.54	496.74	463.01	387.53	433.44	476.09	429.95
cut-like homeobox 1	Cux1	100767555	1.94	1.86	1.28	1.12	1.00	0.78	330.40	299.22	231.03	206.29	186.30	161.70
cut-like homeobox 2	Cux2	100773679	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
CUB and zona pellucida-like domains 1	Cuzd1	100765370	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
CWC15 spliceosome-associated protein homolog (S. cerevisiae)	Cwc15	100775065	120.96	130.42	132.35	141.46	135.89	129.66	2538.38	2714.90	2731.35	2845.15	2785.15	2668.48
CWC22 spliceosome-associated protein homolog (S. cerevisiae)	Cwc22	100768134	47.54	45.93	40.27	46.51	44.85	42.50	4450.90	4323.53	3856.68	4402.74	4254.83	3973.28
CWC25 spliceosome-associated protein homolog (S. cerevisiae)	Cwc25	100756522	35.50	36.00	20.09	21.57	19.97	21.23	2466.98	2574.90	1500.44	1546.00	1450.02	1491.73
CWC27 spliceosome-associated protein homolog (S. cerevisiae)	Cwc27	100760125	21.93	22.30	21.65	23.11	24.64	20.95	1974.04	2024.97	1972.43	2059.40	2185.89	1889.90
CWF19-like 1, cell cycle control (S. pombe)	Cwf19l1	100751475	10.87	11.07	12.75	13.59	13.43	13.58	644.09	656.99	762.64	810.08	816.60	834.66
CWF19-like 2, cell cycle control (S. pombe)	Cwf19l2	100761030	6.52	6.35	6.44	7.30	8.35	8.03	822.58	802.48	813.57	925.98	1052.58	1022.53
cell wall biogenesis 43 C-terminal homolog (S. cerevisiae)	Cwh43	100764522	0.02	0.04	0.37	0.00	0.04	0.31	1.52	1.83	1.24	0.00	5.17	1.87
chemokine (C-X3-C motif) ligand 1	Cx3cl1	100760591	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
chemokine (C-X3-C motif) receptor 1	Cx3cr1	100753050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coxsackie virus and adenovirus receptor	Cxadr	100755073	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
chemokine (C-X-C motif) ligand 1	Cxcl1	100689059	6.94	8.24	11.84	10.89	20.95	17.83	172.42	204.05	289.41	272.35	501.97	432.75
chemokine (C-X-C motif) ligand 10	Cxcl10	100770195	0.20	0.09	0.20	0.23	0.24	0.09	6.84	3.66	7.45	6.95	8.28	3.74
chemokine (C-X-C motif) ligand 11	Cxcl11	100771051	0.00	0.11	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) ligand 12	Cxcl12	100759082	0.23	0.22	0.00	0.00	0.00	0.00	12.15	11.90	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) ligand 13	Cxcl13	100773550	0.15	0.18	0.00	0.00	0.00	0.00	3.04	1.83	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) ligand 14	Cxcl14	100754406	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) ligand 16	Cxcl16	100751127	7.31	7.21	6.71	7.02	8.44	7.33	442.81	427.32	407.40	419.53	488.51	435.56
chemokine (C-X-C motif) ligand 17	Cxcl17	103161592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) ligand 3	Cxcl3	100689100	0.96	1.28	1.07	1.17	0.42	0.25	31.90	38.43	32.29	35.93	12.42	7.48
chemokine (C-X-C motif) ligand 6	Cxcl6	100759933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) ligand 9	Cxcl9	100770763	0.09	0.06	0.00	0.00	0.00	0.00	1.52	1.83	0.00	1.16	0.00	1.87
chemokine (C-X-C motif) receptor 2	Cxcr2	100755640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) receptor 3	Cxcr3	100769241	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) receptor 4	Cxcr4	100767733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) receptor 5	Cxcr5	100770604	0.00	0.03	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
chemokine (C-X-C motif) receptor 6	Cxcr6	103160301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	1.87
CXXC finger protein 1	Cxxc1	100770455	14.52	13.66	15.89	15.67	13.99	15.46	765.62	741.18	848.35	826.31	749.33	811.29
CXXC finger protein 4	Cxxc4	100750942	0.37	0.39	0.07	0.13	0.11	0.04	31.90	37.52	4.97	9.27	10.35	4.67
CXXC finger protein 5	Cxxc5	100758671	2.04	1.96	2.12	1.51	1.69	1.96	95.70	96.99	110.55	82.28	79.69	100.94
	Cyclin-K	100753370	0.00	0.06	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
cytoplasmic FMR1 interacting protein 1	Cyfip1	100759530	31.78	30.86	29.48	32.42	32.61	32.88	5042.58	4966.80	4796.94	5258.02	5203.91	5162.18

cytoplasmic FMR1 interacting protein 2	Cyfip2	100767787	0.01	0.00	0.00	0.00	0.00	0.01	1.52	0.00	0.00	0.00	0.00	2.80
cytoglobin	Cygb	100762644	0.04	0.00	0.00	0.00	0.00	0.05	0.76	0.92	0.00	1.16	1.03	0.93
cysteine/histidine-rich 1	Cyhr1	100755112	19.43	18.10	22.31	20.03	14.15	16.45	1065.63	958.96	1170.05	1110.25	781.41	921.58
cylicin, basic protein of sperm head cytoskeleton 1	Cylc1	100755781	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
cylicin, basic protein of sperm head cytoskeleton 2	Cylc2	100763548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cylindromatosis (turban tumor syndrome)	Cyld	100758070	8.84	9.67	9.31	10.91	13.16	12.82	1105.13	1216.99	1170.05	1362.89	1646.66	1596.42
Cytochrome P-450 2A14	Cyp2a14	100689033	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2A15	Cyp2a15	100689035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
cytochrome P450 2A17	Cyp2a17	100689034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450, family 7, subfamily a, polypeptide 1	Cyp7a1	100689275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich, angiogenic inducer, 61	Cyr61	100766753	21.86	22.12	15.13	12.56	11.37	12.78	1265.39	1284.71	880.64	715.05	667.57	755.21
cysteinyl leukotriene receptor 1	Cysltr1	100768254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteinyl leukotriene receptor 2	Cysltr2	100752628	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
cysteine-rich transmembrane module containing 1	Cystm1	103162545	10.45	11.23	12.77	12.38	12.28	11.02	160.26	173.86	195.01	186.59	186.30	172.91
cytohesin 1	Cyth1	100768404	5.43	5.35	5.16	3.81	3.71	3.92	483.83	484.97	468.27	338.40	335.34	346.76
cytohesin 2	Cyth2	100774811	10.57	10.10	11.05	10.81	10.47	10.66	426.86	420.92	440.94	432.28	436.76	418.73
cytohesin 3	Cyth3	100756495	8.33	8.60	9.22	10.41	10.11	10.58	922.08	959.87	1049.56	1179.78	1120.89	1173.01
cytohesin 4	Cyth4	100766937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
cytohesin 1 interacting protein	Cytip	100758851	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	1.16	1.03	0.93
cytokine-like 1	Cytl1	100772210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine/tyrosine-rich 1	Cyyr1	100757225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D-2-hydroxyglutarate dehydrogenase	D2hgdh	100773592	13.10	12.82	12.89	12.47	9.98	10.51	988.92	974.51	998.64	941.04	749.33	795.40
dishevelled associated activator of morphogenesis 1	Daam1	100765004	15.44	14.54	11.61	11.26	14.86	15.42	584.85	596.60	498.08	511.08	527.84	529.02
dishevelled associated activator of morphogenesis 2	Daam2	100764704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dab, reelin signal transducer, homolog 1 (Drosophila)	Dab1	100773659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dab, mitogen-responsive phosphoprotein, homolog 2 (Drosophila)	Dab2	100774674	20.99	21.39	20.94	24.47	34.10	31.88	2035.57	2074.38	2068.07	2379.26	3295.40	3106.84
DAB2 interacting protein	Dab2ip	100752536	11.24	11.08	12.01	9.87	7.45	7.92	2115.32	2120.13	2321.46	1916.85	1436.56	1540.34
dachshund family transcription factor 2	Dach2	100752459	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dishevelled-binding antagonist of beta-catenin 1	Dact1	100768384	0.05	0.02	0.03	0.00	0.04	0.02	2.28	1.83	1.24	0.00	3.10	0.93
dishevelled-binding antagonist of beta-catenin 2	Dact2	100774769	0.05	0.06	0.00	0.00	0.00	0.00	4.56	5.49	0.00	0.00	0.00	0.93
defender against cell death 1	Dad1	100767387	131.20	126.15	120.82	116.42	107.33	109.62	2078.86	1992.94	1917.78	1792.85	1700.48	1700.16
dystroglycan 1 (dystrophin-associated glycoprotein 1)	Dag1	100762216	25.92	26.77	32.49	32.12	30.45	31.49	3906.31	4036.21	4941.02	4863.99	4560.15	4772.42
diacylglycerol lipase, alpha	Dagla	100756392	1.83	1.96	1.49	1.00	0.93	0.99	293.18	311.11	238.48	158.77	144.90	154.22

diacylglycerol lipase, beta	Daglb	100765603	2.94	3.16	3.33	3.23	3.17	3.68	255.21	259.87	275.74	263.07	265.99	310.31
dihydroxyacetone kinase 2 homolog (S. cerevisiae)	Dak	100765605	11.51	10.09	10.14	9.58	8.47	8.99	780.81	681.70	707.99	654.79	574.42	620.62
DALR anticodon binding domain containing 3	Dalrd3	100764409	12.92	11.02	14.82	13.52	12.93	13.25	527.88	479.48	648.37	580.62	578.56	602.86
DAN domain family member 5, BMP antagonist	Dand5	100764256	0.29	0.33	0.17	0.10	0.14	0.03	13.67	15.56	12.42	5.79	5.17	1.87
D-amino-acid oxidase	Dao	100689280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
death associated protein 3	Dap3	100771966	80.92	77.83	80.10	80.43	78.20	78.13	3518.95	3510.98	3534.98	3468.65	3338.87	3400.33
death-associated protein kinase 1	Dapk1	100766355	0.14	0.16	0.06	0.04	0.06	0.10	40.26	44.84	24.84	30.13	19.66	24.30
death-associated protein kinase 2	Dapk2	100773012	0.02	0.06	0.03	0.03	0.02	0.02	0.76	2.75	1.24	1.16	1.03	0.93
death-associated protein kinase 3	Dapk3	100773624	27.29	26.00	28.33	16.82	11.93	11.71	1020.06	978.17	1048.32	643.20	456.43	441.16
death associated protein-like 1	Dapl1	100771189	0.31	0.19	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	0.00	0.00
dual adaptor of phosphotyrosine and 3-phosphoinositides	Dapp1	100751628	0.03	0.15	0.06	0.08	0.00	0.00	2.28	7.32	2.48	2.32	0.00	0.00
aspartyl-tRNA synthetase	Dars	100767438	113.90	112.33	113.74	122.54	131.12	120.00	7410.82	7403.54	7448.79	7896.88	8441.35	7679.25
aspartyl-tRNA synthetase 2, mitochondrial	Dars2	100774650	8.89	9.35	9.15	10.19	12.50	12.50	710.93	736.60	753.95	818.20	996.69	979.53
dynein assembly factor with WDR repeat domains 1	Daw1	100757280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
death-domain associated protein	Daxx	100774618	104.43	97.78	105.14	90.63	79.44	86.15	7095.62	6678.83	7137.03	6091.28	5391.24	5841.69
DAZ associated protein 1	Dazap1	100756248	40.26	42.38	40.68	35.22	32.50	30.45	2405.46	2435.82	2422.07	2086.06	1676.68	1679.60
DAZ associated protein 2	Dazap2	100775021	56.21	55.58	59.00	54.38	59.91	60.90	2602.94	2556.60	2753.71	2511.38	2714.77	2836.72
deleted in azoospermia-like	Dazl	100771380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DBF4 zinc finger	Dbf4	100689339	30.31	29.97	33.35	35.50	37.30	34.79	1982.40	1993.86	2220.85	2342.18	2446.71	2260.03
dopamine beta-hydroxylase (dopamine beta-monooxygenase)	Dbh	100761411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)	Dbi	100761641	59.84	64.18	48.99	53.24	63.00	59.87	888.66	945.23	711.72	755.62	909.75	850.55
drebrin 1	Dbn1	100763853	59.83	60.04	53.66	42.84	29.26	29.87	4774.46	4757.26	4242.97	3414.18	2394.96	2426.40
dysbindin (dystrobrevin binding protein 1) domain containing 1	Dbndd1	100759269	0.15	0.04	0.18	0.15	0.42	0.16	9.87	1.83	4.97	5.79	11.38	8.41
dysbindin (dystrobrevin binding protein 1) domain containing 2	Dbndd2	100765248	81.08	80.14	76.48	79.33	86.26	95.03	2143.42	2102.75	2015.91	1991.02	2229.36	2418.93
drebrin-like	Dbnl	100761466	33.13	32.16	35.77	31.66	27.53	28.51	1760.61	1692.81	1830.84	1579.61	1371.36	1399.20
D site of albumin promoter (albumin D-box) binding protein	Dbp	100775076	4.20	3.94	5.66	6.15	5.69	4.73	106.34	95.16	160.23	155.30	135.58	119.64
debranching RNA lariats 1	Dbr1	100768520	9.53	10.27	5.40	5.58	6.09	5.60	550.67	603.01	309.28	324.50	348.79	322.46
dihydrolipoamide branched chain transacylase E2	Dbt	100759869	18.26	17.82	17.67	18.44	21.50	20.04	2149.50	2109.15	2100.37	2206.58	2507.77	2351.63
developing brain homeobox 1	Dbx1	100760100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
developing brain homeobox 2	Dbx2	100761209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DDB1 and CUL4 associated factor 10	Dcaf10	100754235	5.09	4.94	5.70	5.74	6.48	6.91	278.75	265.36	314.25	311.75	344.65	372.00
DDB1 and CUL4 associated factor 11	Dcaf11	100762322	22.67	22.86	28.32	29.97	29.62	32.37	1809.22	1843.79	2309.04	2417.51	2381.50	2559.13
DDB1 and CUL4 associated factor 12	Dcaf12	100771230	23.83	23.70	25.18	26.64	27.27	28.40	1212.98	1212.42	1294.25	1350.14	1383.78	1452.48
DDB1 and CUL4 associated factor 12-like 2	Dcaf12l2	100764386	18.97	18.34	22.14	20.15	22.68	20.75	1201.59	1174.90	1448.27	1353.62	1487.28	1416.02
DDB1 and CUL4 associated factor 13	Dcaf13	100751757	25.02	24.66	29.02	31.53	27.40	27.46	973.73	963.53	1148.93	1220.34	1041.20	1051.50

DDB1 and CUL4 associated factor 15	Dcaf15	100759899	7.63	7.55	9.29	7.98	6.26	7.04	569.65	585.62	690.60	596.84	448.15	534.63
DDB1 and CUL4 associated factor 17	Dcaf17	100767135	4.30	4.52	3.72	4.03	4.36	3.98	313.69	327.58	258.35	290.89	318.78	291.62
DDB1 and CUL4 associated factor 4	Dcaf4	100752324	15.40	15.84	18.20	18.88	15.90	16.40	1295.77	1311.24	1541.43	1572.65	1309.26	1368.36
DDB1 and CUL4 associated factor 5	Dcaf5	100765902	19.08	18.70	21.10	21.82	20.20	20.78	2880.17	2834.77	3217.00	3314.51	3048.03	3164.79
DDB1 and CUL4 associated factor 6	Dcaf6	100770150	6.17	6.05	7.41	7.33	8.52	7.61	593.96	615.82	739.04	771.84	869.39	796.34
DDB1 and CUL4 associated factor 7	Dcaf7	100773606	29.25	29.27	36.68	37.75	38.13	39.76	4930.93	4962.23	6226.58	6381.01	6399.32	6739.90
DDB1 and CUL4 associated factor 8	Dcaf8	100762613	42.25	40.42	45.18	45.24	43.38	46.34	4770.67	4579.74	5132.30	5103.88	4872.72	5215.46
dephospho-CoA kinase domain containing	Dcakd	100759055	124.59	116.76	87.66	76.61	65.02	68.60	5701.10	5392.29	4029.33	3501.10	2934.19	3101.23
discoidin, CUB and LCCL domain containing 1	Dcbld1	100760899	2.96	2.83	2.09	1.67	1.97	1.48	252.93	237.91	173.89	139.07	163.53	125.25
discoidin, CUB and LCCL domain containing 2	Dcbld2	100772480	46.10	47.89	58.62	65.17	67.40	66.30	7521.72	7831.77	9679.58	10738.55	10985.34	10853.38
deleted in colorectal carcinoma	Dcc	100758377	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
doublecortin domain containing 1	Dcdc1	100769645	0.47	0.40	0.17	0.28	0.56	0.24	41.02	27.45	12.42	22.02	41.40	25.24
doublecortin domain containing 2	Dcdc2	100770382	2.00	2.39	1.91	2.04	2.10	2.21	195.20	225.10	182.59	195.86	194.58	214.04
doublecortin domain containing 2B	Dcdc2b	100759892	4.01	3.91	6.37	6.42	6.02	6.59	348.63	331.24	558.94	551.65	536.12	583.23
doublecortin domain containing 2C	Dcdc2c	100766730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
doublecortin domain containing 5	Dcdc5	100769357	0.02	0.00	0.00	0.00	0.00	0.01	2.28	0.00	0.00	0.00	0.00	0.93
dachsous cadherin-related 1	Dchs1	100760642	0.03	0.02	0.00	0.01	0.00	0.01	9.11	8.24	1.24	3.48	0.00	4.67
dachsous cadherin-related 2	Dchs2	100774272	0.01	0.00	0.00	0.00	0.00	0.00	3.04	0.00	1.24	1.16	0.00	0.00
deoxycytidine kinase	Dck	100751299	9.37	10.49	13.78	14.93	17.81	17.29	523.32	574.64	760.16	808.93	989.45	970.19
doublecortin-like kinase 1	Dclk1	100768340	8.04	8.32	6.24	6.42	8.16	7.98	946.39	963.53	614.83	657.11	850.76	838.40
doublecortin-like kinase 2	Dclk2	100764661	3.76	3.52	2.88	2.92	2.33	2.12	494.46	494.12	377.59	404.46	312.57	284.14
doublecortin-like kinase 3	Dclk3	100765735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA cross-link repair 1A	Dclre1a	100750521	8.35	7.99	9.11	8.74	9.47	9.12	1010.95	973.60	1106.70	1058.09	1135.38	1101.98
DNA cross-link repair 1B	Dclre1b	100759525	6.33	6.09	6.50	7.10	7.42	7.43	485.35	469.41	506.77	544.69	564.07	566.41
DNA cross-link repair 1C	Dclre1c	100752196	4.70	4.83	5.71	5.78	6.80	6.29	315.21	337.65	382.56	372.01	442.97	422.47
decorin	Dcn	100756152	30.90	32.78	57.76	53.40	27.08	27.70	1481.86	1593.07	2799.66	2526.45	1286.49	1373.03
decapping mRNA 1A	Dcp1a	100773763	20.07	18.80	20.52	21.70	30.31	32.11	2570.28	2411.11	2676.70	2815.02	3860.50	4157.41
decapping mRNA 1B	Dcp1b	103160459	10.69	10.28	9.57	8.46	6.69	8.09	536.99	529.80	478.20	428.80	365.35	437.43
decapping mRNA 2	Dcp2	100773631	5.64	5.40	5.98	6.09	6.98	6.67	609.15	602.09	649.61	671.01	754.51	700.07
decapping enzyme, scavenger	Dcps	100761162	42.34	42.99	46.14	46.06	39.81	42.19	1440.09	1488.76	1612.23	1561.07	1370.32	1446.87
DC-STAMP domain containing 1	Dcst1	100773996	0.03	0.02	0.02	0.02	0.00	0.00	12.91	7.32	7.45	9.27	8.28	6.54
DC-STAMP domain containing 2	Dcst2	100774289	3.93	3.62	5.36	4.08	3.01	3.50	446.61	419.09	613.59	463.57	344.65	410.32
dendrocyte expressed seven transmembrane protein	Dcstamp	100752337	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dopachrome tautomerase	Dct	100764118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dCMP deaminase	Dctd	100751791	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dynactin 1	Dctn1	100765083	42.70	42.33	41.12	32.18	25.22	27.12	5334.24	5329.16	5179.50	4021.45	3245.72	3476.97
dynactin 2 (p50)	Dctn2	100757525	86.88	82.36	84.64	87.18	70.39	83.14	4557.24	4466.28	4580.82	4634.52	3792.19	4345.28
dynactin 3 (p22)	Dctn3	100753423	52.81	52.23	56.86	57.79	54.36	60.72	1176.53	1122.75	1188.68	1082.43	1046.37	1158.99
dynactin 4 (p62)	Dctn4	100767865	17.83	17.97	20.30	22.63	25.12	25.33	1828.21	1853.86	2119.00	2317.84	2582.29	2598.38
dynactin 5 (p25)	Dctn5	100773966	69.01	67.96	88.52	90.62	95.33	92.89	1298.81	1333.20	1678.06	1723.31	1805.02	1826.34

dynactin 6	Dctn6	100754783	60.52	61.16	59.48	62.37	68.82	66.49	1597.31	1625.10	1568.76	1591.20	1781.21	1712.31
dCTP pyrophosphatase 1	Dctpp1	100769832	79.76	85.97	108.33	102.54	99.67	94.05	1335.27	1432.03	1797.30	1668.84	1636.31	1535.66
DCN1, defective in cullin neddylation 1, domain containing 1	Dcun1d 1	100771521	10.33	10.10	10.66	11.91	11.99	11.04	1160.58	1163.01	1211.03	1360.57	1338.24	1265.54
DCN1, defective in cullin neddylation 1, domain containing 2	Dcun1d 2	100757607	7.52	7.83	8.27	8.87	8.18	9.21	559.02	551.77	544.03	569.03	601.33	642.12
DCN1, defective in cullin neddylation 1, domain containing 3	Dcun1d 3	100752469	4.74	3.74	3.14	3.17	3.08	3.04	77.47	63.14	50.93	62.58	50.71	50.47
DCN1, defective in cullin neddylation 1, domain containing 4	Dcun1d 4	100756000	8.42	8.94	9.79	10.28	10.20	11.49	650.17	696.34	756.43	806.61	812.46	871.11
DCN1, defective in cullin neddylation 1, domain containing 5	Dcun1d 5	100759094	38.22	37.20	39.86	41.55	38.63	44.47	902.33	908.63	967.59	934.09	930.45	1013.18
doublecortin	Dcx	100773444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dicarbonyl/L-xylulose reductase	Dcxr	100769825	38.33	37.32	21.93	16.08	8.56	9.30	939.55	929.67	525.40	396.35	221.49	224.32
DET1 and DDB1 associated 1	Dda1	100751929	31.26	32.90	33.13	21.65	19.32	18.72	972.97	1040.39	1019.75	688.40	599.26	559.87
dimethylarginine dimethylaminohydrolase 1	Ddah1	100767722	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	1.24	0.00	0.00	0.93
dimethylarginine dimethylaminohydrolase 2	Ddah2	100761676	0.09	0.14	0.05	0.05	0.00	0.04	2.28	3.66	2.48	1.16	0.00	2.80
damage-specific DNA binding protein 1, 127kDa	Ddb1	100764133	105.15	104.69	86.73	89.75	92.29	95.14	13603.35	13818.84	11495.51	11753.77	12055.52	12315.21
damage-specific DNA binding protein 2, 48kDa	Ddb2	100756705	3.58	3.37	4.00	4.35	4.77	4.74	164.06	179.35	203.70	220.19	250.47	226.19
dopa decarboxylase (aromatic L-amino acid decarboxylase)	Ddc	100761742	0.02	0.02	0.00	0.03	0.03	0.02	0.76	1.83	0.00	2.32	1.03	2.80
DDHD domain containing 1	Ddhd1	100761687	6.42	6.98	7.11	8.35	9.14	8.77	795.24	853.73	886.85	1026.80	1100.19	1088.89
DDHD domain containing 2	Ddhd2	100772516	24.34	23.24	26.97	29.69	33.88	30.57	2732.06	2695.69	3077.89	3363.19	3882.23	3576.98
DNA-damage inducible 1 homolog 1 (S. cerevisiae)	Ddi1	100755779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-damage inducible 1 homolog 2 (S. cerevisiae)	Ddi2	100753562	18.38	18.52	17.21	18.46	14.10	15.98	530.92	537.12	499.32	522.67	408.82	462.66
DNA-damage-inducible transcript 3	Ddit3	100763514	124.99	120.92	140.67	145.36	129.05	133.09	2556.61	2500.79	2905.24	2920.48	2594.71	2697.46
DNA-damage-inducible transcript 4	Ddit4	100759745	7.96	8.22	4.90	4.06	2.92	3.77	344.07	362.35	216.12	175.00	124.20	160.76
DNA-damage-inducible transcript 4-like	Ddit4l	100751717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
dendrin	Ddn	100769143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
D-aspartate oxidase	Ddo	100773572	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit (non-catalytic)	Ddost	100755259	196.68	185.68	207.49	197.33	187.24	192.46	9364.36	8934.39	9965.26	9394.20	9010.59	9117.70
discoidin domain receptor tyrosine kinase 1	Ddr1	100762536	9.39	8.55	10.31	7.62	4.61	5.47	992.72	917.78	1124.09	823.99	497.83	578.56
discoidin domain receptor tyrosine kinase 2	Ddr2	100689338	97.46	94.33	119.35	138.49	146.73	143.50	12991.16	12615.57	16117.32	18423.35	19444.29	19214.94
DDRGK domain containing 1	Ddrgk1	100689201	52.74	54.60	47.42	44.55	33.47	36.71	1751.50	1840.13	1577.45	1459.08	1140.55	1247.78
D-dopachrome tautomerase	Ddt	100765163	39.26	36.06	37.80	28.06	23.71	25.44	581.81	541.70	561.42	395.19	341.55	361.72
DEAD (Asp-Glu-Ala-Asp) box helicase 1	Ddx1	100756637	71.93	71.11	70.73	80.33	80.94	82.45	5588.69	5706.15	5612.99	6225.72	6352.75	6322.11
DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	Ddx10	100752733	84.19	83.82	81.11	85.97	80.77	74.87	7653.12	7653.34	7451.28	7922.38	7319.42	6819.35
DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11	Ddx11	100756953	11.33	10.67	12.19	12.29	11.82	12.00	1303.37	1270.07	1471.87	1478.78	1435.53	1442.20

DEAD (Asp-Glu-Ala-Asp) box helicase 17	Ddx17	100774831	50.22	47.54	49.47	49.42	47.81	51.39	3648.07	3533.86	3681.55	3633.21	3515.85	3717.18
DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	Ddx18	100759595	65.11	66.08	72.36	75.15	71.87	70.12	4251.90	4299.74	4711.24	4894.12	4666.75	4588.29
DEAD (Asp-Glu-Ala-Asp) box polypeptide 19B	Ddx19b	100766470	18.36	19.13	20.12	20.18	18.48	17.52	962.34	1014.77	1111.67	1049.98	1097.09	1011.31
DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	Ddx20	100752364	18.80	20.82	24.37	25.24	24.61	25.07	1400.59	1573.86	1825.87	1861.23	1842.28	1878.69
DEAD (Asp-Glu-Ala-Asp) box helicase 21	Ddx21	100771185	144.12	139.82	135.04	140.56	129.59	130.22	11725.77	11479.10	11093.08	11528.93	10595.15	10641.21
DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	Ddx23	100767790	62.69	62.97	62.51	65.54	58.58	61.53	5801.36	5899.22	5832.84	6054.20	5433.68	5694.01
DEAD (Asp-Glu-Ala-Asp) box helicase 24	Ddx24	100764379	35.29	34.86	34.36	33.53	29.95	32.35	2792.07	2720.39	2702.78	2636.54	2327.68	2543.24
DEAD (Asp-Glu-Ala-Asp) box helicase 25	Ddx25	100759427	0.15	0.07	0.06	0.09	0.08	0.09	7.60	5.49	3.73	5.79	3.10	4.67
DEAD (Asp-Glu-Ala-Asp) box polypeptide 27	Ddx27	100758755	93.17	94.30	94.56	84.90	77.10	77.90	6922.44	6952.42	7005.37	6108.67	5730.72	5707.09
DEAD (Asp-Glu-Ala-Asp) box polypeptide 28	Ddx28	100750865	10.60	11.67	11.10	12.54	12.08	11.28	519.52	576.47	545.28	614.23	588.91	552.39
DEAD (Asp-Glu-Ala-Asp) box polypeptide 31	Ddx31	100773757	11.52	11.27	10.95	11.28	10.21	11.11	1490.22	1472.29	1423.43	1449.81	1295.80	1449.67
DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A	Ddx39a	100752425	60.08	56.71	65.55	60.76	54.93	60.53	2653.07	2553.86	2887.85	2659.72	2381.50	2560.99
DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B	Ddx39b	100773161	83.61	80.83	111.16	112.41	94.29	101.19	2290.77	2225.36	3070.44	3081.57	2391.85	2657.27
DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked	Ddx3x	100764307	226.90	228.27	182.79	194.16	195.11	184.38	30679.31	30922.64	24787.08	26137.12	26164.45	24888.38
DEAD (Asp-Glu-Ala-Asp) box polypeptide 4	Ddx4	100767469	0.71	0.96	1.22	1.54	1.60	1.51	77.47	98.82	135.39	165.73	167.67	152.35
DEAD (Asp-Glu-Ala-Asp) box polypeptide 41	Ddx41	100770508	38.22	35.82	48.96	46.09	35.78	39.18	2390.27	2237.26	3034.42	2798.79	2252.13	2415.19
DEAD (Asp-Glu-Ala-Asp) box helicase 42	Ddx42	100771386	30.01	29.44	33.50	34.92	35.38	36.18	3571.35	3519.22	4010.70	4154.73	4214.46	4291.07
DEAD (Asp-Glu-Ala-Asp) box polypeptide 43	Ddx43	100754802	0.01	0.00	0.02	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	Ddx46	100763282	37.65	36.47	31.00	34.33	31.20	30.81	4311.90	4252.16	3630.62	3936.85	3631.77	3532.12
DEAD (Asp-Glu-Ala-Asp) box polypeptide 47	Ddx47	100751146	86.34	88.09	100.97	103.47	91.56	98.14	4369.63	4439.74	5076.41	5128.22	4536.34	4907.02
DEAD (Asp-Glu-Ala-Asp) box polypeptide 49	Ddx49	100765219	19.79	17.05	19.11	13.69	9.40	10.05	1053.48	958.96	1002.36	735.91	504.04	521.55
DEAD (Asp-Glu-Ala-Asp) box helicase 5	Ddx5	100768812	234.23	243.97	259.85	270.56	274.42	274.30	20761.25	21600.28	23243.17	24034.84	24397.73	24332.26
DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	Ddx50	100766872	34.01	32.77	35.48	39.28	39.16	36.73	2668.26	2610.59	2795.94	3078.09	3055.28	2871.31
DEAD (Asp-Glu-Ala-Asp) box polypeptide 51	Ddx51	100773225	17.27	17.26	14.12	12.82	11.86	13.51	1264.63	1283.79	1048.32	961.90	884.91	995.42
DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	Ddx52	100771911	22.19	21.11	11.06	12.98	12.80	11.24	1459.83	1380.79	711.72	826.31	831.09	742.13
DEAD (Asp-Glu-Ala-Asp) box polypeptide 54	Ddx54	100770376	52.44	50.83	44.09	34.11	24.67	25.36	4642.30	4535.82	3933.69	2978.42	2221.08	2272.18
DEAD (Asp-Glu-Ala-Asp) box polypeptide 55	Ddx55	100767780	27.50	29.29	32.36	34.83	28.63	29.78	1740.10	1858.43	2064.35	2184.56	1820.54	1888.03

DEAD (Asp-Glu-Ala-Asp) box helicase 56	Ddx56	100764269	45.47	43.79	48.82	47.25	44.31	45.88	2522.43	2478.83	2843.14	2687.54	2489.14	2567.54
DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	Ddx58	100766319	1.07	1.04	1.08	0.87	0.88	0.78	155.71	154.64	144.08	143.71	133.51	132.72
DEAD (Asp-Glu-Ala-Asp) box polypeptide 59	Ddx59	100758928	5.13	4.96	4.21	4.94	4.54	4.73	299.26	293.73	245.93	289.73	264.96	286.94
DEAD (Asp-Glu-Ala-Asp) box helicase 6	Ddx6	100759836	20.13	21.10	17.16	18.33	19.48	19.34	2716.11	2876.87	2337.61	2505.58	2612.31	2670.35
DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	Ddx60	100760761	0.04	0.04	0.00	0.00	0.00	0.00	10.63	10.07	0.00	0.00	1.03	0.00
DEAF1 transcription factor	Deaf1	100756469	6.03	5.73	6.39	5.53	5.11	5.64	281.03	269.02	325.43	293.21	264.96	309.38
2,4-dienoyl CoA reductase 1, mitochondrial	Decr1	100753128	39.81	39.86	43.44	43.17	44.72	46.60	1272.23	1271.90	1361.33	1326.96	1396.20	1463.69
2,4-dienoyl CoA reductase 2, peroxisomal	Decr2	100759323	10.86	11.00	9.73	8.60	10.58	9.88	463.32	475.82	417.34	359.27	444.01	410.32
death effector domain containing	Dedd	100766615	8.18	9.24	9.12	7.28	5.34	5.88	268.88	321.18	316.73	206.29	135.58	137.40
death effector domain containing 2	Dedd2	103160330	0.16	0.11	0.17	0.16	0.07	0.11	12.91	8.24	13.66	13.91	6.21	10.28
differentially expressed in FDCP 6 homolog (mouse)	Def6	100757712	18.06	17.08	13.97	12.24	9.84	11.03	1566.93	1475.03	1214.76	1082.43	879.74	992.62
differentially expressed in FDCP 8 homolog (mouse)	Def8	100759557	26.66	25.36	30.85	30.57	30.31	32.94	2623.45	2544.71	3097.76	2985.38	2934.19	3191.90
defensin, beta 1	Defb1	103161655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 110 locus	Defb110	100756066	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 115	Defb115	100775044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 123	Defb123	100758173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 125	Defb125	103160370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 128	Defb128	100759044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 129	Defb129	100750561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 135	Defb135	100757570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
defensin, beta 136	Defb136	100757284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
delta(4)-desaturase, sphingolipid 1	Degs1	100753569	165.09	178.31	178.66	187.73	241.86	219.76	5341.08	5817.78	5868.86	6090.12	7787.24	7152.09
delta(4)-desaturase, sphingolipid 2	Degs2	100771298	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
DEK oncogene	Dek	100767626	62.31	63.67	67.93	79.41	89.99	78.56	2193.55	2236.34	2332.64	2732.73	3079.08	2764.75
DENN/MADD domain containing 1A	Dennd1a	100774592	4.64	4.80	6.32	6.07	5.90	5.85	684.34	711.90	943.99	874.98	839.37	820.64
DENN/MADD domain containing 1B	Dennd1b	100765438	2.53	2.39	3.06	3.67	3.76	3.64	566.62	524.31	695.57	815.88	821.78	799.14
DENN/MADD domain containing 1C	Dennd1c	100763098	0.02	0.06	0.02	0.04	0.02	0.00	3.04	3.66	1.24	2.32	1.03	0.00
DENN/MADD domain containing 2A	Dennd2a	100770913	10.02	9.76	11.09	10.08	8.82	9.68	1305.65	1274.64	1458.21	1339.71	1161.25	1265.54
DENN/MADD domain containing 2C	Dennd2c	100758192	2.06	2.32	1.97	2.19	2.07	2.22	211.15	239.74	211.15	235.26	210.10	219.65
DENN/MADD domain containing 2D	Dennd2d	100759018	0.03	0.00	0.00	0.00	0.00	0.00	6.08	3.66	2.48	2.32	2.07	4.67

DENN/MADD domain containing 3	Dennd3	100774715	2.35	2.08	1.87	2.00	1.95	2.02	398.00	346.80	293.13	316.39	334.30	328.07
DENN/MADD domain containing 4A	Dennd4a	100772570	13.04	12.97	15.78	18.66	19.73	18.18	3159.68	3157.78	3881.52	4525.58	4764.04	4406.97
DENN/MADD domain containing 4B	Dennd4b	100767268	2.89	2.61	2.06	1.91	1.83	1.81	541.55	488.63	383.80	355.79	337.41	343.02
DENN/MADD domain containing 4C	Dennd4c	100754289	11.52	11.19	13.93	16.08	16.83	16.29	1901.13	1873.07	2351.27	2671.31	2818.27	2668.48
DENN/MADD domain containing 5A	Dennd5a	100767226	49.80	47.94	48.92	51.91	55.42	56.89	7002.19	6902.10	7017.79	7289.61	7854.51	7983.95
DENN/MADD domain containing 5B	Dennd5b	100762143	1.63	1.66	1.46	1.77	2.05	1.66	220.27	231.50	202.46	241.06	277.38	229.93
DENN/MADD domain containing 6A	Dennd6a	100769342	4.88	4.56	6.26	7.13	8.09	6.76	622.06	571.90	787.48	903.96	1006.01	849.61
DENN/MADD domain containing 6B	Dennd6b	100754914	3.97	3.75	5.93	5.43	4.25	4.56	381.29	371.50	525.40	486.75	395.36	453.31
density-regulated protein	Denr	100765761	98.11	100.98	90.46	91.56	85.61	93.85	2839.16	2844.84	2566.15	2520.65	2361.84	2560.99
DEP domain containing 1	Depdc1	100767779	16.02	15.57	14.12	16.11	18.69	15.34	1320.84	1249.02	1153.90	1302.63	1505.91	1234.70
DEP domain containing 1B	Depdc1b	100754645	12.24	12.44	14.26	15.40	17.56	18.15	874.23	895.82	1043.35	1091.70	1249.23	1282.37
DEP domain containing 5	Depdc5	100767573	8.76	8.41	10.03	10.72	10.54	11.20	1693.01	1647.98	1942.62	2069.83	2033.75	2160.02
DEP domain containing 7	Depdc7	100771553	4.17	4.91	5.05	4.66	4.91	4.36	228.62	266.27	275.74	249.17	263.92	231.80
deoxyribose-phosphate aldolase (putative)	Dera	100750675	21.77	21.71	23.55	22.41	20.56	22.69	805.11	818.96	860.77	811.24	765.89	823.44
derlin 1	Derl1	103158862	98.81	96.24	69.59	67.97	63.70	64.87	5735.28	5594.51	4093.92	3973.94	3730.09	3825.60
derlin 2	Derl2	100755526	13.88	13.72	14.88	15.63	16.36	16.86	391.16	415.43	424.79	453.14	492.65	489.77
derlin 3	Derl3	100768848	0.24	0.26	0.23	0.22	0.13	0.18	12.15	10.98	7.45	11.59	5.17	8.41
desmin	Des	100764990	0.19	0.35	0.09	0.08	0.09	0.10	12.91	21.96	6.21	6.95	6.21	9.35
desumoylating isopeptidase 1	Desi1	100770500	18.00	18.37	22.53	18.55	19.49	21.12	517.25	544.44	663.27	564.39	615.82	626.23
desumoylating isopeptidase 2	Desi2	100763663	32.59	30.30	33.04	27.54	25.91	25.74	700.30	678.04	755.19	635.09	627.20	613.14
de-etiolated homolog 1 (Arabidopsis)	Det1	100770116	19.57	18.77	19.99	19.12	15.46	16.99	1275.27	1249.94	1310.40	1244.68	1001.87	1116.00
Dexi homolog (mouse)	Dexi	100750632	10.24	10.44	12.66	10.94	10.98	10.91	266.60	267.19	327.91	278.14	278.41	276.66
DNA fragmentation factor, 45kDa, alpha polypeptide	Dffa	100762210	30.50	32.80	26.13	26.10	22.18	21.42	585.60	606.67	494.35	465.89	368.46	384.15
DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)	Dffb	100768492	8.37	7.33	10.31	10.72	10.68	10.72	555.22	477.65	686.87	681.44	713.11	741.19
deafness, autosomal dominant 5	Dfna5	100757679	5.29	5.24	2.92	2.58	2.57	2.91	499.02	501.44	281.95	264.23	269.10	313.11
deafness, autosomal recessive 31	Dfnb31	100754986	9.74	8.93	11.21	8.93	4.98	5.23	1005.63	945.23	1172.53	956.11	545.44	595.38
deafness, autosomal recessive 59	Dfnb59	100766395	0.12	0.09	0.04	0.19	0.07	0.24	6.08	6.41	1.24	6.95	9.31	8.41
diacylglycerol O-acyltransferase 1	Dgat1	100755985	6.12	6.64	8.23	9.49	8.73	8.60	473.19	512.42	638.43	725.48	645.83	627.16
diacylglycerol O-acyltransferase 2	Dgat2	100774981	25.83	23.60	22.65	21.28	16.24	18.89	2172.28	2015.82	1919.02	1784.74	1361.01	1575.85
diacylglycerol O-acyltransferase 2-like 6	Dgat2l6	100768854	0.28	0.44	0.30	0.31	0.23	0.16	18.99	31.11	19.87	19.70	15.52	20.56
DiGeorge syndrome critical region gene 14	Dgcr14	100751728	15.86	15.25	17.08	16.43	14.03	15.30	1675.54	1615.03	1817.17	1726.79	1468.65	1605.76
DiGeorge syndrome critical region gene 2	Dgcr2	100772062	33.24	31.66	35.09	34.71	28.24	30.42	3658.70	3499.09	3916.30	3823.28	3093.57	3376.03
diacylglycerol kinase, alpha 80kDa	Dgka	100769779	5.27	4.61	5.05	5.52	7.01	7.04	441.29	414.51	443.43	471.68	599.26	592.58

diacylglycerol kinase, beta 90kDa	Dgkb	100753343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
diacylglycerol kinase, delta 130kDa	Dgkd	100771821	17.78	17.14	19.62	20.48	17.55	18.94	3152.09	3058.04	3461.70	3593.81	3085.29	3333.97
diacylglycerol kinase, epsilon 64kDa	Dgke	100765113	3.28	3.36	1.60	1.71	1.84	1.80	445.09	447.45	208.67	235.26	242.19	243.95
diacylglycerol kinase, gamma 90kDa	Dgkg	100757224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
diacylglycerol kinase, eta	Dgkh	100769284	1.01	1.00	0.93	1.02	1.08	0.97	202.04	205.88	188.80	214.40	216.31	196.28
diacylglycerol kinase, iota	Dgki	100770430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
diacylglycerol kinase, kappa	Dgkk	100755575	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
diacylglycerol kinase, theta 110kDa	Dgkq	100771387	6.06	5.61	7.54	6.53	6.97	7.34	896.26	840.00	1096.76	970.02	1004.97	1040.29
diacylglycerol kinase, zeta	Dgkz	100751991	16.46	16.32	13.59	10.64	6.63	7.83	2126.71	2126.54	1796.06	1397.66	920.10	1064.59
deoxyguanosine kinase	Dguok	100769222	9.47	10.63	9.43	11.15	10.78	9.80	268.12	286.41	257.11	285.09	276.34	263.58
24-dehydrocholesterol reductase	Dhcr24	100769920	2.70	2.84	3.93	3.13	2.53	2.97	302.30	312.94	439.70	346.52	280.48	331.81
7-dehydrocholesterol reductase	Dhcr7	100771700	19.15	17.89	19.16	19.22	16.26	17.86	1366.41	1288.37	1330.28	1364.05	1167.46	1288.91
dehydrodolichyl diphosphate synthase	Dhdds	100767025	74.41	75.34	74.28	73.17	70.78	77.59	4691.67	4849.68	4903.76	4734.19	4608.79	4945.34
dihydrodiol dehydrogenase (dimeric)	Dhdh	100753544	9.54	10.29	8.97	9.48	8.23	7.51	397.24	424.58	380.08	376.65	329.13	312.18
dihydrofolate reductase	Dhfr	100689028	20.07	22.84	22.52	25.90	29.88	26.87	840.81	981.83	1006.09	1077.80	1178.85	1062.72
desert hedgehog	Dhh	100768865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dihydroorotate dehydrogenase (quinone)	Dhodh	100756632	41.27	39.46	38.83	32.61	26.09	28.74	1794.03	1740.39	1705.39	1411.56	1155.04	1259.00
deoxyhypusine synthase	Dhps	100755665	42.94	41.01	38.24	35.23	35.36	39.87	1624.65	1591.24	1521.56	1355.94	1387.92	1526.32
dehydrogenase/reductase (SDR family) member 1	Dhrs1	100757215	37.84	36.27	35.75	37.53	33.61	36.66	1658.83	1587.58	1573.72	1625.96	1479.00	1578.66
dehydrogenase/reductase (SDR family) member 11	Dhrs11	100763193	13.13	12.49	8.15	6.95	7.84	8.11	471.67	456.60	293.13	250.33	275.31	287.88
dehydrogenase/reductase (SDR family) member 13	Dhrs13	100767705	10.22	9.79	12.62	11.90	9.14	10.03	495.98	485.88	623.53	573.67	435.73	481.35
dehydrogenase/reductase (SDR family) member 2	Dhrs2	100771582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dehydrogenase/reductase (SDR family) member 3	Dhrs3	100756186	1.75	1.02	0.83	1.12	0.50	0.66	62.28	42.09	36.02	46.36	18.63	27.11
dehydrogenase/reductase (SDR family) member 7B	Dhrs7b	100773373	12.76	13.12	14.05	14.72	15.15	15.66	511.93	533.46	582.54	564.39	627.20	634.64
dehydrogenase/reductase (SDR family) member 7C	Dhrs7c	100765494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dehydrogenase/reductase (SDR family) member 9	Dhrs9	100771741	1.29	1.23	0.20	0.29	0.57	0.33	112.41	103.40	21.12	25.50	46.57	27.11
dehydrogenase E1 and transketolase domain containing 1	Dhtkd1	100753689	2.14	2.40	3.02	3.30	3.47	3.34	236.98	268.10	332.88	365.06	391.22	365.46
DEAH (Asp-Glu-Ala-His) box helicase 15	Dhx15	100764898	72.91	71.76	82.21	85.78	91.02	89.03	6023.15	5979.74	6795.46	7026.53	7431.20	7209.11
DEAH (Asp-Glu-Ala-His) box polypeptide 16	Dhx16	100756749	33.50	31.36	33.34	26.26	19.42	20.83	3193.86	2996.73	3194.65	2534.56	1936.46	2031.97
DEAH (Asp-Glu-Ala-His) box polypeptide 29	Dhx29	100768526	9.27	8.80	8.05	10.29	11.02	10.07	1314.76	1259.09	1176.26	1491.53	1595.95	1473.04
DEAH (Asp-Glu-Ala-His) box helicase 30	Dhx30	100763879	66.61	64.05	67.42	56.11	42.96	45.93	8073.14	7875.69	8285.96	7017.26	5504.06	5801.49
DEAH (Asp-Glu-Ala-His) box polypeptide 32	Dhx32	100757757	16.84	16.32	20.22	21.08	23.98	23.68	1342.87	1320.39	1638.31	1715.20	1905.41	1911.40
DEAH (Asp-Glu-Ala-His) box polypeptide 33	Dhx33	100755235	12.24	11.61	10.61	10.97	9.63	11.02	902.33	879.35	791.21	837.90	734.84	848.68
DEAH (Asp-Glu-Ala-His) box polypeptide 34	Dhx34	100766240	3.08	3.14	3.82	1.89	1.54	1.31	276.47	290.98	324.18	164.57	125.23	99.07

DEAH (Asp-Glu-Ala-His) box polypeptide 35	Dhx35	100761819	11.36	11.87	9.88	10.20	9.68	9.78	1102.09	1152.03	945.23	994.35	918.03	947.76
DEAH (Asp-Glu-Ala-His) box polypeptide 36	Dhx36	100771317	17.87	18.44	16.28	20.21	19.85	16.86	1836.57	1883.14	1663.15	2035.06	2014.08	1734.75
DEAH (Asp-Glu-Ala-His) box polypeptide 37	Dhx37	100751766	14.26	13.66	14.62	12.49	9.87	10.97	1917.84	1856.60	1977.40	1693.18	1372.39	1481.45
DEAH (Asp-Glu-Ala-His) box polypeptide 38	Dhx38	100757501	18.73	19.13	17.90	18.30	16.27	17.18	2403.18	2489.81	2337.61	2376.94	2080.32	2184.32
DEAH (Asp-Glu-Ala-His) box polypeptide 40	Dhx40	100756345	10.86	11.59	13.83	14.92	16.83	15.87	1134.75	1202.35	1432.13	1539.05	1730.50	1644.08
DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57	Dhx57	100759824	6.59	6.01	6.99	8.07	8.57	8.23	954.74	870.20	1008.57	1155.44	1244.05	1176.75
DEXH (Asp-Glu-X-His) box polypeptide 58	Dhx58	100754123	0.09	0.04	0.08	0.02	0.03	0.01	9.11	4.58	6.21	2.32	2.07	1.87
DEAH (Asp-Glu-Ala-His) box helicase 9	Dhx9	100765632	72.97	73.46	57.36	61.77	61.05	62.20	9842.87	10047.98	7889.74	8401.01	8272.65	8329.78
diablo, IAP-binding mitochondrial protein	Diablo	100754770	42.02	42.18	41.87	44.57	47.33	49.59	1171.21	1221.57	1141.48	1238.89	1308.22	1359.94
diaphanous-related formin 1	Diaph1	100752938	12.95	13.19	13.88	14.96	15.56	16.74	1473.51	1540.00	1638.31	1717.52	1753.27	1893.64
diaphanous-related formin 3	Diaph3	100772633	13.41	13.02	13.73	15.80	19.25	16.76	1669.47	1662.62	1733.95	1930.76	2350.45	2095.53
dicer 1, ribonuclease type III	Dicer1	100689239	10.60	10.68	9.93	11.74	11.20	11.61	1979.36	2024.05	1885.49	2230.92	2121.72	2172.17
death inducer-obliterator 1	Dido1	100757601	16.09	16.87	15.61	16.56	15.82	16.50	3003.22	3066.28	3551.13	3356.23	3239.51	3409.68
digestive organ expansion factor homolog (zebrafish)	Diexf	100765405	30.48	30.03	29.75	28.66	27.12	29.26	2273.30	2236.34	2269.29	2124.30	2048.24	2133.85
DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae)	Dimt1	100756397	6.34	6.02	6.61	7.51	8.04	7.74	614.47	586.54	674.45	712.74	764.85	696.33
deiodinase, iodothyronine, type I	Dio1	100765192	0.00	0.06	0.00	0.00	0.00	0.04	0.00	2.75	1.24	1.16	2.07	2.80
deiodinase, iodothyronine, type II	Dio2	100774757	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
deiodinase, iodothyronine, type III	Dio3	100753739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DIP2 disco-interacting protein 2 homolog A (Drosophila)	Dip2a	100763951	12.39	11.55	12.39	12.55	11.55	12.32	2357.61	2221.70	2407.16	2424.46	2175.54	2354.43
DIP2 disco-interacting protein 2 homolog B (Drosophila)	Dip2b	100750591	6.75	7.04	7.27	7.88	8.02	8.10	1058.04	1109.02	1120.36	1207.59	1239.91	1277.69
DIP2 disco-interacting protein 2 homolog C (Drosophila)	Dip2c	100754252	6.79	7.23	5.57	5.43	4.79	5.29	871.95	843.66	849.59	880.78	756.57	817.84
DIRAS family, GTP-binding RAS-like 1	Diras1	100765547	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
DIRAS family, GTP-binding RAS-like 2	Diras2	100758943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disrupted in renal carcinoma 2	Dirc2	100767130	7.60	7.68	8.75	8.72	8.94	8.66	383.57	391.63	435.97	431.12	451.25	433.69
DIS3 exosome endoribonuclease and 3'-5' exoribonuclease	Dis3	100750372	13.67	13.08	13.36	15.15	14.99	13.78	1912.52	1854.77	1919.02	2135.89	2141.39	1931.96
DIS3 like exosome 3'-5' exoribonuclease	Dis3l	100767879	6.16	5.97	7.64	8.28	8.02	8.36	603.07	596.60	761.40	811.24	803.15	832.79
DIS3 like 3'-5' exoribonuclease 2	Dis3l2	100774616	5.54	5.96	5.56	5.36	5.10	5.54	491.42	519.74	481.93	469.36	446.08	476.68
disrupted in schizophrenia 1	Disc1	100772120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dispatched homolog 1 (Drosophila)	Disp1	100772392	8.33	8.18	8.91	8.84	7.89	7.88	1172.73	1150.20	1247.06	1238.89	1051.55	1085.15
dispatched homolog 2 (Drosophila)	Disp2	100759267	0.00	0.01	0.00	0.01	0.02	0.00	0.00	0.92	0.00	1.16	2.07	0.00
DIX domain containing 1	Dixdc1	100773209	8.24	9.03	8.30	9.13	10.97	10.28	999.55	1091.64	1016.03	1084.75	1261.65	1203.85
dyskeratosis congenita 1, dyskerin	Dkc1	100755395	145.38	145.33	138.28	141.89	139.07	137.22	10331.25	10493.60	10009.98	10152.14	9893.43	9779.45
dickkopf WNT signaling pathway inhibitor 1	Dkk1	100769380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

dickkopf WNT signaling pathway inhibitor 2	Dkk2	100774823	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dickkopf WNT signaling pathway inhibitor 3	Dkk3	100767109	97.56	100.20	145.00	144.22	139.96	141.56	6626.22	6886.54	9951.60	9810.26	9510.49	9612.14
dickkopf WNT signaling pathway inhibitor 4	Dkk4	100774676	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.24	2.32	1.03	0.93
dickkopf-like 1	Dkkl1	100771803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dihydrolipoamide S-acetyltransferase	Dlat	100773493	40.79	37.91	45.93	44.23	42.99	44.58	2630.28	2475.17	2979.77	2852.10	2841.04	2898.41
deleted in liver cancer 1	Dlc1	100771649	15.09	15.12	11.15	11.94	10.95	10.12	2710.04	2733.21	2028.33	2146.32	1950.95	1827.28
dihydrolipoamide dehydrogenase	Dld	100689437	65.09	70.36	61.27	69.65	75.95	72.25	4094.68	4272.29	3778.43	4130.39	4584.99	4458.37
deleted in lung and esophageal cancer 1	Dlec1	100753645	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
deleted in lymphocytic leukemia, 7	Dleu7	100753133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
discs, large homolog 1 (Drosophila)	Dlg1	100774630	20.95	20.70	19.52	21.36	22.68	21.10	2791.31	2778.04	2612.11	2833.56	2990.08	2818.03
discs, large homolog 2 (Drosophila)	Dlg2	100752752	0.00	0.02	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
discs, large homolog 3 (Drosophila)	Dlg3	100770281	9.09	8.50	9.18	9.93	10.49	9.95	950.94	881.18	1017.27	1075.48	1129.17	1082.35
discs, large homolog 4 (Drosophila)	Dlg4	100762874	2.88	2.74	3.16	3.22	2.98	2.94	265.08	256.21	283.20	272.35	262.89	242.08
discs, large homolog 5 (Drosophila)	Dlg5	100762401	13.77	13.53	12.74	13.39	11.52	12.34	3047.27	3018.70	2851.83	2952.93	2528.47	2676.89
discs, large (Drosophila) homolog-associated protein 1	Dlgap1	100774912	0.26	0.23	0.21	0.11	0.11	0.10	19.75	17.39	14.91	8.11	10.35	9.35
discs, large (Drosophila) homolog-associated protein 2	Dlgap2	100758058	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
discs, large (Drosophila) homolog-associated protein 3	Dlgap3	100760476	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	3.74
discs, large (Drosophila) homolog-associated protein 4	Dlgap4	100752581	13.39	13.13	13.66	11.15	8.23	9.38	1483.38	1444.84	1500.44	1228.46	905.61	1058.05
discs, large (Drosophila) homolog-associated protein 5	Dlgap5	100755750	38.82	42.16	37.29	44.52	53.17	51.59	3277.41	3565.89	3167.32	3740.99	4440.09	4325.65
delta-like 1 homolog (Drosophila)	Dlk1	100762551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
delta-like 2 homolog (Drosophila)	Dlk2	100754430	0.09	0.11	0.12	0.06	0.03	0.07	4.56	4.58	4.97	2.32	1.03	2.80
delta-like 1 (Drosophila)	Dll1	100750697	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
delta-like 3 (Drosophila)	Dll3	100773804	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
delta-like 4 (Drosophila)	Dll4	100763048	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.93
dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	Dlst	100758466	135.16	135.44	137.79	138.09	138.64	143.98	10446.70	10510.08	10775.10	10579.78	10653.11	11113.22
distal-less homeobox 1	Dlx1	100768966	4.22	3.97	3.84	3.43	2.93	3.36	298.50	286.41	275.74	245.69	212.17	240.21
distal-less homeobox 2	Dlx2	100769245	3.00	3.05	2.89	2.54	2.93	3.13	208.87	217.78	211.15	178.47	202.86	223.39
distal-less homeobox 3	Dlx3	100758183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
distal-less homeobox 4	Dlx4	100757892	6.70	6.64	2.21	2.23	3.88	3.76	642.57	630.46	202.46	207.45	340.51	332.74
distal-less homeobox 5	Dlx5	100766793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
distal-less homeobox 6	Dlx6	100770813	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA methyltransferase 1 associated protein 1	Dmap1	100756406	33.46	33.34	35.80	32.83	27.46	31.02	1531.99	1562.88	1675.58	1496.17	1293.73	1416.02
deleted in malignant brain tumors 1	Dmbt1	100763251	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
diencephalon/mesencephalon homeobox 1	Dmbx1	100770688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA meiotic recombinase 1	Dmc1	100750348	0.00	0.04	0.10	0.09	0.04	0.00	0.00	0.92	2.48	3.48	3.10	0.93
dystrophin	Dmd	100774409	7.50	7.47	7.79	8.79	9.55	9.45	914.49	912.29	1027.21	1077.80	1199.55	1166.47
dimethylglycine dehydrogenase	Dmgdh	100759503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

dermokine	Dmkn	100752030	0.03	0.00	0.13	0.17	0.04	0.04	3.04	0.00	7.45	9.27	2.07	1.87
dentin matrix acidic phosphoprotein 1	Dmp1	100773494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dystrophia myotonica-protein kinase	Dmpk	103164072	0.05	0.18	0.00	0.24	0.07	0.06	4.56	8.24	3.73	3.48	1.03	2.80
doublesex and mab-3 related transcription factor 1	Dmrt1	100757765	0.43	0.36	0.00	0.04	0.00	0.03	15.19	13.73	0.00	1.16	0.00	0.93
doublesex and mab-3 related transcription factor 2	Dmrt2	100756035	0.03	0.02	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
doublesex and mab-3 related transcription factor 3	Dmrt3	100759006	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
DMRT-like family B with proline-rich C-terminal, 1	Dmrtb1	100772202	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.87
DMRT-like family C2	Dmrtc2	100759114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin D binding myb-like transcription factor 1	Dmtf1	100760330	30.36	31.28	27.90	31.34	34.70	31.56	3086.77	3189.81	2855.56	3197.46	3504.46	3180.68
dematin actin binding protein	Dmtn	100764907	3.81	3.76	2.72	3.03	2.69	3.29	285.59	277.26	211.15	210.92	208.03	243.01
dystrophia myotonica, WD repeat containing	Dmwd	100757796	13.18	11.81	11.97	7.62	4.95	4.30	622.06	572.81	541.55	356.95	227.70	214.04
Dmx-like 1	Dmxl1	100773136	2.75	2.75	2.95	3.71	3.84	3.44	916.00	919.61	1013.54	1231.93	1269.93	1134.69
Dmx-like 2	Dmxl2	100753187	0.01	0.00	0.00	0.00	0.00	0.00	3.04	0.00	1.24	0.00	0.00	0.93
DNA replication helicase/nuclease 2	Dna2	100761842	1.46	1.33	1.60	2.41	2.39	2.14	120.77	112.55	144.08	187.75	193.54	162.63
dynein, axonemal, assembly factor 1	Dnaaf1	100774628	2.51	2.75	2.25	2.15	2.37	2.22	163.30	175.69	145.32	139.07	155.25	147.68
dynein, axonemal, assembly factor 2	Dnaaf2	100753981	11.33	11.70	15.69	17.01	17.91	17.54	483.07	504.18	665.76	717.37	765.89	742.13
dynein, axonemal, heavy chain 1	Dnah1	100765769	0.00	0.00	0.01	0.00	0.00	0.00	4.56	3.66	7.45	4.64	8.28	10.28
dynein, axonemal, heavy chain 10	Dnah10	103161549	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	1.03	0.93
dynein, axonemal, heavy chain 11	Dnah11	100770442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein, axonemal, heavy chain 12	Dnah12	100750737	0.66	0.67	0.65	0.72	0.72	0.67	304.58	296.47	288.16	343.04	337.41	299.09
dynein, axonemal, heavy chain 14	Dnah14	100752669	0.04	0.04	0.02	0.01	0.04	0.03	10.63	13.73	3.73	5.79	16.56	6.54
dynein, axonemal, heavy chain 17	Dnah17	100768695	0.11	0.08	0.10	0.07	0.06	0.08	47.09	32.94	44.72	34.77	25.87	39.26
dynein, axonemal, heavy chain 2	Dnah2	100756503	0.00	0.00	0.00	0.00	0.00	0.00	0.76	3.66	0.00	1.16	0.00	0.00
dynein, axonemal, heavy chain 3	Dnah3	100752771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.93
dynein, axonemal, heavy chain 5	Dnah5	100771964	0.01	0.02	0.00	0.00	0.02	0.02	5.32	10.07	1.24	0.00	10.35	7.48
dynein, axonemal, heavy chain 6	Dnah6	100754128	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	1.87
dynein, axonemal, heavy chain 7	Dnah7	100752773	11.12	10.80	12.59	13.37	13.74	11.96	582.57	597.52	696.81	744.03	765.89	651.46
dynein, axonemal, heavy chain 8	Dnah8	100763108	1.80	1.88	2.14	2.27	2.30	2.19	857.52	892.16	994.91	1044.19	1074.32	1029.07
dynein, axonemal, heavy chain 9	Dnah9	100770690	0.01	0.01	0.03	0.01	0.02	0.01	4.56	6.41	16.15	3.48	10.35	11.22
dynein, axonemal, intermediate chain 1	Dnai1	100754021	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
dynein, axonemal, intermediate chain 2	Dnai2	100761698	0.27	0.10	0.05	0.19	0.06	0.05	21.27	10.98	7.45	16.22	7.24	6.54
DnaJ (Hsp40) homolog, subfamily A, member 1	Dnaja1	100689381	36.94	38.02	44.24	51.49	51.09	49.63	1879.86	1900.52	2212.16	2569.33	2564.70	2488.09
DnaJ (Hsp40) homolog, subfamily A, member 2	Dnaja2	100766736	74.59	73.98	75.51	80.48	84.07	84.12	4549.64	4596.21	4729.87	4937.00	5145.95	5112.64
DnaJ (Hsp40) homolog, subfamily A, member 3	Dnaja3	100774313	51.91	49.86	58.57	60.86	56.59	58.98	3822.76	3761.70	4380.84	4465.32	4154.44	4328.46

DnaJ (Hsp40) homolog, subfamily A, member 4	Dnaja4	100755057	0.36	0.40	0.33	0.46	0.44	0.59	36.46	45.75	37.26	52.15	43.47	62.62
DnaJ (Hsp40) homolog, subfamily B, member 1	Dnajb1	100753924	8.10	8.32	10.35	10.41	9.25	10.38	496.74	505.10	632.22	632.77	556.82	642.12
DnaJ (Hsp40) homolog, subfamily B, member 11	Dnajb11	100765455	63.77	64.80	66.78	71.34	73.28	72.28	3032.08	3090.98	3225.70	3394.48	3484.80	3418.09
DnaJ (Hsp40) homolog, subfamily B, member 12	Dnajb12	100759717	27.13	26.52	25.80	23.32	19.50	20.51	2435.08	2394.64	2357.48	2123.14	1769.83	1859.06
DnaJ (Hsp40) homolog, subfamily B, member 13	Dnajb13	100759263	0.97	1.11	0.25	0.53	0.51	0.70	48.61	55.82	9.94	28.97	26.91	34.58
DnaJ (Hsp40) homolog, subfamily B, member 14	Dnajb14	100752201	7.17	4.83	6.16	9.27	2.23	3.96	196.72	159.22	170.17	173.84	162.49	156.09
DnaJ (Hsp40) homolog, subfamily B, member 2	Dnajb2	100773438	41.76	39.08	48.52	46.58	39.92	45.10	2474.58	2349.81	2904.00	2798.79	2420.83	2635.77
DnaJ (Hsp40) homolog, subfamily B, member 3	Dnajb3	100755138	1.95	1.97	1.25	1.73	1.01	1.62	47.85	46.67	31.05	42.88	23.80	41.13
DnaJ (Hsp40) homolog, subfamily B, member 4	Dnajb4	100757372	9.45	10.16	11.93	14.13	15.53	15.17	524.84	549.94	663.27	797.34	850.76	844.01
DnaJ (Hsp40) homolog, subfamily B, member 5	Dnajb5	100750493	1.17	1.39	0.91	1.26	1.01	0.81	107.10	128.10	83.22	117.05	92.11	77.58
DnaJ (Hsp40) homolog, subfamily B, member 6	Dnajb6	100758507	93.08	98.44	86.48	89.79	95.81	94.99	2771.56	2972.94	2501.56	2586.71	2675.44	2693.72
DnaJ (Hsp40) homolog, subfamily B, member 7	Dnajb7	100762842	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00	1.24	0.00	1.03	0.00
DnaJ (Hsp40) homolog, subfamily B, member 8	Dnajb8	100762038	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DnaJ (Hsp40) homolog, subfamily B, member 9	Dnajb9	100763648	9.63	9.77	15.00	15.58	15.92	15.40	634.22	652.42	1004.85	1046.50	1045.34	1029.07
DnaJ (Hsp40) homolog, subfamily C, member 1	Dnajc1	100751540	5.05	4.79	5.21	6.03	5.47	5.23	285.59	301.96	286.92	321.02	324.99	288.81
DnaJ (Hsp40) homolog, subfamily C, member 10	Dnajc10	100689230	50.71	52.73	63.59	72.41	78.34	72.90	5745.15	6057.52	7278.63	8110.12	8826.36	8146.58
DnaJ (Hsp40) homolog, subfamily C, member 11	Dnajc11	100760814	40.29	40.99	40.36	38.75	29.57	33.35	4143.29	4200.00	4157.26	4002.91	3133.94	3490.99
DnaJ (Hsp40) homolog, subfamily C, member 12	Dnajc12	100758554	0.93	1.19	0.65	0.91	1.21	1.50	44.81	45.75	27.33	41.72	39.33	62.62
DnaJ (Hsp40) homolog, subfamily C, member 13	Dnajc13	100763365	20.25	20.14	19.14	22.68	24.54	23.58	4724.33	4805.76	4604.42	5405.20	5775.22	5540.72
DnaJ (Hsp40) homolog, subfamily C, member 14	Dnajc14	100771122	21.71	20.60	24.25	23.78	32.16	32.74	2322.67	2219.87	2633.22	2584.39	3529.30	3599.41
DnaJ (Hsp40) homolog, subfamily C, member 15	Dnajc15	100770437	42.95	38.70	37.92	38.00	44.31	43.38	1168.17	1122.75	1049.56	1032.60	1181.95	1173.01
DnaJ (Hsp40) homolog, subfamily C, member 16	Dnajc16	100751780	8.63	8.42	9.43	8.60	8.86	9.23	1159.06	1141.05	1281.83	1169.35	1195.41	1271.15
DnaJ (Hsp40) homolog, subfamily C, member 17	Dnajc17	100752047	17.18	17.26	20.10	17.48	15.81	17.36	502.06	495.95	587.51	485.59	457.46	493.51
DnaJ (Hsp40) homolog, subfamily C, member 18	Dnajc18	100756658	5.61	6.42	7.39	7.20	9.16	8.56	202.04	243.40	262.08	270.03	324.99	315.92
DnaJ (Hsp40) homolog, subfamily C, member 19	Dnajc19	100751082	24.73	30.23	26.08	27.91	30.78	28.75	587.88	679.87	597.44	646.68	734.84	653.33
DnaJ (Hsp40) homolog, subfamily C, member 2	Dnajc2	100757311	82.26	82.28	84.48	95.47	87.43	80.31	5477.04	5613.73	5755.83	6401.87	5826.97	5254.71
DnaJ (Hsp40) homolog, subfamily C, member 21	Dnajc21	100759616	30.58	29.62	28.41	31.43	30.70	27.35	1755.30	1723.01	1639.55	1775.47	1746.02	1544.07

DnaJ (Hsp40) homolog, subfamily C, member 22	Dnajc22	100769451	29.90	28.64	25.56	27.47	23.91	27.66	1423.38	1360.65	1245.81	1309.58	1132.28	1284.24
DnaJ (Hsp40) homolog, subfamily C, member 24	Dnajc24	100766077	17.03	17.53	12.62	15.94	19.53	17.55	1003.35	1032.16	724.14	925.98	1085.70	1007.57
DnaJ (Hsp40) homolog, subfamily C , member 25	Dnajc25	100756280	21.75	21.37	24.24	24.14	27.44	27.92	623.58	629.54	686.87	693.03	793.83	788.86
DnaJ (Hsp40) homolog, subfamily C, member 27	Dnajc27	100756026	2.34	1.97	2.22	2.44	2.31	2.01	307.61	260.78	296.86	319.86	300.15	268.25
DnaJ (Hsp40) homolog, subfamily C, member 28	Dnajc28	100769155	2.74	3.02	2.60	3.50	4.58	3.29	113.93	120.78	105.58	137.91	179.05	142.07
DnaJ (Hsp40) homolog, subfamily C, member 3	Dnajc3	100766172	15.85	16.73	17.18	19.54	20.57	18.74	2273.30	2411.11	2501.56	2780.25	2924.87	2644.18
DnaJ (Hsp40) homolog, subfamily C, member 30	Dnajc30	103162154	4.85	5.52	4.92	5.42	5.91	5.66	212.67	238.82	214.88	237.58	254.61	245.82
DnaJ (Hsp40) homolog, subfamily C, member 4	Dnajc4	100756870	9.34	9.47	13.43	12.38	9.87	8.33	290.14	304.71	397.47	354.63	302.22	269.18
DnaJ (Hsp40) homolog, subfamily C, member 5	Dnajc5	100763676	63.98	64.81	61.22	63.73	68.02	71.23	7655.40	7767.72	7394.14	7634.96	8057.37	8569.99
DnaJ (Hsp40) homolog, subfamily C, member 5 beta	Dnajc5b	100774239	0.23	0.00	0.19	0.00	0.32	0.00	3.04	0.00	2.48	0.00	4.14	0.00
DnaJ (Hsp40) homolog, subfamily C, member 6	Dnajc6	100756272	1.19	1.30	1.71	1.65	1.62	1.72	195.20	212.29	254.63	254.96	244.26	268.25
DnaJ (Hsp40) homolog, subfamily C, member 7	Dnajc7	100753520	201.80	199.29	141.18	140.18	123.31	128.94	6380.89	6512.29	4329.91	4504.72	4209.29	4340.61
DnaJ (Hsp40) homolog, subfamily C, member 8	Dnajc8	100771757	143.05	149.08	145.90	142.21	137.03	138.12	4907.38	5108.63	4855.32	4698.26	4553.94	4585.49
DnaJ (Hsp40) homolog, subfamily C, member 9	Dnajc9	100762162	59.77	62.09	81.64	82.86	90.84	87.26	2071.26	2162.22	2794.70	2843.99	3075.98	2963.84
dynein, axonemal, light chain 1	Dnal1	100774309	4.04	4.46	4.45	4.46	6.39	6.18	183.05	225.10	213.64	217.88	291.87	277.60
dynein, axonemal, light chain 4	Dnal4	100772767	11.85	11.63	13.54	13.78	12.04	12.24	461.80	453.86	522.92	528.47	460.57	472.01
dynein, axonemal, light intermediate chain 1	Dnali1	100754224	0.30	0.22	0.50	0.45	0.37	0.48	23.55	19.22	36.02	34.77	23.80	29.91
deoxyribonuclease I	Dnase1	100764185	0.26	0.36	0.13	0.17	0.39	0.16	23.55	25.62	14.91	11.59	25.87	16.82
deoxyribonuclease I-like 1	Dnase1l1	100689095	4.02	4.20	5.56	5.35	5.93	6.02	241.53	257.12	336.61	327.97	357.07	365.46
deoxyribonuclease I-like 2	Dnase1l2	100770467	0.52	0.33	0.45	0.42	0.32	0.66	2.28	1.83	3.73	2.32	0.00	7.48
deoxyribonuclease I-like 3	Dnase1l3	100769677	4.88	5.12	3.42	2.82	4.25	4.48	207.35	201.31	137.87	130.96	197.68	193.48
deoxyribonuclease II, lysosomal	Dnase2	100763100	49.95	46.87	65.66	63.50	64.68	69.75	2160.13	2064.32	2855.56	2744.32	2793.43	2990.01
deoxyribonuclease II beta	Dnase2b	100767962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DND microRNA-mediated repression inhibitor 1	Dnd1	100755307	0.28	0.28	0.03	0.20	0.09	0.16	17.47	15.56	6.21	13.91	6.21	7.48
delta/notch-like EGF repeat containing	Dner	100755447	0.52	0.47	0.00	0.00	0.00	0.00	3.04	3.66	0.00	0.00	0.00	0.00
dynein heavy chain domain 1	Dnhd1	100761219	0.10	0.08	0.08	0.11	0.08	0.09	66.08	53.99	50.93	75.33	57.96	62.62
DNL-type zinc finger	Dnlz	100761013	20.44	17.29	21.86	15.58	10.69	13.70	364.58	309.28	376.35	280.46	194.58	248.62
dynamin 1	Dnm1	100753867	0.46	0.48	0.23	0.04	0.04	0.08	56.97	62.22	36.02	13.91	6.21	13.09
dynamin 1-like	Dnm1l	100750819	30.47	29.73	32.01	37.07	39.82	35.35	3610.09	3601.57	3845.50	4410.85	4709.19	4229.38
dynamin 2	Dnm2	100771373	17.04	16.76	18.68	18.81	16.95	17.45	1952.02	1979.22	2254.39	2198.47	2024.43	2118.90

dynamin 3	Dnm3	100772324	0.04	0.03	0.02	0.05	0.00	0.00	3.80	2.75	1.24	2.32	0.00	0.00
dynamin binding protein	Dnmbp	100752556	11.16	10.54	12.27	11.76	9.74	10.56	972.97	927.84	1084.34	1026.80	859.04	922.52
DNA (cytosine-5-)-methyltransferase 1	Dnmt1	100762713	37.58	38.72	45.37	47.06	44.93	45.92	6272.27	6525.10	7633.87	7804.17	7400.15	7606.34
DNA (cytosine-5-)-methyltransferase 3 alpha	Dnmt3a	100771064	5.27	5.17	4.88	4.86	4.29	4.39	1414.26	1400.92	1351.39	1336.23	1164.36	1199.18
DNA (cytosine-5-)-methyltransferase 3-like	Dnmt3l	100768334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aspartyl aminopeptidase	Dnpep	100764694	37.10	36.51	38.87	34.91	27.45	30.81	1917.08	1918.83	2084.22	1803.28	1494.52	1584.27
2'-deoxynucleoside 5'-phosphate N-hydrolase 1	Dnph1	100756461	29.09	22.57	23.47	19.84	16.21	14.43	363.82	296.47	290.65	236.42	195.61	177.59
DNA nucleotidylexotransferase	Dntt	100755735	0.00	0.00	0.00	0.00	0.02	0.00	0.76	0.92	0.00	0.00	1.03	0.00
deoxynucleotidyltransferase, terminal, interacting protein 1	Dnttip1	100769006	44.08	44.24	47.71	48.65	48.96	52.61	1453.76	1450.33	1565.03	1542.52	1594.91	1693.62
deoxynucleotidyltransferase, terminal, interacting protein 2	Dnttip2	100774727	113.79	111.15	111.48	133.39	121.88	110.10	7870.35	7723.80	7764.28	9223.84	8406.16	7593.26
double C2-like domains, alpha	Doc2a	100773354	3.41	3.16	2.69	1.55	0.99	1.32	391.92	349.54	428.52	361.58	284.62	310.31
double C2-like domains, beta	Doc2b	100759731	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dedicator of cytokinesis 10	Dock10	100768884	0.44	0.51	0.27	0.27	0.19	0.17	34.94	32.03	17.39	17.38	13.45	12.15
dedicator of cytokinesis 11	Dock11	100771666	6.69	6.72	7.35	8.87	10.43	9.78	1432.49	1452.16	1602.29	1889.04	2223.15	2054.40
dedicator of cytokinesis 2	Dock2	100766266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dedicator of cytokinesis 3	Dock3	100768911	2.60	2.40	2.73	3.13	3.00	2.76	755.74	705.49	787.48	917.86	839.37	801.95
dedicator of cytokinesis 4	Dock4	100772385	4.88	4.69	10.93	13.06	11.67	11.88	1249.44	1214.25	2823.26	3323.78	2918.66	3030.20
dedicator of cytokinesis 5	Dock5	100752876	21.89	22.18	20.52	23.75	26.96	26.13	3184.75	3220.00	3017.03	3382.89	3849.11	3757.37
dedicator of cytokinesis 6	Dock6	100769954	0.58	0.60	0.51	0.47	0.37	0.35	139.76	147.32	116.76	112.42	83.83	83.19
dedicator of cytokinesis 7	Dock7	100758142	27.85	28.21	28.04	32.07	36.25	34.11	5504.38	5597.26	5581.94	6311.48	7103.11	6734.30
dedicator of cytokinesis 8	Dock8	100757085	9.70	9.50	8.62	8.53	9.11	9.46	1667.95	1663.53	1515.35	1467.19	1544.20	1623.52
dedicator of cytokinesis 9	Dock9	100768424	4.42	4.28	4.15	4.64	5.02	4.63	1036.77	1060.52	1019.75	1109.09	1213.00	1088.89
deoxyhypusine hydroxylase/monooxygenase	Dohh	100771021	29.58	27.99	24.68	11.55	6.33	6.93	1311.72	1246.28	1093.04	522.67	315.67	307.51
docking protein 1, 62kDa (downstream of tyrosine kinase 1)	Dok1	100760042	15.57	15.00	17.44	14.78	13.33	13.50	1014.74	984.58	1096.76	927.14	831.09	915.04
docking protein 2, 56kDa	Dok2	100764015	0.03	0.10	0.00	0.00	0.02	0.00	2.28	4.58	0.00	0.00	1.03	0.00
docking protein 3	Dok3	100763567	0.31	0.13	0.08	0.15	0.07	0.08	18.99	9.15	4.97	10.43	5.17	6.54
docking protein 4	Dok4	100766625	4.71	4.46	3.43	4.51	4.07	4.37	285.59	282.75	221.09	292.05	249.43	262.64
docking protein 5	Dok5	100751739	15.48	16.06	15.34	14.97	19.31	20.60	607.63	640.52	622.29	553.96	721.39	786.99
docking protein 6	Dok6	100763321	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
docking protein 7	Dok7	100765890	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dolichol kinase	Dolk	100768385	6.48	6.30	5.84	5.98	5.52	5.79	362.30	354.12	329.15	336.09	305.32	320.59
dolichyldiphosphatase 1	Dolpp1	100761712	10.21	10.92	9.19	9.35	9.40	8.50	464.84	486.80	412.37	389.40	387.08	362.65
downstream neighbor of SON	Donson	100769724	15.18	14.73	17.56	19.51	22.66	21.83	1065.63	1037.65	1235.88	1371.00	1601.12	1542.20
dopey family member 1	Dopey1	100763056	5.40	5.44	2.68	3.22	3.53	3.31	1275.27	1296.60	647.13	766.05	830.06	793.53
dopey family member 2	Dopey2	100751759	2.15	2.46	2.20	2.27	2.33	2.03	505.09	579.22	512.98	527.31	541.30	486.03
DOT1-like histone H3K79 methyltransferase	Dot1l	100771005	12.95	12.40	10.31	7.63	5.01	5.61	2195.07	2094.51	1724.02	1321.17	905.61	1008.51

dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminephosphotransferase 1 (GlcNAc-1-P transferase)	Dpagt1	100689054	95.59	110.27	107.11	113.77	136.71	127.23	2779.15	2949.15	3413.25	3487.19	3725.95	3621.85
deleted in primary ciliary dyskinesia homolog (mouse)	Dpcd	100751595	13.47	13.89	16.06	14.49	13.74	14.18	416.23	438.30	479.45	441.55	410.89	425.27
diffuse panbronchiolitis critical region 1	Dpcr1	100755283	0.00	0.02	0.00	0.06	0.00	0.02	0.00	0.92	0.00	2.32	1.03	1.87
dipeptidase 1 (renal)	Dpep1	100762968	0.04	0.13	0.00	0.03	0.00	0.03	2.28	8.24	0.00	1.16	0.00	0.93
dipeptidase 3	Dpep3	100756154	0.04	0.07	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
D4, zinc and double PHD fingers family 2	Dpf2	100767725	41.02	37.10	42.83	42.68	40.28	43.36	2820.17	2556.60	3012.06	2940.18	2790.32	2956.36
D4, zinc and double PHD fingers, family 3	Dpf3	100760706	2.10	1.92	1.46	1.03	1.77	2.00	70.64	75.95	50.93	40.56	60.03	61.69
diphthamide biosynthesis 1	Dph1	100765648	73.66	69.49	74.37	68.12	48.75	50.90	3120.19	2983.01	3228.18	2941.34	2189.00	2235.73
DPH2 homolog (S. cerevisiae)	Dph2	100689365	20.87	21.77	22.59	19.43	12.87	14.84	1060.32	1102.62	1138.99	998.99	704.83	764.56
diphthamide biosynthesis 3	Dph3	100689295	3.06	2.90	2.07	3.36	2.25	5.97						
diphthamide biosynthesis 3	Dph3	100768092	84.29	78.59	69.50	72.27	70.43	71.88	736.75	629.54	585.02	614.23	597.19	665.48
diphthamide biosynthesis 5	Dph5	100755934	30.56	30.75	23.86	26.18	22.39	18.76	513.45	537.12	417.34	441.55	371.56	327.13
diphthamine biosynthesis 6	Dph6	100765802	16.50	17.31	14.76	16.91	16.56	19.41	418.51	436.47	375.11	391.71	413.99	468.27
diphthamide biosynthesis 7	Dph7	100753959	7.90	7.88	9.22	9.06	8.49	8.56	789.92	786.93	911.69	895.85	863.18	877.65
dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit	Dpm1	100689420	52.82	53.45	49.95	53.74	66.14	64.97	1555.54	1562.88	1473.11	1522.82	1909.55	1817.93
dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit	Dpm2	100689294	52.13	50.07	56.17	55.51	48.01	57.87	977.53	962.62	1029.69	954.95	820.74	931.87
dolichyl-phosphate mannosyltransferase polypeptide 3	Dpm3	100689451	12.64	12.19	14.52	3.81	0.83	1.97	88.87	81.44	100.61	27.81	7.24	14.02
dipeptidyl-peptidase 10 (non-functional)	Dpp10	100761750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dipeptidyl-peptidase 3	Dpp3	100760621	49.79	49.95	54.90	52.42	46.04	50.77	3484.77	3541.18	3879.04	3676.09	3134.97	3458.28
dipeptidyl-peptidase 4	Dpp4	100768361	0.00	0.00	0.00	0.00	0.00	0.01	0.76	0.00	0.00	0.00	0.00	0.93
dipeptidyl-peptidase 6	Dpp6	100774564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dipeptidyl-peptidase 7	Dpp7	100756223	77.43	75.80	89.85	84.45	67.11	75.85	3967.07	3888.89	4557.22	4198.77	3370.95	3815.32
dipeptidyl-peptidase 8	Dpp8	100773914	31.40	32.04	35.50	38.48	41.80	40.68	4978.78	5104.06	5631.62	6090.12	6546.29	6448.29
dipeptidyl-peptidase 9	Dpp9	100757878	20.66	20.23	18.31	15.81	11.89	13.33	2365.21	2365.36	2110.31	1747.65	1379.64	1493.60
developmental pluripotency associated 2	Dppa2	100760093	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
developmental pluripotency associated 4	Dppa4	100760387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
developmental pluripotency associated 5	Dppa5	100755380	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
dermatopontin	Dpt	100765812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dpy-19-like 1 (C. elegans)	Dpy19l1	100765722	12.97	12.92	12.74	13.92	16.45	16.48	1776.56	1778.83	1755.07	1921.49	2247.99	2252.55
dpy-19-like 2 (C. elegans)	Dpy19l2	100752353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dpy-19-like 3 (C. elegans)	Dpy19l3	100756435	19.07	19.38	17.17	16.06	16.66	17.05	3180.19	3250.20	2944.99	2673.63	2803.78	2885.33
dpy-19-like 4 (C. elegans)	Dpy19l4	100759810	3.86	3.58	4.57	4.66	5.15	4.68	398.00	378.82	481.93	475.16	522.67	485.09

dpy-30 homolog (C. elegans)	Dpy30	100763394	91.66	90.63	95.51	93.57	106.01	97.32	1087.66	1035.82	1112.91	1131.11	1374.46	1225.35
dihydropyrimidine dehydrogenase	Dpyd	100765169	16.82	17.47	23.00	27.25	20.68	25.43	280.27	326.67	481.93	501.81	466.78	485.09
dihydropyrimidinase	Dpys	100752636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dihydropyrimidinase-like 2	Dpysl2	100759148	10.69	10.55	13.90	14.65	16.05	16.87	1485.66	1490.59	1988.58	2064.04	2254.20	2370.32
dihydropyrimidinase-like 3	Dpysl3	100755197	0.16	0.09	0.00	0.03	0.02	0.01	25.06	17.39	1.24	4.64	1.03	0.93
dihydropyrimidinase-like 4	Dpysl4	100774927	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dihydropyrimidinase-like 5	Dpysl5	100761240	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	0.00	1.87
DEAQ box RNA-dependent ATPase 1	Dqx1	100761206	1.66	1.32	1.75	1.80	1.35	1.58	166.34	144.58	182.59	187.75	165.60	174.78
down-regulator of transcription 1, TBP-binding (negative cofactor 2)	Dr1	100765234	66.75	70.00	76.03	77.39	81.03	77.83	2989.55	3101.05	3436.85	3519.64	3696.97	3673.25
DNA-damage regulated autophagy modulator 1	Dram1	100774664	6.03	5.66	5.04	6.16	6.84	5.99	516.49	482.22	447.15	526.15	582.70	523.42
DNA-damage regulated autophagy modulator 2	Dram2	100772594	8.46	7.44	6.95	8.99	10.01	9.29	495.98	465.75	419.83	526.15	572.35	551.46
DR1-associated protein 1 (negative cofactor 2 alpha)	Drap1	100765946	253.91	254.34	273.46	218.78	186.25	198.70	5931.24	6070.33	6451.40	5198.91	4307.61	4451.83
dynein regulatory complex subunit 1 homolog (Chlamydomonas)	Drc1	100759288	0.04	0.03	0.02	0.02	0.02	0.01	3.80	2.75	1.24	1.16	4.14	0.93
dopamine receptor D1	Drd1	100760963	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
dopamine receptor D2	Drd2	100751925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dopamine receptor D3	Drd3	100769070	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dopamine receptor D4	Drd4	100751093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
dopamine receptor D5	Drd5	100752680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
developmentally regulated GTP binding protein 1	Drg1	100764489	39.75	38.83	41.96	37.54	40.37	41.17	1680.86	1673.60	1837.05	1585.40	1726.36	1741.29
developmentally regulated GTP binding protein 2	Drg2	100771930	28.50	28.19	31.56	29.74	26.39	28.29	1458.32	1436.60	1612.23	1498.48	1338.24	1446.87
dorsal root ganglia homeobox	Drgx	100770585	0.04	0.01	0.00	0.00	0.03	0.03	2.28	0.92	0.00	0.00	2.07	2.80
drosha, ribonuclease type III	Drosha	100766983	37.48	37.16	43.50	46.48	47.30	47.72	5182.34	5160.79	6067.59	6325.38	6427.26	6546.43
dystrophin related protein 2	Drp2	100771867	0.02	0.00	0.08	0.00	0.04	0.01	2.28	0.00	6.21	1.16	5.17	1.87
desmocollin 1	Dsc1	100762663	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
desmocollin 2	Dsc2	100762954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
desmocollin 3	Dsc3	100771819	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Down syndrome cell adhesion molecule	Dscam	100765236	0.03	0.02	0.01	0.02	0.00	0.00	4.56	2.75	1.24	3.48	0.00	0.00
Down syndrome cell adhesion molecule like 1	Dscaml 1	100763436	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
DNA replication and sister chromatid cohesion 1	Dscc1	103159024	33.99	27.64	18.32	28.28	27.69	23.02	141.27	140.00	118.00	124.00	156.28	157.96
Down syndrome critical region gene 3	Dscr3	100763887	44.31	43.41	52.36	48.87	45.29	48.61	2735.10	2696.60	3267.93	3023.62	2829.65	3052.63
dermatan sulfate epimerase	Dse	100775050	14.45	14.36	8.02	8.80	9.34	8.07	1635.29	1627.84	910.45	989.72	1051.55	915.98
dermatan sulfate epimerase-like	Dsel	100756462	1.44	1.60	1.67	1.97	1.97	2.11	353.19	404.44	408.65	467.04	464.71	500.05
desmoglein 1	Dsg1	100762370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
desmoglein 3	Dsg3	100761782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
desmoglein 4	Dsg4	100762072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DSN1, MIS12 kinetochore complex component	Dsn1	100754649	43.94	47.03	47.86	55.07	70.47	68.65	4043.79	4356.47	4500.08	5033.19	6328.94	6121.15
desmoplakin	Dsp	100767947	5.17	5.39	4.72	4.98	6.84	6.90	1407.43	1465.88	1296.74	1364.05	1859.87	1884.29

dentin sialophosphoprotein	Dspp	100754381	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dystonin	Dst	100773919	13.02	12.01	11.07	13.31	14.07	13.72	6895.10	6507.72	6020.39	7145.90	7663.04	7349.31
destrin (actin depolymerizing factor)	Dstn	100769161	72.25	77.64	69.10	71.21	83.06	77.57	3370.84	3613.47	3230.67	3261.20	3781.84	3556.42
dual serine/threonine and tyrosine protein kinase	Dstyk	100759895	2.12	2.07	2.21	2.28	2.53	2.65	378.25	376.08	402.44	411.42	457.46	474.81
D-tyrosyl-tRNA deacylase 1	Dtd1	100765967	29.18	27.30	25.59	22.72	19.08	20.95	783.08	756.73	680.66	589.89	525.77	536.50
D-tyrosyl-tRNA deacylase 2 (putative)	Dtd2	100752381	5.90	6.24	6.33	6.08	5.98	6.17	422.30	445.62	457.09	436.91	426.41	439.29
death domain containing 1	Dthd1	100751886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
denticleless E3 ubiquitin protein ligase homolog (Drosophila)	Dtl	100750427	23.43	23.16	27.68	29.04	29.70	31.41	2373.56	2373.60	2874.19	2996.97	3072.87	3172.27
dystrobrevin, alpha	Dtna	100761929	0.02	0.02	0.00	0.02	0.00	0.00	3.04	1.83	0.00	1.16	0.00	0.00
dystrobrevin, beta	Dtnb	100756605	12.55	12.58	11.15	10.62	8.91	9.03	907.65	915.03	817.29	749.82	634.45	629.97
dystrobrevin binding protein 1	Dtnbp1	100760065	23.30	26.74	30.66	29.32	25.35	26.05	735.23	807.97	951.44	891.21	755.54	821.57
DTW domain containing 1	Dtwd1	100761309	8.26	8.72	8.36	8.79	10.37	9.79	897.78	938.82	912.93	965.38	1106.40	1070.20
DTW domain containing 2	Dtwd2	100773422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
deltex 1, E3 ubiquitin ligase	Dtx1	100772295	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
deltex 2, E3 ubiquitin ligase	Dtx2	100764941	7.38	7.18	7.49	5.17	3.61	3.84	532.44	516.99	565.15	377.81	267.03	298.16
deltex 3, E3 ubiquitin ligase	Dtx3	100764385	18.42	17.41	19.51	16.48	12.90	13.62	1238.05	1172.16	1352.63	1129.95	900.44	943.08
deltex 3 like, E3 ubiquitin ligase	Dtx3l	100759272	2.08	2.69	2.49	2.48	2.62	2.86	194.44	244.31	226.06	221.35	228.73	255.16
deltex 4, E3 ubiquitin ligase	Dtx4	100755527	0.36	0.19	0.47	0.35	0.12	0.04	34.18	21.05	42.23	30.13	13.45	5.61
deoxythymidylate kinase (thymidylate kinase)	Dtymk	100755252	37.47	37.36	44.87	44.29	48.87	53.15	1381.60	1395.43	1683.03	1586.56	1822.61	1944.11
dual oxidase 1	Duox1	100774391	0.54	0.59	0.35	0.33	0.20	0.23	87.35	94.25	65.83	54.47	34.15	36.45
dual oxidase 2	Duox2	100764526	0.03	0.00	0.00	0.05	0.02	0.00	12.91	9.15	12.42	12.75	10.35	11.22
dual oxidase maturation factor 1	Duoxa1	100750838	0.04	0.00	0.03	0.00	0.03	0.00	2.28	0.00	1.24	1.16	1.03	0.00
dual oxidase maturation factor 2	Duoxa2	100751135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dual specificity phosphatase and pro isomerase domain containing 1	Dupd1	100763558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
dihydrouridine synthase 1-like (S. cerevisiae)	Dus1l	100770971	26.64	28.42	12.77	12.87	7.13	9.39	1608.70	1761.44	772.58	747.50	429.52	555.19
dihydrouridine synthase 2	Dus2	100750570	16.73	14.83	17.25	17.92	17.43	17.52	974.49	895.82	1030.93	1027.96	1012.22	981.40
dihydrouridine synthase 3-like (S. cerevisiae)	Dus3l	100760481	16.52	16.70	13.77	9.75	4.88	4.62	1084.62	1086.14	901.76	665.22	359.14	342.09
dihydrouridine synthase 4-like (S. cerevisiae)	Dus4l	100754261	7.95	7.37	7.35	8.02	8.35	8.07	432.94	389.80	392.50	436.91	452.29	443.97
dual specificity phosphatase 1	Dusp1	100769474	9.84	11.01	9.99	10.65	12.79	13.99	524.84	581.96	532.86	556.28	673.78	738.39
dual specificity phosphatase 10	Dusp10	100773751	11.34	11.35	13.28	11.25	11.25	12.39	633.46	622.22	732.83	625.82	623.06	698.20
dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	Dusp11	100770939	14.94	14.69	17.08	18.92	18.20	19.08	1169.69	1199.61	1368.78	1492.69	1466.58	1527.25
dual specificity phosphatase 12	Dusp12	100775069	20.90	22.67	21.54	22.50	25.21	23.87	883.34	935.16	885.61	895.85	1030.85	978.60
	Dusp13	100760949	0.47	0.46	0.57	0.25	0.03	0.24	13.67	18.30	16.15	16.22	6.21	6.54
dual specificity phosphatase 14	Dusp14	100768086	8.16	9.09	4.27	4.72	5.84	5.71	353.95	393.46	195.01	197.02	249.43	247.69
dual specificity phosphatase 15	Dusp15	100755376	13.96	15.18	11.04	11.13	8.30	9.69	499.78	560.00	409.89	404.46	292.90	337.42

dual specificity phosphatase 16	Dusp16	100774758	25.09	24.38	27.95	28.36	24.21	23.47	3513.63	3426.80	3931.20	3976.25	3353.36	3299.38
dual specificity phosphatase 18	Dusp18	100757443	6.15	5.50	6.25	6.46	6.73	6.36	240.01	204.05	245.93	265.39	258.75	269.18
dual specificity phosphatase 19	Dusp19	100757499	17.28	17.26	14.79	14.32	16.92	16.66	458.00	447.45	399.95	370.85	448.15	437.43
dual specificity phosphatase 2	Dusp2	100757670	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.03	0.00
dual specificity phosphatase 21	Dusp21	100755361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dual specificity phosphatase 22	Dusp22	100759286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dual specificity phosphatase 23	Dusp23	100771960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
dual specificity phosphatase 26 (putative)	Dusp26	100761425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dual specificity phosphatase 27 (putative)	Dusp27	100768141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dual specificity phosphatase 3	Dusp3	100761077	21.39	21.34	20.84	17.05	15.36	17.79	897.02	904.05	895.54	749.82	664.46	774.84
dual specificity phosphatase 4	Dusp4	100756233	7.50	8.02	11.60	12.93	21.61	21.74	969.17	1051.37	1533.98	1692.02	2788.25	2820.83
dual specificity phosphatase 5	Dusp5	100758694	5.09	5.20	4.18	3.90	4.68	4.92	608.39	620.39	509.26	465.89	560.96	599.12
dual specificity phosphatase 6	Dusp6	100764365	3.18	3.17	3.07	3.13	2.79	2.90	369.14	368.76	360.21	363.90	320.85	336.48
dual specificity phosphatase 7	Dusp7	100765417	8.30	8.36	7.29	7.22	5.01	5.99	777.77	786.93	685.63	666.38	466.78	565.48
dual specificity phosphatase 8	Dusp8	100768862	4.10	4.73	4.00	3.70	2.09	2.15	221.79	243.40	217.37	208.61	109.71	123.38
dual specificity phosphatase 9	Dusp9	100752633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
deoxyuridine triphosphatase	Dut	100761578	31.36	35.31	36.09	36.85	45.62	44.98	825.62	915.03	935.29	935.25	1128.14	1122.54
dishevelled segment polarity protein 1	Dvl1	100770288	28.99	27.20	29.65	24.64	19.31	19.73	1996.83	1900.52	1881.76	1329.28	918.03	981.40
dishevelled segment polarity protein 2	Dvl2	100762587	8.38	7.89	8.34	8.50	6.53	6.74	334.96	312.94	317.97	332.61	269.10	268.25
dishevelled segment polarity protein 3	Dvl3	100773535	16.27	16.35	16.50	14.94	12.88	13.69	2138.86	2157.65	2229.55	2014.20	1726.36	1817.00
decapping exoribonuclease	Dxo	100768556	7.11	6.61	10.87	8.76	5.09	5.64	217.99	200.39	320.46	256.12	148.00	169.18
DPY30 domain containing 1	Dydc1	100758376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
DPY30 domain containing 2	Dydc2	100759438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dymeclin	Dym	100764371	12.17	11.46	13.82	15.22	16.66	15.61	882.58	820.79	967.59	1045.35	1161.25	1092.63
dynein, cytoplasmic 1, heavy chain 1	Dync1h 1	100771366	46.25	45.05	48.58	49.83	46.63	48.17	19916.64	19344.72	21001.20	21277.77	19934.87	20706.67
dynein, cytoplasmic 1, intermediate chain 1	Dync1i1	100765135	0.07	0.00	0.00	0.00	0.02	0.00	4.56	0.92	0.00	0.00	1.03	0.00
dynein, cytoplasmic 1, intermediate chain 2	Dync1i2	100773761	47.59	49.91	51.11	59.04	63.17	60.46	3451.35	3653.73	3711.36	4174.43	4508.40	4298.55
dynein, cytoplasmic 1, light intermediate chain 1	Dync1li1	100768032	19.19	19.77	20.88	22.38	24.23	23.75	1183.36	1220.65	1264.44	1365.21	1474.86	1426.31
dynein, cytoplasmic 1, light intermediate chain 2	Dync1li2	100770140	26.48	26.51	28.85	29.65	30.00	29.32	2588.51	2626.15	2879.16	2932.07	2957.99	2926.45
dynein, cytoplasmic 2, heavy chain 1	Dync2h 1	100758806	2.15	2.22	2.34	2.95	3.02	2.94	931.20	974.51	1007.33	1277.13	1332.03	1260.87
dynein, cytoplasmic 2, light intermediate chain 1	Dync2li1	100760943	43.11	44.98	35.93	38.14	37.54	36.17	1712.76	1787.98	1413.49	1475.31	1445.88	1416.02
dynein, light chain, LC8-type 2	Dynll2	100762300	50.11	50.39	45.08	46.19	46.97	46.65	3060.18	3071.77	2731.35	2760.55	2788.25	2797.47
dynein, light chain, roadblock-type 1	Dynlrb1	100760283	95.65	99.72	90.28	94.69	96.01	94.83	1643.64	1675.43	1491.75	1530.93	1506.94	1482.39

dynein, light chain, roadblock-type 2	Dynlrb2	100766239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein, light chain, Tctex-type 1	Dynlt1	100761379	47.12	46.43	39.57	40.03	38.38	37.99	853.72	848.24	716.68	713.89	678.95	688.85
dynein, light chain, Tctex-type 3	Dynlt3	100761090	12.67	12.06	7.91	8.65	11.88	10.34	747.39	705.49	471.99	508.77	688.27	607.54
dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A	Dyrk1a	100764478	15.40	15.03	16.08	17.76	17.13	17.46	2253.55	2199.74	2404.68	2615.68	2506.74	2560.06
dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B	Dyrk1b	100762532	1.13	1.00	1.29	0.56	0.47	0.59	103.30	93.33	119.24	57.95	47.61	57.95
dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	Dyrk2	100771845	16.93	16.66	18.11	19.42	20.94	21.20	2397.87	2397.39	2625.77	2809.22	3000.43	3062.91
dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	Dyrk3	100761931	9.43	8.69	6.35	6.92	6.67	6.63	507.37	481.31	357.72	369.70	357.07	361.72
dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4	Dyrk4	100772985	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	1.03	0.93
dysferlin	Dysf	100756449	0.00	0.01	0.00	0.01	0.00	0.00	0.76	2.75	0.00	1.16	0.00	0.00
dystrotelin	Dytn	100753329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dyslexia susceptibility 1 candidate 1	Dyx1c1	100769043	0.05	0.04	0.00	0.00	0.07	0.02	5.32	4.58	1.24	2.32	4.14	1.87
double zinc ribbon and ankyrin repeat domains 1	Dzank1	100767139	0.38	0.46	0.35	0.29	0.38	0.49	37.22	40.26	34.78	28.97	38.29	43.93
DAZ interacting zinc finger protein 1	Dzip1	100766464	7.05	7.26	6.16	7.08	6.57	6.40	692.70	752.16	630.98	658.27	652.04	649.60
DAZ interacting zinc finger protein 1-like	Dzip1l	100768816	5.89	6.09	0.00	0.00	0.00	0.01	686.62	707.32	0.00	0.00	0.00	0.93
DAZ interacting zinc finger protein 3	Dzip3	100761551	7.64	8.48	6.29	7.59	8.07	8.00	1221.34	1302.09	998.64	1208.75	1265.79	1245.91
E2F transcription factor 1	E2f1	100758556	14.14	13.49	14.32	14.05	11.05	12.39	970.69	943.40	1007.33	964.22	764.85	828.12
E2F transcription factor 2	E2f2	100754522	1.79	1.60	1.93	1.69	1.55	1.42	216.47	194.90	238.48	203.97	186.30	172.91
E2F transcription factor 3	E2f3	100754647	16.29	16.31	15.79	16.45	16.77	17.68	2321.91	2321.44	2250.66	2349.13	2382.54	2517.07
E2F transcription factor 4, p107/p130-binding	E2f4	100765561	76.90	73.28	78.74	72.93	57.68	63.26	4286.84	4097.52	4349.79	4008.70	3242.61	3526.51
E2F transcription factor 6	E2f6	100767557	13.94	15.04	14.06	14.66	14.47	15.17	920.56	1028.50	1002.36	1048.82	1081.56	1117.86
E2F transcription factor 7	E2f7	100762445	9.48	9.77	8.77	9.03	9.07	9.16	1088.42	1142.88	1002.36	1054.62	1045.34	1067.39
E2F transcription factor 8	E2f8	100760871	4.89	4.79	4.99	4.81	5.75	5.08	524.08	511.50	539.07	521.51	609.61	546.78
ELL associated factor 1	Eaf1	100754458	36.46	35.49	27.99	28.56	28.07	27.76	2695.60	2671.90	2097.88	2116.19	2065.83	2146.94
ELL associated factor 2	Eaf2	100765712	0.75	0.67	0.16	0.31	0.21	0.05	16.71	14.64	2.48	5.79	4.14	0.93
E2F-associated phosphoprotein	Eapp	100763566	36.47	37.20	35.58	42.68	43.43	42.51	1222.86	1257.26	1213.52	1425.47	1463.47	1415.09
eosinophil-associated, ribonuclease A family, member 10	Ear10	100689288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eosinophil-associated, ribonuclease A family, member 11	Ear11	100689289	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ear7 pseudogene	Ear30	100689484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eosinophil-associated, ribonuclease A family, member 7	Ear7	100689291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamyl-tRNA synthetase 2, mitochondrial	Ears2	100765390	3.88	3.81	4.66	4.04	3.97	4.24	242.29	247.06	319.22	253.80	269.10	292.55
estrogen receptor binding site associated, antigen, 9	Ebag9	100768914	7.11	7.81	8.00	8.22	8.51	7.84	593.96	632.29	680.66	679.13	697.58	651.46
early B-cell factor 1	Ebf1	100763962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
early B-cell factor 2	Ebf2	100759162	14.26	13.93	16.16	17.49	19.51	17.93	2056.83	2016.73	2333.88	2494.00	2743.75	2546.04
early B-cell factor 3	Ebf3	100767609	2.54	2.31	3.15	3.35	2.97	2.97	309.13	283.66	386.29	405.62	363.28	356.11
early B-cell factor 4	Ebf4	100750951	1.64	1.58	2.20	2.07	1.76	2.05	153.43	145.49	198.73	185.43	141.79	172.91
Epstein-Barr virus induced 3	Ebi3	100754884	0.29	0.51	0.21	0.10	0.04	0.04	9.87	19.22	11.18	5.79	1.03	0.93

endogenous Bornavirus-like nucleoprotein 2	Ebln2	103159492	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EBNA1 binding protein 2	Ebna1bp2	100769390	141.11	142.25	151.47	150.64	134.86	136.51	4946.88	4991.51	5283.84	5145.60	4688.49	4721.02
emopamil binding protein (sterol isomerase)	Ebp	100765639	28.91	28.76	33.10	33.19	37.82	36.51	824.10	827.19	957.65	941.04	1069.14	1031.88
emopamil binding protein-like	Ebpl	100762126	9.03	9.16	8.78	8.97	9.06	8.04	240.77	245.23	234.75	237.58	237.01	214.04
ecdysoneless homolog (Drosophila)	Ecd	100761389	36.41	38.63	46.23	47.35	48.34	48.28	2434.32	2607.85	3118.88	3132.56	3240.54	3193.77
endothelin converting enzyme 1	Ece1	100765950	0.17	0.22	0.06	0.10	0.14	0.13	23.55	27.45	7.45	13.91	16.56	15.89
endothelin converting enzyme 2	Ece2	100771038	39.15	33.80	37.52	30.38	21.94	24.37	1146.90	1036.73	1111.67	951.47	752.44	834.66
endothelin converting enzyme-like 1	Ecel1	100763545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
enoyl CoA hydratase 1, peroxisomal	Ech1	100768055	18.25	16.10	16.31	14.57	10.82	13.50	531.68	503.27	490.62	397.51	301.18	365.46
enoyl CoA hydratase domain containing 1	Echdc1	100764713	27.30	26.47	11.16	13.43	14.03	11.44	850.68	840.92	360.21	400.99	416.06	357.04
enoyl CoA hydratase domain containing 2	Echdc2	100757273	0.17	0.09	0.00	0.00	0.00	0.00	13.67	7.32	0.00	0.00	0.00	0.00
enoyl CoA hydratase domain containing 3	Echdc3	100770967	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
enoyl CoA hydratase, short chain, 1, mitochondrial	Echs1	100754654	22.72	23.03	29.34	25.60	25.89	27.41	748.91	772.29	991.19	892.37	904.58	965.51
enoyl-CoA delta isomerase 1	Eci1	100774222	17.04	15.96	14.82	14.45	9.72	12.24	286.35	287.32	276.99	254.96	145.93	194.41
enoyl-CoA delta isomerase 2	Eci2	100763456	25.19	24.37	23.75	26.34	29.55	28.36	1063.35	1028.50	1012.30	1084.75	1170.57	1158.99
extracellular matrix protein 1	Ecm1	100763376	6.08	5.85	4.04	3.73	4.13	3.98	362.30	345.88	233.51	216.72	241.15	227.12
extracellular matrix protein 2, female organ and adipocyte specific	Ecm2	100754893	2.29	2.13	2.10	2.31	2.03	2.14	162.54	148.24	152.78	166.88	143.86	157.96
ECSIT signalling integrator	Ecsit	100753611	81.17	78.88	82.98	76.10	55.99	64.97	3512.87	3422.23	3578.45	3193.98	2400.13	2745.12
epithelial cell transforming 2	Ect2	100754674	29.36	29.57	34.56	38.93	43.36	40.69	3492.36	3599.74	4193.29	4680.88	5172.86	4790.18
epithelial cell transforming 2 like	Ect2l	100770493	0.05	0.03	0.06	0.01	0.00	0.01	6.84	4.58	4.97	2.32	1.03	2.80
ectodysplasin A	Eda	100768945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ectodysplasin A2 receptor	Eda2r	100752833	0.04	0.04	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	0.00	0.00
ectodysplasin A receptor	Edar	100763209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
EDAR-associated death domain	Edaradd	100765451	13.49	13.21	18.29	19.38	13.72	14.32	1626.93	1606.80	2248.18	2321.32	1596.98	1716.99
enhancer of mRNA decapping 3	Edc3	100751562	18.70	18.55	22.39	22.64	19.95	21.44	1684.66	1677.26	2051.93	2032.75	1785.35	1935.70
enhancer of mRNA decapping 4	Edc4	100752917	34.57	33.02	36.11	32.12	27.22	30.60	5096.51	4963.14	5425.44	4779.39	4131.67	4547.17
epididymal protein 3B	Eddm3b	100758879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
ER degradation enhancer, mannosidase alpha-like 1	Edem1	100689456	15.12	15.40	18.52	18.99	20.93	20.74	707.13	710.98	881.88	895.85	960.47	979.53
ER degradation enhancer, mannosidase alpha-like 2	Edem2	100753801	33.80	34.38	45.30	41.60	38.32	41.11	1897.33	1958.17	2594.72	2321.32	2150.70	2274.99
ER degradation enhancer, mannosidase alpha-like 3	Edem3	100755846	34.45	35.46	26.51	28.75	31.20	30.15	6314.81	6584.58	4923.63	5331.03	5730.72	5593.06
endothelial differentiation-related factor 1	Edf1	100763269	193.86	187.63	174.01	131.79	82.07	91.40	2590.79	2550.20	2352.51	1760.40	1173.67	1253.39
EGF-like repeats and discoidin I-like domains 3	Edil3	100766118	0.04	0.00	0.00	0.03	0.00	0.02	1.52	0.00	0.00	1.16	0.00	0.93
endothelin 1	Edn1	100768493	0.01	0.03	0.00	0.02	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.00
endothelin 2	Edn2	100754793	0.07	0.00	0.00	0.00	0.00	0.00	3.04	1.83	0.00	0.00	0.00	0.00
endothelin 3	Edn3	100772506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endothelin receptor type A	Ednra	100774176	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

endothelin receptor type B	Ednrb	100762726	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
erythroid differentiation regulatory factor 1	Edrf1	100756396	5.88	6.25	7.46	8.55	8.44	8.67	805.11	873.86	1019.75	1165.87	1140.55	1185.16
early endosome antigen 1	Eea1	100758601	15.24	14.55	12.25	15.78	18.08	16.69	1396.79	1245.36	1034.66	1328.12	1437.60	1339.38
embryonic ectoderm development	Eed	100764182	24.42	26.56	24.33	25.80	28.32	28.45	1006.39	1077.91	973.80	1054.62	1138.48	1151.51
eukaryotic translation elongation factor 1 alpha 1	Eef1a1	100689276	4685.36	4733.24	4848.25	5045.58	5173.42	5435.99	221586.45	227208.32	232005.67	239840.79	248031.36	259435.33
eukaryotic translation elongation factor 1 alpha 2	Eef1a2	100760295	4.12	3.88	5.14	4.55	4.37	4.43	166.34	154.64	211.15	180.79	176.98	191.61
eukaryotic translation elongation factor 1 beta 2	Eef1b2	100753925	595.13	595.09	741.24	676.03	663.31	660.79	17228.63	17360.02	21485.62	19234.59	18916.44	18643.86
eukaryotic translation elongation factor 1 epsilon 1	Eef1e1	100689310	92.03	95.58	96.32	95.72	84.34	94.27	2066.71	2178.69	2260.60	2190.36	1988.21	2113.29
eukaryotic translation elongation factor 1 gamma	Eef1g	100753545	1029.72	1069.17	1186.52	1079.75	929.39	1017.38	42596.48	44277.56	49032.62	44222.06	38330.72	41918.07
eukaryotic translation elongation factor 2	Eef2	100689051	928.09	904.36	957.32	782.35	551.27	627.20	77966.70	76736.54	81915.63	66224.16	46672.71	52853.70
eukaryotic elongation factor-2 kinase	Eef2k	100765385	13.51	13.47	14.59	14.60	14.16	14.53	1389.96	1441.18	1526.52	1482.26	1377.57	1465.56
eukaryotic elongation factor, selenocysteine-tRNA-specific	Eefsec	100761746	14.32	13.48	19.02	18.29	14.77	14.69	786.12	727.45	1032.17	930.61	757.61	773.91
endonuclease/exonuclease/phosphatase family domain containing 1	Eepd1	100772363	3.49	3.39	1.04	0.83	0.89	0.79	428.38	411.77	125.45	103.14	107.64	95.34
EF-hand calcium binding domain 1	Efcab1	100768257	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
EF-hand calcium binding domain 11	Efcab11	100769192	14.68	14.42	15.13	14.04	14.98	15.30	292.42	295.56	293.13	283.94	283.59	304.70
EF-hand calcium binding domain 12	Efcab12	100772176	0.00	0.02	0.03	0.00	0.02	0.08	4.56	2.75	1.24	3.48	3.10	3.74
EF-hand calcium binding domain 13	Efcab13	100750566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EF-hand calcium binding domain 14	Efcab14	100769544	13.80	13.96	14.96	15.69	17.56	17.23	2069.74	2121.05	2265.57	2364.20	2606.10	2577.82
EF-hand calcium binding domain 2	Efcab2	100768231	1.46	1.10	0.75	0.99	0.76	0.57	27.34	26.54	17.39	16.22	13.45	14.95
EF-hand calcium binding domain 3	Efcab3	100751732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EF-hand calcium binding domain 4A	Efcab4a	100754254	1.88	2.01	2.55	2.44	2.13	2.08	306.85	323.92	382.56	332.61	249.43	271.05
EF-hand calcium binding domain 4B	Efcab4b	100763551	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
EF-hand calcium binding domain 5	Efcab5	100757616	0.01	0.01	0.00	0.00	0.00	0.00	3.04	1.83	0.00	1.16	0.00	0.00
EF-hand calcium binding domain 6	Efcab6	100770176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EF-hand calcium binding domain 7	Efcab7	100753483	9.86	9.46	8.79	10.31	12.41	10.47	642.57	612.16	580.05	671.01	795.90	665.48
EF-hand calcium binding domain 9	Efcab9	100772537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EGF containing fibulin-like extracellular matrix protein 1	Efemp1	100750809	43.00	42.48	31.80	36.97	16.95	17.09	2039.36	2027.71	1495.47	1674.64	782.45	783.25
EGF containing fibulin-like extracellular matrix protein 2	Efemp2	100736553	35.25	32.43	42.60	41.47	28.77	32.97	1706.68	1582.09	2066.83	1940.03	1362.04	1536.60
EF-hand domain family, member B	Efhb	100772930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EF-hand domain (C-terminal) containing 1	Efhc1	100774119	0.06	0.05	0.02	0.04	0.09	0.00	4.56	3.66	2.48	3.48	5.17	0.00
EF-hand domain (C-terminal) containing 2	Efhc2	100770173	0.02	0.03	0.00	0.04	0.00	0.00	3.04	2.75	0.00	2.32	1.03	0.00
EF-hand domain family, member D1	Efhd1	100765009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EF-hand domain family, member D2	Efhd2	100752661	89.55	90.10	81.67	73.75	62.41	66.69	4652.94	4715.17	4306.32	3844.14	3240.54	3497.53

ephrin-A1	Efna1	100758074	5.57	5.00	5.86	6.09	4.95	5.42	221.03	208.63	236.00	239.90	189.40	205.63
ephrin-A2	Efna2	100755670	1.27	1.94	1.27	0.69	1.14	0.78	56.97	85.10	55.89	30.13	49.68	35.52
ephrin-A3	Efna3	100773125	7.74	8.60	7.98	7.03	5.67	5.26	335.72	381.57	339.09	297.84	244.26	230.86
ephrin-A4	Efna4	100773413	3.23	3.23	4.77	4.68	2.87	3.63	107.85	105.23	150.29	155.30	101.43	112.16
ephrin-A5	Efna5	100756587	0.02	0.05	0.00	0.01	0.00	0.00	2.28	6.41	0.00	1.16	0.00	0.00
ephrin-B1	Efnb1	100755216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ephrin-B2	Efnb2	100753573	0.99	1.13	1.30	1.32	1.11	1.19	131.40	148.24	180.10	186.59	161.46	170.11
ephrin-B3	Efnb3	100756800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.93
EFR3 homolog B (S. cerevisiae)	Efr3b	100770780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
embryonal Fyn-associated substrate	Efs	100771792	22.82	20.81	21.87	17.94	10.12	11.63	1962.65	1798.96	1927.72	1559.91	881.81	1028.14
elongation factor Tu GTP binding domain containing 1	Eftud1	100763625	31.75	31.63	36.03	36.60	34.51	36.76	3420.96	3472.55	3924.99	3918.31	3722.85	3937.76
elongation factor Tu GTP binding domain containing 2	Eftud2	100757897	111.41	108.32	79.56	76.24	70.06	73.95	11271.56	11317.13	8199.02	7774.03	7220.06	7495.12
epidermal growth factor	Egf	100763146	0.08	0.02	0.02	0.01	0.05	0.02	14.43	6.41	3.73	6.95	7.24	6.54
EGF-like-domain, multiple 6	Egfl6	100769506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EGF-like-domain, multiple 7	Egfl7	100753992	0.03	0.00	0.00	0.00	0.00	0.00	3.04	0.92	0.00	2.32	0.00	1.87
EGF-like-domain, multiple 8	Egfl8	100766819	0.20	0.14	0.26	0.16	0.09	0.16	4.56	5.49	6.21	4.64	3.10	2.80
EGF-like, fibronectin type III and laminin G domains	Egflam	100773318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
epidermal growth factor receptor	Egfr	100774580	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
egl-9 family hypoxia-inducible factor 1	Egln1	100772704	23.62	24.56	23.90	24.36	23.44	22.40	785.36	841.83	806.11	796.18	794.87	770.17
egl-9 family hypoxia-inducible factor 2	Egln2	100771495	3.99	4.68	4.06	2.50	1.45	1.56	173.93	203.14	192.52	115.89	72.45	71.03
early growth response 1	Egr1	100755852	11.36	13.41	11.49	10.25	11.42	10.73	821.06	971.77	840.89	746.34	819.71	776.71
early growth response 2	Egr2	100770422	0.49	0.59	0.47	0.53	0.37	0.28	33.42	39.35	31.05	34.77	24.84	20.56
early growth response 3	Egr3	100751698	0.59	0.78	0.19	0.09	0.45	0.15	17.47	25.62	6.21	2.32	12.42	3.74
EH domain binding protein 1	Ehbp1	100765232	8.98	8.46	9.75	11.04	12.14	11.41	1269.19	1218.82	1399.83	1594.67	1718.08	1600.15
EH-domain containing 1	Ehd1	100761397	40.74	39.89	38.83	32.78	31.55	32.99	3602.49	3530.20	3453.00	2908.89	2770.66	2939.54
EH-domain containing 2	Ehd2	100764187	6.09	5.19	4.79	3.41	2.94	3.31	273.43	244.31	202.46	156.45	136.62	147.68
EH-domain containing 3	Ehd3	100766335	3.71	3.50	3.22	3.16	3.30	3.80	377.49	359.61	335.36	321.02	335.34	388.82
EH-domain containing 4	Ehd4	100771177	29.80	31.15	34.19	33.53	31.60	31.03	2776.88	2891.51	3199.62	3105.91	2918.66	2890.93
ets homologous factor	Ehf	100774359	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase	Ehhadh	100754698	0.13	0.09	0.11	0.07	0.31	0.11	11.39	9.15	8.69	5.79	24.84	8.41
euchromatic histone-lysine N-methyltransferase 1	Ehmt1	100754544	12.91	12.74	14.20	13.55	12.53	12.40	2192.03	2177.78	2403.44	2292.34	2119.65	2107.68
euchromatic histone-lysine N-methyltransferase 2	Ehmt2	100769417	56.08	54.46	64.64	46.27	30.22	32.48	6794.08	6641.31	7681.07	5567.45	3712.50	3988.24
etoposide induced 2.4	Ei24	100753150	11.99	11.74	11.90	13.36	14.77	17.52	770.17	779.61	781.27	854.12	958.40	1122.54
EP300 interacting inhibitor of differentiation 1	Eid1	100760502	91.71	99.62	107.40	102.63	106.25	111.39	4387.10	4770.98	5177.02	4914.98	5057.98	5339.77
EP300 interacting inhibitor of differentiation 3	Eid3	100771887	0.97	0.95	0.72	0.94	1.08	1.03	156.47	154.64	124.21	154.14	178.02	171.98
eukaryotic translation initiation factor 1	Eif1	100773613	978.27	959.76	750.96	717.84	746.24	763.58	18021.59	17895.31	13877.84	13485.19	13935.06	14087.34
eukaryotic translation initiation factor 1A domain containing	Eif1ad	100765365	154.45	150.69	150.33	147.48	135.66	143.23	5897.06	5833.34	5779.43	5630.03	5186.32	5552.87

eukaryotic translation initiation factor 1A, X-linked	Eif1ax	100750661	126.82	133.78	117.73	118.23	115.19	112.37	6224.42	6771.25	5893.70	5806.19	5737.96	5508.94
eukaryotic translation initiation factor 1B	Eif1b	100774503	112.30	106.51	122.76	116.62	113.78	118.04	1879.10	1797.13	2002.24	1891.36	1845.38	1891.77
eukaryotic translation initiation factor 2A, 65kDa	Eif2a	100767762	41.89	43.34	42.50	47.96	48.38	42.42	2821.69	2959.22	2858.04	3176.60	3195.00	2815.23
eukaryotic translation initiation factor 2-alpha kinase 1	Eif2ak1	100764727	49.54	48.45	49.57	54.68	58.56	58.70	3834.91	3810.20	3931.20	4240.49	4573.60	4571.47
eukaryotic translation initiation factor 2-alpha kinase 2	Eif2ak2	100757909	3.28	3.79	4.29	4.85	5.26	4.86	156.47	166.54	177.62	194.70	218.38	209.37
eukaryotic translation initiation factor 2-alpha kinase 3	Eif2ak3	100765343	9.15	8.93	10.28	11.38	11.82	11.27	1143.87	1110.85	1280.59	1398.82	1468.65	1409.48
eukaryotic translation initiation factor 2 alpha kinase 4	Eif2ak4	100763206	6.68	6.26	7.77	8.05	8.25	8.40	1319.32	1298.43	1582.42	1619.01	1706.69	1674.93
eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa	Eif2b1	100770460	37.39	37.23	44.64	45.70	48.88	48.67	1601.87	1616.86	1968.71	2035.06	2146.56	2144.13
eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa	Eif2b2	100759048	70.49	71.82	66.61	69.91	63.53	67.30	2274.82	2323.27	2158.75	2226.29	2032.71	2160.02
eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa	Eif2b3	100753584	22.82	23.95	24.51	26.17	29.31	22.73	986.64	1053.20	1061.98	1113.72	1251.30	966.45
eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa	Eif2b4	100766948	31.91	30.14	37.34	31.76	25.47	28.56	1664.15	1623.27	1968.71	1658.41	1391.02	1491.73
eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa	Eif2b5	100773826	39.90	38.10	44.69	45.18	45.21	48.68	2962.20	2887.85	3382.20	3386.36	3356.46	3618.11
eukaryotic translation initiation factor 2D	Eif2d	100759038	60.49	56.97	62.79	65.45	58.03	61.14	3597.94	3446.93	3835.56	3976.25	3537.58	3641.47
eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	Eif2s1	100761915	200.14	210.00	183.38	200.57	205.70	192.65	8144.54	8608.64	7502.20	8033.63	8031.49	7609.15
eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	Eif2s2	100750388	377.99	387.56	392.69	401.58	378.38	360.09	15025.96	15592.17	15851.51	15973.39	15160.48	14239.69
eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa	Eif2s3	100769010	106.64	115.06	108.60	117.90	125.45	120.68	8920.03	9548.37	9094.56	9797.51	10271.20	9974.79
eukaryotic translation initiation factor 3, subunit A	Eif3a	100752118	100.78	99.08	93.97	105.77	103.92	99.44	14429.73	14334.92	13731.27	15236.32	14985.57	14402.33
eukaryotic translation initiation factor 3, subunit B	Eif3b	100762979	192.49	188.59	196.01	192.55	162.88	176.81	16876.20	17018.71	17637.63	17128.84	14536.38	15484.67
eukaryotic translation initiation factor 3, subunit D	Eif3d	100769541	237.16	232.83	250.48	248.12	205.43	222.21	13538.03	13565.37	14474.04	14092.47	11642.56	12404.94
eukaryotic translation initiation factor 3, subunit E	Eif3e	100771190	110.46	110.97	134.57	140.92	133.69	130.34	4361.27	4428.76	5375.75	5474.74	5207.02	4996.74
eukaryotic translation initiation factor 3, subunit F	Eif3f	100769028	151.84	140.51	161.40	171.08	180.35	181.07	3499.96	3392.03	3839.29	3944.96	4163.75	4142.46
eukaryotic translation initiation factor 3, subunit G	Eif3g	100763004	221.23	217.68	217.67	189.62	137.23	144.41	6658.12	6560.79	6483.69	5531.52	4092.34	4321.91
eukaryotic translation initiation factor 3, subunit H	Eif3h	100751998	145.49	139.61	167.21	151.66	118.25	122.10	4640.78	4446.15	5282.60	4764.32	3775.63	3906.92
eukaryotic translation initiation factor 3, subunit I	Eif3i	100753319	516.69	496.56	554.50	555.12	519.32	530.14	16409.09	16119.23	17900.96	17440.59	16390.04	16393.17
eukaryotic translation initiation factor 3, subunit J	Eif3j	100765691	96.61	95.31	87.15	90.66	95.21	88.43	3253.11	3284.97	3005.85	3044.48	3196.04	2903.08
eukaryotic translation initiation factor 3, subunit K	Eif3k	100766600	201.56	194.48	223.07	220.21	211.00	221.64	3654.90	3578.70	4016.91	3948.44	3743.55	3865.79
eukaryotic translation initiation factor 3, subunit L	Eif3l	100753359	116.08	116.77	125.08	128.34	125.85	126.82	5942.63	5991.64	6436.49	6494.59	6329.98	6447.35

eukaryotic translation initiation factor 3, subunit M	Eif3m	100768213	281.15	280.84	281.80	298.36	301.86	284.17	9958.32	10014.13	9926.76	10264.55	10505.11	9835.53
eukaryotic translation initiation factor 4A1	Eif4a1	100762873	413.03	412.12	418.84	442.84	426.27	442.39	20329.83	20703.55	21157.71	22164.34	21208.94	21766.59
eukaryotic translation initiation factor 4A2	Eif4a2	100763323	181.44	175.42	202.47	219.54	253.14	229.53	8415.69	8367.98	9652.26	10437.23	12076.22	10838.43
eukaryotic translation initiation factor 4A3	Eif4a3	100757133	141.60	135.68	151.42	159.09	134.45	148.29	5062.33	4952.16	5499.96	5682.18	4841.67	5234.15
eukaryotic translation initiation factor 4B	Eif4b	100758911	89.80	83.47	77.26	85.10	86.86	87.87	10178.59	9589.55	8821.30	9711.75	9846.86	9932.73
eukaryotic translation initiation factor 4E	Eif4e	100773768	178.08	180.26	149.85	157.64	163.61	163.19	5599.32	5760.14	4759.68	5016.96	5153.20	5164.98
eukaryotic translation initiation factor 4E family member 1B	Eif4e1b	100766778	0.00	0.00	0.00	0.00	0.04	0.00	0.76	0.00	1.24	1.16	4.14	0.00
eukaryotic translation initiation factor 4E family member 2	Eif4e2	100764716	96.34	92.03	101.02	95.85	94.73	95.75	2341.66	2218.04	2463.06	2268.01	2229.36	2257.23
eukaryotic translation initiation factor 4E family member 3	Eif4e3	100759947	17.43	17.89	19.21	20.29	25.24	22.85	751.18	818.96	971.31	978.13	1191.27	1126.28
eukaryotic translation initiation factor 4E binding protein 1	Eif4ebp 1	100769654	379.59	366.17	380.25	343.77	295.16	316.52	12024.27	11662.10	12112.83	10820.83	9317.98	9985.08
eukaryotic translation initiation factor 4E binding protein 2	Eif4ebp 2	100768613	35.78	36.29	51.82	51.46	53.49	56.47	5882.63	5985.23	8591.51	8487.93	8752.88	9334.55
eukaryotic translation initiation factor 4E binding protein 3	Eif4ebp 3	100752954	2.23	2.00	2.20	2.35	2.02	1.86	129.12	111.63	134.15	151.82	126.27	129.92
eukaryotic translation initiation factor 4E nuclear import factor 1	Eif4enif 1	100762835	23.34	23.65	25.37	25.29	23.84	24.07	2391.03	2429.41	2598.45	2584.39	2415.66	2460.99
eukaryotic translation initiation factor 4 gamma, 1	Eif4g1	100770567	182.96	182.24	164.43	151.44	130.46	139.52	30674.75	30904.34	28083.58	25485.81	21733.68	23129.34
eukaryotic translation initiation factor 4 gamma, 2	Eif4g2	100758677	455.64	473.31	450.79	495.99	512.27	499.21	48932.55	51227.24	48698.50	52944.10	54590.35	53325.71
eukaryotic translation initiation factor 4 gamma, 3	Eif4g3	100765660	21.86	21.76	23.82	26.33	23.83	24.55	3591.86	3622.62	3953.56	4257.87	3889.48	3960.20
eukaryotic translation initiation factor 4H	Eif4h	100770352	112.16	107.49	103.65	93.35	78.06	83.82	7447.28	7231.51	6992.95	6152.71	5128.36	5482.77
eukaryotic translation initiation factor 5	Eif5	100756911	111.81	116.62	106.20	119.51	123.38	117.70	8815.21	9236.35	8550.53	9622.51	9870.66	9517.74
eukaryotic translation initiation factor 5A	Eif5a	100766364	1035.08	987.41	1046.42	947.22	770.43	914.70	33640.75	32437.94	34014.55	30294.17	24936.96	29327.13
eukaryotic translation initiation factor 5A2	Eif5a2	100775097	19.94	20.02	13.52	15.96	19.40	17.85	2861.94	2871.38	1961.26	2295.82	2762.38	2571.28
eukaryotic translation initiation factor 5B	Eif5b	100758365	33.59	30.94	28.20	34.68	32.84	30.02	4513.94	4343.66	3941.14	4752.73	4467.00	4048.99
eukaryotic translation initiation factor 6	Eif6	100689224	322.65	312.45	279.40	240.07	188.28	221.98	10284.92	10097.39	9333.04	7891.09	6183.01	7191.35
elaC ribonuclease Z 1	Elac1	100771025	1.60	1.70	1.46	1.71	2.20	2.12	155.71	165.62	137.87	170.36	217.35	201.89
elaC ribonuclease Z 2	Elac2	100772420	15.79	14.55	13.83	14.11	12.93	14.28	1600.35	1516.21	1463.18	1471.83	1341.34	1454.35
elastase, neutrophil expressed	Elane	100752732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELAV like RNA binding protein 1	Elavl1	100754131	26.07	26.23	28.45	28.17	27.96	30.03	4295.95	4340.00	4732.35	4655.38	4590.16	4946.27
ELAV like neuron-specific RNA binding protein 2	Elavl2	100771799	6.06	5.70	4.01	4.97	5.53	5.14	695.74	662.48	473.24	572.51	637.55	601.93
ELAV like neuron-specific RNA binding protein 3	Elavl3	100768802	0.03	0.00	0.05	0.00	0.04	0.00	1.52	0.00	2.48	0.00	1.03	0.93
ELAV like neuron-specific RNA binding protein 4	Elavl4	100773765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

E74-like factor 1 (ets domain transcription factor)	Elf1	100751907	19.86	20.29	19.44	23.11	22.46	20.41	1279.06	1326.80	1290.53	1499.64	1440.70	1355.27
E74-like factor 2 (ets domain transcription factor)	Elf2	100762906	26.82	27.90	31.97	32.76	33.03	33.02	2348.50	2425.75	2772.34	2855.58	2878.30	2857.29
E74-like factor 3 (ets domain transcription factor, epithelial-specific)	Elf3	100754961	0.03	0.03	0.04	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	2.80
E74-like factor 4 (ets domain transcription factor)	Elf4	100771659	17.22	17.45	19.03	20.38	18.07	17.89	3025.24	3059.87	3361.09	3577.59	3141.18	3165.73
E74-like factor 5 (ets domain transcription factor)	Elf5	100774069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
extracellular leucine-rich repeat and fibronectin type III domain containing 1	Elfn1	100770773	0.05	0.07	0.00	0.00	0.01	0.00	3.80	5.49	0.00	1.16	1.03	0.00
extracellular leucine-rich repeat and fibronectin type III domain containing 2	Elfn2	100766646	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ELK1, member of ETS oncogene family	Elk1	100763890	18.32	17.28	19.50	17.39	15.91	15.38	1393.75	1315.82	1483.05	1325.80	1198.51	1189.83
ELK3, ETS-domain protein (SRF accessory protein 2)	Elk3	100689475	95.65	93.38	88.34	86.44	79.58	80.42	5188.41	5095.82	4798.18	4638.00	4265.18	4360.23
ELK4, ETS-domain protein (SRF accessory protein 1)	Elk4	100755459	6.38	6.78	6.85	7.83	7.83	7.78	459.52	479.48	498.08	563.24	571.31	564.54
elongation factor RNA polymerase II	Ell	100767546	6.29	5.65	4.92	3.86	3.08	3.35	651.68	615.82	529.13	414.89	338.44	358.91
elongation factor, RNA polymerase II, 2	Ell2	100762315	8.68	9.51	8.43	8.30	9.46	8.94	947.90	1043.14	921.63	907.43	1018.43	983.27
elongation factor RNA polymerase II-like 3	Ell3	100754376	1.05	0.96	0.88	1.11	1.27	0.83	65.32	60.39	48.44	59.10	69.34	59.82
engulfment and cell motility 1	Elmo1	100759062	4.97	4.81	5.31	5.49	6.12	6.54	467.88	459.35	494.35	515.72	581.66	611.27
engulfment and cell motility 2	Elmo2	100769563	14.74	15.72	15.86	16.24	19.28	20.20	1513.76	1610.46	1658.19	1676.96	1984.07	2057.21
engulfment and cell motility 3	Elmo3	100765847	0.36	0.39	0.71	0.76	0.63	0.61	53.17	64.05	111.79	106.62	96.25	90.66
ELMO/CED-12 domain containing 1	Elmod1	100769312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELMO/CED-12 domain containing 2	Elmod2	100773262	5.53	5.88	4.96	6.16	7.31	6.29	648.65	687.19	594.96	705.78	825.92	729.04
ELMO/CED-12 domain containing 3	Elmod3	100775058	11.57	12.37	14.04	14.82	15.07	16.44	741.31	798.82	914.18	950.31	960.47	1035.61
ELM2 and Myb/SANT-like domain containing 1	Elmsan 1	100774891	8.20	7.85	8.18	6.86	6.01	5.92	1592.75	1548.24	1623.41	1368.68	1194.37	1217.87
elongation factor 1 homolog (S. cerevisiae)	Elof1	100753010	75.04	69.56	85.45	85.81	71.18	77.51	1782.64	1674.51	2017.15	1985.23	1680.82	1828.21
ELOVL fatty acid elongase 1	Elovl1	100767465	39.22	36.22	41.70	43.12	42.39	41.04	1364.89	1226.14	1414.74	1459.08	1445.88	1401.07
ELOVL fatty acid elongase 2	Elovl2	100764278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELOVL fatty acid elongase 3	Elovl3	100774317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELOVL fatty acid elongase 4	Elovl4	100774858	5.04	5.41	1.16	1.12	1.07	1.29	259.76	273.60	59.62	59.10	57.96	66.36
ELOVL fatty acid elongase 5	Elovl5	100753555	92.98	94.75	95.91	98.39	109.77	111.45	4188.86	4290.59	4424.31	4446.78	5033.14	5080.86
ELOVL fatty acid elongase 7	Elovl7	100754940	5.87	6.05	8.30	8.56	10.23	10.42	571.17	576.47	801.15	813.56	969.78	1001.97
elongator acetyltransferase complex subunit 2	Elp2	100764459	57.30	59.89	61.30	62.85	63.77	65.45	5325.89	5621.05	5718.57	5796.92	5874.58	6045.44
elongator acetyltransferase complex subunit 3	Elp3	100771722	66.76	67.97	67.60	65.48	63.51	62.51	5518.05	5603.67	5580.70	5350.73	5202.88	5150.03
elongator acetyltransferase complex subunit 4	Elp4	100766660	11.59	10.96	11.98	12.16	13.07	12.70	790.68	756.73	838.41	818.20	906.65	897.28

elongator acetyltransferase complex subunit 5	Elp5	100761708	51.57	52.47	60.43	62.51	60.99	61.19	2021.89	2109.15	2413.37	2449.96	2391.85	2391.82
elongator acetyltransferase complex subunit 6	Elp6	100764169	25.74	23.26	24.39	22.10	15.56	18.03	998.03	904.05	936.53	832.10	602.36	690.72
EGF, latrophilin and seven transmembrane domain containing 1	Eltd1	100756599	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
embigin	Emb	100752805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ER membrane protein complex subunit 1	Emc1	100764102	103.83	101.35	119.92	122.54	110.56	116.40	7462.47	7454.78	8943.03	8832.13	8213.65	8616.72
ER membrane protein complex subunit 10	Emc10	100758503	80.10	73.07	78.43	57.97	42.91	49.19	3925.30	3640.00	3956.05	2864.85	2197.28	2435.75
ER membrane protein complex subunit 2	Emc2	100769760	29.35	28.27	29.44	33.20	30.47	29.76	1212.22	1203.27	1259.48	1377.96	1309.26	1231.89
ER membrane protein complex subunit 3	Emc3	100757477	48.13	47.92	48.62	49.32	51.12	53.02	2665.22	2656.34	2728.86	2753.59	2836.90	2943.27
ER membrane protein complex subunit 4	Emc4	100772555	85.25	83.82	91.21	92.47	95.07	99.71	2305.20	2272.03	2460.57	2449.96	2535.72	2636.70
ER membrane protein complex subunit 7	Emc7	100773137	84.62	83.26	78.01	82.69	87.91	86.91	2365.96	2338.83	2192.28	2277.28	2437.39	2390.89
ER membrane protein complex subunit 8	Emc8	100770955	19.33	20.28	22.89	24.90	21.00	23.10	716.25	733.86	858.28	954.95	780.38	878.59
ER membrane protein complex subunit 9	Emc9	100761448	6.66	5.80	7.26	5.22	3.98	3.89	160.26	140.00	177.62	118.21	96.25	94.40
emerin	Emd	100760344	50.87	49.50	63.62	58.97	64.68	64.23	1681.62	1624.18	2092.92	1922.65	2101.02	2091.79
essential meiotic structure-specific endonuclease 1	Eme1	100759039	4.22	4.62	2.10	2.60	2.96	3.36	228.62	264.44	105.58	142.55	149.04	159.83
essential meiotic structure-specific endonuclease subunit 2	Eme2	100765424	2.10	2.08	2.13	1.10	0.95	1.07	113.93	117.12	141.60	92.71	78.66	86.92
EMG1 N1-specific pseudouridine methyltransferase	Emg1	100759485	54.39	51.98	54.05	49.84	42.89	46.66	1768.97	1723.92	1756.31	1667.69	1457.26	1571.18
EMI domain containing 1	Emid1	100751943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elastin microfibril interfacer 1	Emilin1	100763067	5.70	5.49	4.57	2.64	1.68	1.67	645.61	615.82	526.64	305.95	187.33	194.41
elastin microfibril interfacer 2	Emilin2	100770473	0.24	0.19	0.14	0.22	0.17	0.22	49.37	38.43	29.81	41.72	34.15	40.19
elastin microfibril interfacer 3	Emilin3	100771706	0.07	0.06	0.04	0.06	0.03	0.05	10.63	7.32	6.21	10.43	4.14	5.61
echinoderm microtubule associated protein like 1	Eml1	100770154	0.03	0.03	0.00	0.00	0.01	0.00	3.04	2.75	0.00	0.00	1.03	0.00
echinoderm microtubule associated protein like 2	Eml2	100756651	63.69	60.68	63.81	54.11	40.80	44.20	3619.20	3487.19	3661.67	3046.80	2290.42	2463.79
echinoderm microtubule associated protein like 3	Eml3	100755884	27.25	27.82	37.58	33.13	31.21	31.93	2466.22	2476.08	3371.02	2958.72	2771.69	2845.13
echinoderm microtubule associated protein like 4	Eml4	100764725	12.12	11.84	11.26	12.15	11.44	11.03	2101.65	2055.17	1973.68	2108.08	1986.14	1926.35
echinoderm microtubule associated protein like 5	Eml5	100771482	1.04	1.06	0.97	1.11	1.27	1.25	238.50	248.89	228.54	257.28	296.01	284.14
echinoderm microtubule associated protein like 6	Eml6	100763779	2.60	2.30	3.03	3.10	3.78	3.71	584.09	527.06	685.63	696.51	842.48	839.33
epithelial membrane protein 1	Emp1	100753041	162.96	174.01	116.86	120.22	129.19	127.54	2735.86	2944.58	1961.26	1974.80	2130.00	2055.34
epithelial membrane protein 2	Emp2	100767430	11.49	11.95	11.22	11.93	12.89	14.00	985.12	1017.52	967.59	1016.37	1089.84	1189.83
epithelial membrane protein 3	Emp3	100751496	47.99	46.56	35.40	32.77	26.77	30.81	799.79	810.72	634.71	589.89	526.81	553.32
egf-like module containing, mucin-like, hormone receptor-like 1	Emr1	100751559	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
empty spiracles homeobox 1	Emx1	100768849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
empty spiracles homeobox 2	Emx2	100750961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

engrailed homeobox 1	En1	103163841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
engrailed homeobox 2	En2	100773986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
enabled homolog (Drosophila)	Enah	100752970	27.36	27.63	23.84	25.53	26.15	25.28	4767.63	4878.04	4224.34	4425.92	4472.18	4302.28
enamelin	Enam	100773739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ectodermal-neural cortex 1 (with BTB domain)	Enc1	100751664	8.25	8.43	6.93	7.77	10.18	9.87	1058.04	1080.65	896.79	1000.15	1302.01	1275.82
endonuclease domain containing 1	Endod1	100763760	20.32	20.56	23.06	26.07	33.46	32.44	2270.26	2308.63	2598.45	2923.95	3714.57	3648.02
endonuclease G	Endog	100770499	11.44	9.33	11.42	11.27	10.18	11.61	34.94	30.20	34.78	23.18	23.80	18.69
endonuclease, polyU-specific	Endou	100753999	0.05	0.00	0.05	0.12	0.13	0.18	2.28	0.00	2.48	5.79	7.24	6.54
endonuclease V	Endov	100760952	7.07	6.12	5.58	4.26	2.52	3.30	262.80	242.48	211.15	161.09	99.36	116.83
endoglin	Eng	100757433	199.48	188.69	177.78	151.00	94.38	105.46	17605.36	16662.76	15762.08	13263.84	8302.66	9319.59
endo-beta-N-acetylglucosaminidase	Engase	100754028	6.04	5.57	5.19	4.62	3.37	3.30	728.40	681.70	628.50	555.12	399.50	400.04
energy homeostasis associated	Enho	100771493	1.74	1.78	0.87	0.82	0.29	0.53	28.86	31.11	13.66	12.75	5.17	8.41
enkurin domain containing 1	Enkd1	100764090	3.22	3.94	4.33	3.44	3.05	3.35	132.16	147.32	170.17	132.12	110.74	117.77
enkurin, TRPC channel interacting protein	Enkur	100757646	0.06	0.13	0.09	0.04	0.00	0.03	1.52	4.58	2.48	1.16	0.00	0.93
enolase 1, (alpha)	Eno1	100752856	552.82	559.80	658.62	629.41	463.03	516.63	21393.94	21659.76	25420.55	23834.35	17670.32	19749.57
enolase 2 (gamma, neuronal)	Eno2	100758414	2.50	2.28	3.13	3.15	3.25	3.56	262.80	237.91	327.91	333.77	358.11	372.93
enolase 3 (beta, muscle)	Eno3	100771169	1.59	1.57	1.36	1.28	1.04	1.26	96.46	98.82	84.46	81.12	67.27	77.58
enolase family member 4	Eno4	100773987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
enolase-phosphatase 1	Enoph1	100767312	43.22	43.02	42.21	38.06	31.48	36.01	1495.53	1490.59	1459.45	1332.76	1152.97	1274.89
enolase superfamily member 1	Enosf1	100755139	0.55	0.58	0.57	0.66	0.84	0.88	51.65	47.58	48.44	61.42	78.66	80.38
ecto-NOX disulfide-thiol exchanger 1	Enox1	100770334	21.50	22.49	25.32	26.84	26.94	26.16	1961.89	2037.78	2282.96	2352.61	2466.37	2346.96
ecto-NOX disulfide-thiol exchanger 2	Enox2	100751206	5.51	5.52	4.67	5.38	4.90	5.13	517.25	531.63	455.85	515.72	481.27	500.05
ectonucleotide pyrophosphatase/phosphodiesterase 1	Enpp1	100750518	3.20	3.35	0.99	1.24	0.36	0.40	360.78	369.67	111.79	136.75	42.43	42.99
ectonucleotide pyrophosphatase/phosphodiesterase 2	Enpp2	100755955	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.92	0.00	0.00	1.03	0.00
ectonucleotide pyrophosphatase/phosphodiesterase 3	Enpp3	100751104	0.04	0.04	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative)	Enpp4	100763274	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative)	Enpp5	100757812	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ectonucleotide pyrophosphatase/phosphodiesterase 6	Enpp6	100757074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ectonucleotide pyrophosphatase/phosphodiesterase 7	Enpp7	100755684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endosulfine alpha	Ensa	100764533	67.84	67.67	68.28	68.82	67.83	71.24	4078.73	4083.79	4167.20	4196.45	4089.23	4368.65
ENTH domain containing 1	Enthd1	100769307	0.07	0.13	0.00	0.00	0.00	0.00	3.04	5.49	0.00	0.00	0.00	0.00
ENTH domain containing 2	Enthd2	100762986	9.53	8.35	11.10	7.58	5.34	6.24	689.66	645.10	792.45	578.30	403.64	456.12

ectonucleoside triphosphate diphosphohydrolase 1	Entpd1	100762593	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.92	0.00	1.16	0.00	0.93
ectonucleoside triphosphate diphosphohydrolase 2	Entpd2	100771642	0.00	0.02	0.03	0.00	0.00	0.02	0.00	0.92	1.24	0.00	0.00	0.93
ectonucleoside triphosphate diphosphohydrolase 3	Entpd3	100772668	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
ectonucleoside triphosphate diphosphohydrolase 4	Entpd4	100771637	13.70	13.44	10.96	11.43	12.82	13.00	1399.07	1400.00	1170.05	1194.85	1326.85	1352.47
ectonucleoside triphosphate diphosphohydrolase 5	Entpd5	100751454	5.07	4.97	5.54	6.01	7.31	6.18	277.99	288.24	330.40	332.61	409.85	353.31
ectonucleoside triphosphate diphosphohydrolase 6 (putative)	Entpd6	100765414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ectonucleoside triphosphate diphosphohydrolase 7	Entpd7	100751972	6.27	5.97	6.14	6.09	5.54	6.00	587.12	564.58	594.96	573.67	524.74	564.54
ectonucleoside triphosphate diphosphohydrolase 8	Entpd8	100755122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
enhancer of yellow 2 homolog (Drosophila)	Eny2	100768337	65.52	54.00	68.17	84.92	72.94	63.56	738.27	675.29	783.76	887.73	768.99	690.72
EGF domain-specific O-linked N-acetylglucosamine (GlcNAc) transferase	Eogt	100757071	2.90	3.44	3.44	4.04	4.09	3.89	332.68	351.37	363.93	416.05	478.16	457.05
eomesodermin	Eomes	100753878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E1A binding protein p300	Ep300	100762260	12.15	10.93	10.98	11.61	11.18	11.03	3144.49	2850.33	2865.49	3050.28	2911.42	2876.91
E1A binding protein p400	Ep400	100770341	13.35	12.89	10.93	11.19	11.00	10.59	4437.23	4292.42	3644.28	3683.05	3612.10	3506.88
endothelial PAS domain protein 1	Epas1	100771160	1.88	1.82	0.05	0.02	0.03	0.06	254.45	243.40	6.21	2.32	5.17	8.41
erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)	Epb41	100767741	7.45	7.29	8.42	8.63	8.55	8.92	1133.99	1101.70	1294.25	1309.58	1265.79	1351.53
erythrocyte membrane protein band 4.1-like 1	Epb41l1	100751805	9.54	9.87	6.76	6.64	6.16	5.95	935.75	987.32	671.97	654.79	597.19	582.30
erythrocyte membrane protein band 4.1-like 2	Epb41l2	100756569	34.33	34.68	23.24	25.48	21.14	19.86	3581.23	3672.94	2474.24	2651.61	2205.56	2084.31
erythrocyte membrane protein band 4.1-like 3	Epb41l3	100751173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
erythrocyte membrane protein band 4.1 like 4A	Epb41l4a	100754107	0.14	0.12	0.07	0.07	0.13	0.08	26.58	25.62	17.39	25.50	27.94	12.15
erythrocyte membrane protein band 4.1 like 4B	Epb41l4b	100764940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
erythrocyte membrane protein band 4.1 like 5	Epb41l5	100757297	10.77	11.39	15.00	15.29	17.08	16.71	1639.85	1709.28	2161.23	2264.53	2599.89	2577.82
erythrocyte membrane protein band 4.2	Epb42	100768600	0.01	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	1.16	0.00	0.00
enhancer of polycomb homolog 1 (Drosophila)	Epc1	100773878	13.67	13.85	15.23	15.52	15.09	14.18	1543.38	1549.15	1727.74	1722.15	1675.64	1582.40
enhancer of polycomb homolog 2 (Drosophila)	Epc2	100773541	15.03	14.84	13.73	14.83	15.63	14.58	1527.43	1518.04	1388.65	1526.30	1585.60	1459.02
epithelial cell adhesion molecule	Epcam	100770236	0.02	0.00	1.00	1.48	0.95	1.06	2.28	0.92	31.05	49.83	35.19	40.19
ependymin related 1	Epdr1	100770772	67.46	67.52	68.67	74.46	72.16	70.25	4364.31	4400.40	4434.25	4685.51	4495.98	4423.79
ectopic P-granules autophagy protein 5 homolog (C. elegans)	Epg5	100770998	3.19	3.11	3.01	3.47	3.72	3.96	917.52	897.65	876.91	995.51	1063.97	1138.43
epithelial mitogen	Epgn	100771437	0.00	0.00	0.00	0.20	0.18	0.00	0.00	0.00	1.24	1.16	2.07	0.00
EPH receptor A1	Epha1	100752024	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	1.24	0.00	0.00	0.93
EPH receptor A10	Epha10	100752731	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EPH receptor A2	Epha2	100752851	13.50	13.85	8.43	7.97	6.67	6.41	1606.43	1672.68	1016.03	949.16	792.80	773.91
EPH receptor A3	Epha3	100768107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPH receptor A4	Epha4	100754542	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPH receptor A5	Epha5	100770099	0.02	0.01	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
EPH receptor A7	Epha7	100750730	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
EPH receptor A8	Epha8	100769287	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPH receptor B1	Ephb1	100769764	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPH receptor B2	Ephb2	100766993	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
EPH receptor B3	Ephb3	100774807	0.68	0.46	0.35	0.27	0.28	0.33	74.43	49.41	40.99	30.13	28.98	42.06
EPH receptor B4	Ephb4	100769535	1.07	0.98	1.44	1.17	0.90	1.04	113.17	118.95	167.68	142.55	102.46	113.10
EPH receptor B6	Ephb6	100762813	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
epoxide hydrolase 1, microsomal (xenobiotic)	Ephx1	100750792	13.29	13.32	18.92	12.80	10.78	11.08	34.18	32.94	31.05	24.34	23.80	24.30
epoxide hydrolase 2, cytoplasmic	Ephx2	100757328	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
epoxide hydrolase 3	Ephx3	100753937	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
epoxide hydrolase 4	Ephx4	100761937	0.04	0.07	0.09	0.10	0.09	0.19	3.80	5.49	8.69	11.59	10.35	19.63
epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	Epm2a	100766433	0.59	0.49	0.57	0.77	0.97	0.47	16.71	11.90	16.15	19.70	22.77	16.82
EPM2A (laforin) interacting protein 1	Epm2aip1	100770168	3.72	3.60	3.59	3.76	4.73	4.06	420.03	410.85	413.61	440.39	549.58	465.47
epsin 1	Epn1	100769501	4.79	4.26	3.79	1.93	1.34	1.16	208.87	215.95	182.59	104.30	90.04	85.99
epsin 2	Epn2	100774824	6.80	6.77	6.90	6.37	6.19	6.61	634.22	643.27	637.19	594.53	604.43	624.36
epsin 3	Epn3	100762219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
erythropoietin	Epo	100753960	0.00	0.10	0.00	0.00	0.00	0.00	0.00	3.66	1.24	1.16	0.00	0.00
erythropoietin receptor	Epor	100769376	0.06	0.06	0.00	0.00	0.02	0.00	3.04	2.75	0.00	1.16	1.03	0.00
epiplakin 1	Eppk1	100757722	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
glutamyl-prolyl-tRNA synthetase	Eprs	100774338	111.25	112.40	117.95	128.42	129.64	128.57	16250.34	16471.52	17225.26	18507.95	18687.71	18603.67
epidermal growth factor receptor pathway substrate 15	Eps15	100751122	25.11	26.34	24.47	27.00	30.97	31.04	2948.53	3132.16	2916.42	3193.98	3635.91	3652.69
epidermal growth factor receptor pathway substrate 15-like 1	Eps15l1	100755944	19.83	19.92	17.83	17.70	14.80	14.92	1681.62	1681.83	1517.83	1403.45	1162.29	1205.72
epidermal growth factor receptor pathway substrate 8	Eps8	100750968	63.97	64.73	44.85	45.30	47.63	47.17	7250.56	7236.09	5191.92	5204.71	5350.88	5321.07
EPS8-like 2	Eps8l2	100751674	0.71	0.58	0.57	0.44	0.61	0.76	66.84	53.99	52.17	41.72	62.10	69.17
EPS8-like 3	Eps8l3	100753693	0.02	0.00	0.00	0.00	0.00	0.02	2.28	2.75	0.00	0.00	1.03	3.74
ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)	Ept1	100759003	11.77	11.70	12.33	13.63	14.29	15.16	2245.20	2218.96	2378.60	2585.55	2693.03	2882.52
eosinophil peroxidase	Epx	100751071	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
epiphycan	Epyc	100754407	0.10	0.09	0.00	0.04	0.00	0.00	3.80	2.75	0.00	1.16	0.00	0.93
equatorin, sperm acrosome associated	Eqtn	100766597	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	4.64	0.00	0.00
Era-like 12S mitochondrial rRNA chaperone 1	Eral1	100766924	13.60	14.63	13.90	14.13	13.71	14.84	780.05	815.29	827.23	847.17	820.74	899.15
endoplasmic reticulum aminopeptidase 1	Erap1	100756235	18.98	19.62	23.62	24.42	27.02	25.70	2155.57	2242.75	2692.84	2729.26	3052.17	2898.41
ES cell expressed Ras	Eras	100763405	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2	Erbb2	100759983	10.90	10.22	7.85	7.73	5.41	5.41	1442.36	1356.08	1035.90	1017.53	724.49	723.43
erbb2 interacting protein	Erbb2ip	100774374	20.38	20.52	19.90	23.99	25.31	23.60	3519.70	3531.11	3461.70	4173.27	4383.17	4140.59

v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3	Erbb3	100767681	0.02	0.00	0.01	0.01	0.02	0.02	3.80	1.83	1.24	1.16	5.17	3.74
ELKS/RAB6-interacting/CAST family member 1	Erc1	100753317	12.33	11.91	12.66	14.08	14.25	14.29	2931.82	2852.16	3082.86	3380.57	3386.48	3405.94
ELKS/RAB6-interacting/CAST family member 2	Erc2	100770769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
excision repair cross-complementation group 1	Ercc1	100689377	17.61	17.51	13.37	7.84	6.67	6.73	355.46	316.60	284.44	215.56	219.42	224.32
excision repair cross-complementation group 2	Ercc2	100689272	4.39	4.24	5.90	4.65	3.23	3.41	404.83	398.04	514.22	413.73	268.06	295.36
excision repair cross-complementation group 3	Ercc3	100689367	16.36	16.74	18.33	15.90	18.32	18.67	1157.54	1152.03	1281.83	1107.93	1222.32	1256.20
excision repair cross-complementation group 4	Ercc4	100689044	5.58	5.75	5.95	5.95	6.63	6.46	477.75	487.71	489.38	502.97	549.58	541.17
excision repair cross-complementation group 5	Ercc5	100764306	24.88	25.89	28.45	30.50	33.26	30.57	2549.77	2649.02	2910.21	3085.04	3335.76	3114.32
excision repair cross-complementation group 6-like	Ercc6l	100757441	10.65	10.74	12.00	13.30	14.78	14.49	1233.49	1254.51	1401.07	1540.20	1699.45	1686.14
excision repair cross-complementation group 8	Ercc8	100755229	18.49	19.25	20.97	23.02	23.14	23.30	1127.92	1194.12	1330.28	1405.77	1422.07	1416.96
epiregulin	Ereg	100771728	0.03	0.02	0.00	0.01	0.00	0.00	3.80	1.83	0.00	1.16	0.00	0.00
v-ets avian erythroblastosis virus E26 oncogene homolog	Erg	100764178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1	Ergic1	100774570	54.27	54.85	64.27	68.38	64.34	67.26	4324.06	4363.79	5124.85	5361.16	5046.59	5316.40
ERGIC and golgi 2	Ergic2	100763592	60.73	60.76	49.38	57.45	62.24	59.91	623.58	631.37	505.53	585.25	671.71	612.21
ERGIC and golgi 3	Ergic3	100755369	89.01	88.01	120.22	110.63	108.73	122.35	3404.25	3344.45	4439.22	4051.58	4059.22	4527.54
enhancer of rudimentary homolog (Drosophila)	Erh	100758434	214.16	209.98	210.63	202.83	209.44	215.63	4156.96	4073.73	4041.75	3845.30	4006.43	4107.87
exoribonuclease 1	Eri1	100773583	17.11	18.00	20.85	21.87	23.86	23.34	1795.55	1896.86	2208.43	2295.82	2476.72	2450.70
ERI1 exoribonuclease family member 2	Eri2	100751601	5.53	5.59	5.95	6.63	7.40	7.40	498.26	529.80	544.03	629.29	687.23	679.50
ERI1 exoribonuclease family member 3	Eri3	100756117	41.23	40.98	41.91	40.39	35.76	37.35	1481.10	1418.30	1435.85	1348.98	1213.00	1269.28
glutamate-rich 1	Erich1	100758343	19.58	21.49	18.48	19.53	18.70	20.69	755.74	829.02	703.02	767.20	733.81	797.27
glutamate-rich 2	Erich2	100773190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate-rich 3	Erich3	100770258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate-rich 4	Erich4	100774810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate-rich 6	Erich6	100772843	0.14	0.14	0.11	0.10	0.12	0.08	9.11	7.32	8.69	5.79	7.24	6.54
endoplasmic reticulum lectin 1	Erlec1	100767274	36.80	37.51	36.02	39.59	38.66	36.88	2557.37	2681.05	2586.02	2813.86	2772.73	2586.23
ER lipid raft associated 1	Erlin1	100754719	57.13	54.00	65.98	68.33	74.03	74.58	4848.90	4621.83	5668.88	5751.72	6198.53	6257.61
ER lipid raft associated 2	Erlin2	100770510	17.12	17.84	16.26	17.38	22.96	21.14	1973.28	2069.81	1890.46	1984.07	2627.83	2430.14
erythroblast membrane-associated protein (Scianna blood group)	Ermap	100753808	0.06	0.02	0.05	0.03	0.01	0.05	5.32	3.66	4.97	2.32	2.07	3.74
ER membrane-associated RNA degradation	Ermard	100752150	2.73	2.76	2.26	2.85	2.97	3.13	327.36	322.09	260.84	321.02	347.76	367.33
ermin, ERM-like protein	Ermn	100759143	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
endoplasmic reticulum metallopeptidase 1	Ermp1	100760334	26.36	27.28	25.50	29.10	33.44	31.94	3659.46	3791.90	3582.18	4033.04	4623.28	4409.77
endoplasmic reticulum to nucleus signaling 1	Ern1	100750680	15.00	14.48	18.81	19.10	17.70	17.78	3001.70	2922.62	3813.21	3827.91	3561.39	3584.46

endoplasmic reticulum to nucleus signaling 2	Ern2	100761252	0.00	0.00	0.00	0.03	0.00	0.00	1.52	0.92	1.24	2.32	1.03	0.93
ERO1-like (S. cerevisiae)	Ero1l	100763138	24.84	26.35	27.92	28.92	32.12	32.37	2801.94	2938.17	3148.69	3198.62	3577.95	3615.30
ERO1-like beta (S. cerevisiae)	Ero1lb	100764579	2.99	3.24	3.33	3.80	4.55	4.54	389.64	418.17	437.21	497.18	572.35	586.97
endoplasmic reticulum protein 27	Erp27	100754205	0.37	0.29	0.11	0.10	0.03	0.05	18.23	10.98	3.73	4.64	3.10	1.87
endoplasmic reticulum protein 29	Erp29	100762501	48.28	49.20	56.14	48.92	42.86	43.46	1430.21	1458.56	1678.06	1437.06	1257.51	1274.89
endoplasmic reticulum protein 44	Erp44	100750874	44.75	46.46	50.00	55.45	58.96	54.20	1850.24	1946.28	2038.26	2222.81	2373.22	2174.98
ERBB receptor feedback inhibitor 1	Errfi1	100758904	41.15	39.29	37.56	41.58	53.90	52.83	3484.01	3335.30	3212.04	3528.91	4536.34	4487.35
endothelial cell adhesion molecule	Esam	100769354	0.03	0.00	0.05	0.07	0.06	0.02	1.52	0.92	2.48	3.48	3.10	1.87
establishment of sister chromatid cohesion N-acetyltransferase 1	Esco1	100764656	8.80	8.38	8.18	9.63	11.98	10.09	1039.81	1012.94	950.20	1129.95	1381.71	1145.91
establishment of sister chromatid cohesion N-acetyltransferase 2	Esco2	100755867	9.63	9.22	10.09	12.69	14.82	12.70	982.08	946.14	1078.13	1304.94	1523.50	1343.12
esterase D	Esd	100774799	71.66	73.87	64.16	68.20	72.21	70.39	2163.93	2216.21	1938.90	1973.64	2141.39	2061.88
ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae)	Esf1	100771608	64.21	60.68	58.55	69.07	65.16	64.32	3079.93	2918.04	2834.44	3290.17	3122.55	3090.95
endothelial cell-specific molecule 1	Esm1	100773837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
extra spindle pole bodies homolog 1 (S. cerevisiae)	Espl1	100768842	13.07	12.47	12.53	12.40	10.85	11.32	2656.11	2541.05	2576.09	2513.70	2230.40	2317.05
espin	Espn	100755239	0.07	0.07	0.00	0.00	0.00	0.00	7.60	6.41	0.00	0.00	1.03	0.00
espin-like	Espnl	100773927	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
estrogen receptor 1	Esr1	100768474	1.41	1.33	1.25	1.35	1.48	1.52	236.22	223.27	207.43	223.67	245.29	250.49
estrogen receptor 2 (ER beta)	Esr2	100763291	0.79	0.79	0.86	0.74	0.62	0.78	68.36	72.29	80.74	69.54	58.99	71.97
epithelial splicing regulatory protein 1	Esrp1	100759516	0.02	0.02	0.00	0.00	0.00	0.00	0.76	0.92	1.24	0.00	1.03	0.93
epithelial splicing regulatory protein 2	Esrp2	100755569	0.13	0.21	0.06	0.05	0.14	0.01	15.19	16.47	11.18	8.11	12.42	5.61
estrogen-related receptor alpha	Esrra	100761304	21.05	18.77	20.53	13.13	7.85	9.79	1228.17	1104.45	1212.28	782.27	469.88	582.30
estrogen-related receptor beta	Esrrb	100760486	0.02	0.08	0.04	0.00	0.00	0.00	3.04	2.75	1.24	0.00	0.00	0.00
estrogen-related receptor gamma	Esrrg	100760533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
extended synaptotagmin-like protein 1	Esyt1	100767105	30.32	30.09	35.24	32.69	31.28	35.23	3474.13	3528.37	4167.20	3848.77	3644.19	4074.23
extended synaptotagmin-like protein 2	Esyt2	100761977	37.56	37.21	39.57	40.21	45.41	45.18	5808.20	5791.25	6158.27	6230.35	6978.91	6948.33
extended synaptotagmin-like protein 3	Esyt3	100771388	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	2.32	1.03	0.00
Ewing tumor-associated antigen 1	Etaa1	100750682	13.66	13.04	16.70	19.36	21.10	19.23	1175.01	1130.98	1445.79	1666.53	1808.12	1669.32
eukaryotic translation termination factor 1	Etf1	100755265	94.25	97.56	93.78	100.80	99.65	98.92	9321.07	9672.82	9313.17	9914.56	9750.61	9749.54
electron-transfer-flavoprotein, alpha polypeptide	Etfa	100758144	110.45	112.19	115.64	125.15	134.46	133.58	4229.11	4429.68	4506.29	4727.23	5114.90	5022.91
electron-transfer-flavoprotein, beta polypeptide	Etfb	100753078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
electron-transferring-flavoprotein dehydrogenase	Etfdh	100763190	25.84	26.76	27.74	30.26	36.08	33.52	1677.06	1762.35	1834.56	1997.98	2371.15	2145.07
ethylmalonic encephalopathy 1	Ethe1	100769786	47.11	41.23	72.10	65.08	47.34	57.08	540.79	460.26	787.48	673.33	509.21	612.21
ethanolamine kinase 1	Etnk1	100765795	20.56	20.36	20.77	22.40	23.62	22.92	3644.27	3613.47	3712.60	3983.21	4166.85	4088.25
ethanolamine kinase 2	Etnk2	100766811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ethanolamine-phosphate phospho-lyase	Etnppl	100753688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
v-ets avian erythroblastosis virus E26 oncogene homolog 1	Ets1	100767456	103.82	106.12	89.45	94.73	96.12	95.24	8973.96	9064.32	7797.82	8504.15	9664.70	9627.10

v-ets avian erythroblastosis virus E26 oncogene homolog 2	Ets2	100774407	23.90	22.87	34.02	32.26	28.90	29.61	2334.82	2243.66	3342.46	3129.08	2797.57	2882.52
ets variant 1	Etv1	100758498	4.79	5.42	3.76	4.09	5.43	5.65	454.20	517.91	360.21	389.40	515.42	527.15
ets variant 3	Etv3	100750397	6.15	5.60	5.31	5.67	5.35	5.30	382.05	359.61	340.33	347.68	329.13	326.20
ets variant 3-like	Etv3l	100760586	0.15	0.23	0.24	0.13	0.03	0.14	20.51	40.26	22.36	22.02	11.38	15.89
ets variant 4	Etv4	100774750	163.42	156.64	168.02	162.16	144.04	149.02	5869.72	5559.74	5988.10	5766.79	5154.23	5398.65
ets variant 5	Etv5	100756646	9.85	9.37	7.48	7.97	7.52	7.60	1099.81	1055.95	842.13	895.85	836.27	844.94
ets variant 6	Etv6	100771873	4.11	3.93	4.75	4.79	5.25	5.17	530.92	511.50	613.59	624.66	694.48	688.85
eva-1 homolog A (C. elegans)	Eva1a	100765979	4.61	5.08	3.90	4.23	3.13	2.90	221.79	245.23	191.28	197.02	143.86	138.33
eva-1 homolog B (C. elegans)	Eva1b	100759036	4.20	4.56	5.20	2.56	1.18	1.42	115.45	123.53	142.84	68.38	27.94	36.45
eva-1 homolog C (C. elegans)	Eva1c	100767132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ellis van Creveld syndrome	Evc	100771932	7.23	7.47	9.95	9.78	9.33	9.53	951.70	986.41	1294.25	1277.13	1227.49	1248.72
Ellis van Creveld syndrome 2	Evc2	100751511	6.17	6.54	5.77	5.51	4.15	4.17	745.87	764.97	706.75	649.00	509.21	533.70
ecotropic viral integration site 2A	Evi2a	100761225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ecotropic viral integration site 2B	Evi2b	100760937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ecotropic viral integration site 5	Evi5	100769964	5.89	6.05	5.96	7.54	7.77	7.33	1045.13	1076.08	1058.26	1317.69	1356.87	1297.32
ecotropic viral integration site 5-like	Evi5l	100755001	8.47	7.53	9.09	8.74	7.66	7.82	868.15	877.52	1009.82	903.96	806.25	803.82
Enah/Vasp-like	Evl	100771012	15.99	15.31	16.61	13.85	12.74	13.00	791.44	784.18	848.35	696.51	633.41	653.33
envoplakin	Evpl	100760021	0.04	0.04	0.11	0.04	0.05	0.01	9.11	7.32	19.87	6.95	8.28	1.87
even-skipped homeobox 1	Evx1	100763300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
even-skipped homeobox 2	Evx2	100759401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EWS RNA-binding protein 1	Ewsr1	100773033	217.41	218.49	203.12	185.38	183.69	187.04	16020.96	16162.24	15124.89	13740.15	13838.80	14028.46
exonuclease 3'-5' domain containing 1	Exd1	100764230	3.10	3.34	3.04	3.44	4.29	4.20	309.13	330.33	303.07	345.36	454.36	430.88
exonuclease 3'-5' domain containing 2	Exd2	100765115	32.10	31.96	19.36	18.62	18.78	20.16	2674.34	2715.82	1642.04	1563.38	1579.39	1688.01
exonuclease 1	Exo1	100772338	13.36	13.23	16.62	16.45	17.87	17.18	1322.36	1324.05	1655.70	1686.23	1779.14	1704.84
exonuclease 5	Exo5	100753327	7.48	7.75	7.74	9.48	8.45	7.56	392.68	407.19	411.13	500.65	444.01	398.17
exocyst complex component 1	Exoc1	100770306	23.62	24.30	15.47	17.25	18.49	18.40	2282.42	2394.64	1535.22	1697.82	1790.53	1763.72
exocyst complex component 2	Exoc2	100755817	40.64	42.44	40.79	43.70	47.38	46.27	4921.81	5202.88	5060.26	5357.69	5856.99	5632.32
exocyst complex component 3	Exoc3	100756215	21.58	21.77	19.38	18.65	20.77	21.97	1583.64	1603.14	1458.21	1387.23	1592.84	1660.91
exocyst complex component 3-like 2	Exoc3l2	100754318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
exocyst complex component 3-like 4	Exoc3l4	100756620	0.87	1.01	0.57	0.59	0.39	0.52	197.48	217.78	136.63	143.71	98.32	128.05
exocyst complex component 4	Exoc4	100750685	16.62	17.77	13.50	14.29	15.48	16.90	2159.37	2303.14	1719.05	1795.17	2003.73	2167.50
exocyst complex component 5	Exoc5	100769231	15.33	15.42	16.40	19.33	21.18	18.48	1968.73	2002.09	2131.42	2481.25	2706.49	2364.71
exocyst complex component 6	Exoc6	100751436	12.42	11.73	7.50	7.61	8.59	7.96	1000.31	952.55	592.48	596.84	658.25	630.90
exocyst complex component 6B	Exoc6b	100757038	10.24	10.41	10.95	12.62	14.13	14.08	1564.65	1576.60	1681.79	1907.58	2099.99	2107.68
exocyst complex component 7	Exoc7	100754030	13.65	13.13	15.63	16.08	13.62	15.08	1699.09	1663.53	1998.52	2013.04	1679.78	1874.01
exocyst complex component 8	Exoc8	100764733	6.85	7.01	8.68	7.66	8.45	8.91	766.38	783.27	982.49	865.71	957.36	1007.57
endo/exonuclease (5'-3'), endonuclease G-like	Exog	100750872	5.36	4.83	6.43	6.26	6.46	6.62	647.13	599.35	791.21	757.93	782.45	799.14
exosome component 1	Exosc1	100757484	40.58	40.00	49.54	52.12	49.87	48.80	1204.63	1229.81	1456.97	1519.34	1469.68	1435.65
exosome component 10	Exosc10	100754929	28.84	29.79	36.40	39.18	34.63	37.12	2551.29	2634.38	3197.13	3382.89	3018.02	3207.79
exosome component 2	Exosc2	100761222	48.12	48.35	47.87	49.97	45.44	47.32	2113.80	2132.03	2106.58	2149.80	2001.66	2065.62

exosome component 3	Exosc3	100753640	21.71	18.47	17.06	18.89	21.08	21.57	363.06	323.01	293.13	307.11	342.58	343.02
exosome component 4	Exosc4	100766618	35.50	32.01	40.82	33.78	20.51	26.84	756.50	703.66	898.03	717.37	463.67	575.76
exosome component 5	Exosc5	100773940	13.43	12.29	12.35	6.17	5.21	4.99	277.99	279.09	294.37	148.34	132.48	104.68
exosome component 7	Exosc7	100763217	38.87	36.98	39.11	36.73	33.27	32.92	1156.78	1098.04	1085.58	1058.09	921.14	946.82
exosome component 8	Exosc8	100769802	66.19	65.73	73.17	78.97	82.14	81.47	1693.01	1690.07	1892.94	1971.32	2075.15	2038.51
exosome component 9	Exosc9	100759081	24.97	25.81	21.33	23.49	24.21	23.15	956.26	970.85	824.75	924.82	933.56	899.15
exophilin 5	Exph5	100753332	1.78	1.73	1.90	2.13	2.00	1.95	369.14	346.80	385.05	431.12	405.71	401.91
exostosin glycosyltransferase 1	Ext1	100689334	21.83	19.76	23.65	25.92	19.85	20.62	1567.69	1462.22	1751.34	1872.81	1455.19	1505.75
exostosin glycosyltransferase 2	Ext2	100751585	34.79	34.23	42.83	43.94	37.58	42.97	2861.94	2853.07	3566.03	3598.45	3109.10	3549.88
exostosin-like glycosyltransferase 1	Extl1	100770000	6.46	5.76	5.34	3.90	1.78	2.00	625.86	560.92	514.22	368.54	172.84	189.74
exostosin-like glycosyltransferase 2	Extl2	100761218	27.16	28.03	32.43	32.43	38.06	38.19	2271.02	2349.81	2691.60	2663.20	3100.82	3144.23
exostosin-like glycosyltransferase 3	Extl3	100751999	13.92	13.24	12.89	13.39	12.54	12.89	2533.06	2422.09	2362.45	2452.27	2256.27	2359.11
eyes absent homolog 1 (Drosophila)	Eya1	100772860	0.04	0.20	0.00	0.00	0.00	0.00	4.56	17.39	0.00	0.00	0.00	0.00
eyes absent homolog 2 (Drosophila)	Eya2	100768991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eyes absent homolog 3 (Drosophila)	Eya3	100772330	16.84	17.02	18.51	19.85	21.13	21.22	2140.38	2178.69	2364.93	2531.08	2668.19	2690.91
eyes absent homolog 4 (Drosophila)	Eya4	100754333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
enhancer of zeste homolog 1 (Drosophila)	Ezh1	100760595	12.48	12.24	9.14	9.17	9.72	10.19	1607.94	1626.93	1222.21	1213.39	1277.17	1344.99
enhancer of zeste homolog 2 (Drosophila)	Ezh2	100758055	19.32	18.09	20.06	21.88	22.48	23.40	1459.07	1422.88	1578.69	1678.12	1766.72	1739.42
ezrin	Ezr	100762541	88.18	94.77	58.98	58.68	55.83	57.99	6750.78	7233.34	4517.47	4406.21	4194.80	4326.59
coagulation factor X	F10	100758763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coagulation factor XI	F11	100768163	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
F11 receptor	F11r	100764378	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
coagulation factor XII (Hageman factor)	F12	100764143	0.00	0.00	0.00	0.00	0.00	0.02	0.76	0.00	0.00	0.00	0.00	1.87
coagulation factor XIII, A1 polypeptide	F13a1	100761709	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coagulation factor XIII, B polypeptide	F13b	100764268	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
coagulation factor II (thrombin)	F2	100754947	0.00	0.00	0.00	0.00	0.02	0.00	1.52	0.00	0.00	1.16	2.07	0.00
coagulation factor II (thrombin) receptor	F2r	100758351	56.03	54.69	93.47	101.95	88.77	91.46	3933.65	3887.98	6694.85	7306.99	6395.18	6539.88
coagulation factor II (thrombin) receptor-like 1	F2rl1	100757860	1.44	1.69	1.53	1.71	1.84	1.67	110.89	126.27	116.76	125.16	137.65	129.92
coagulation factor II (thrombin) receptor-like 2	F2rl2	100758642	0.72	0.67	0.35	0.41	0.80	0.69	64.56	58.56	31.05	38.24	72.45	65.43
coagulation factor II (thrombin) receptor-like 3	F2rl3	100757293	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
coagulation factor III (thromboplastin, tissue factor)	F3	100765608	0.89	0.92	0.09	0.11	0.08	0.02	41.02	40.26	3.73	6.95	3.10	0.93
coagulation factor V (proaccelerin, labile factor)	F5	100761588	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
coagulation factor VII (serum prothrombin conversion accelerator)	F7	100759052	0.05	0.00	0.03	0.02	0.00	0.02	2.28	0.00	1.24	1.16	0.00	0.93
coagulation factor VIII, procoagulant component	F8	100756560	0.45	0.46	0.39	0.44	0.51	0.51	136.72	139.09	119.24	132.12	150.07	151.42
coagulation factor IX	F9	100757213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid 2-hydroxylase	Fa2h	100771615	0.01	0.01	0.61	0.28	0.00	0.01	0.76	0.92	45.96	20.86	0.00	0.93
fatty acid amide hydrolase	Faah	100771171	7.62	7.72	8.54	7.36	5.68	7.02	557.50	584.71	632.22	565.55	426.41	516.87
fatty acid binding protein 1, liver	Fabp1	100769104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

fatty acid binding protein 12	Fabp12	100761683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)	Fabp3	100761139	1.50	1.10	1.87	1.41	1.62	1.42	48.61	32.03	54.65	45.20	48.64	49.54
fatty acid binding protein 4, adipocyte	Fabp4	100760812	0.10	0.44	0.00	0.00	0.00	0.00	1.52	8.24	0.00	0.00	0.00	0.00
fatty acid binding protein 5 (psoriasis-associated)	Fabp5	100762553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid binding protein 6, ileal	Fabp6	100767370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid binding protein 7, brain	Fabp7	100752143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid binding protein 9, testis	Fabp9	100761969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fas (TNFRSF6)-associated via death domain	Fadd	100774599	5.09	5.16	5.76	5.87	5.67	6.11	326.60	334.90	360.21	381.28	380.87	401.91
fatty acid desaturase 1	Fads1	100773095	3.35	3.61	3.63	3.98	3.60	3.96	139.76	154.64	141.60	159.93	152.14	172.91
fatty acid desaturase 2	Fads2	100757464	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
fatty acid desaturase 3	Fads3	100757171	19.74	19.13	15.54	14.64	12.26	13.07	1023.86	994.64	797.42	749.82	634.45	672.96
fatty acid desaturase 6	Fads6	100772984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fas (TNFRSF6) associated factor 1	Faf1	100774441	29.51	28.14	34.01	35.35	35.42	36.28	3616.93	3516.47	4256.63	4341.31	4350.05	4338.74
Fas associated factor family member 2	Faf2	100767643	22.13	22.29	21.39	23.71	22.73	24.18	2182.16	2233.60	2171.17	2351.45	2244.89	2413.32
fumarylacetoacetate hydrolase (fumarylacetoacetase)	Fah	100757944	11.53	10.68	11.70	12.16	10.26	10.33	285.59	279.09	301.83	304.80	232.87	277.60
fumarylacetoacetate hydrolase domain containing 1	Fahd1	100766004	19.79	18.65	18.99	14.87	14.27	11.73	546.11	515.16	582.54	455.46	464.71	421.54
fumarylacetoacetate hydrolase domain containing 2A	Fahd2a	100774837	14.96	12.61	8.80	8.14	7.06	8.11	562.82	478.56	352.75	319.86	291.87	325.27
Fas apoptotic inhibitory molecule 2	Faim2	100756789	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
Fas apoptotic inhibitory molecule 3	Faim3	100770414	0.11	0.04	0.03	0.00	0.00	0.04	6.08	2.75	2.48	1.16	0.00	1.87
family with sequence similarity 101, member A	Fam101a	100767489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
family with sequence similarity 101, member B	Fam101b	100763414	18.08	16.22	15.20	16.37	14.78	15.78	567.38	518.82	521.68	538.90	477.13	526.22
family with sequence similarity 102, member A	Fam102a	100756559	4.49	4.53	5.19	4.61	4.82	4.62	501.30	500.52	575.09	513.40	522.67	515.00
family with sequence similarity 102, member B	Fam102b	100754924	16.03	16.51	21.24	23.95	25.60	23.75	2428.25	2513.60	3271.66	3649.44	3866.71	3607.83
family with sequence similarity 103, member A1	Fam103a1	100770192	33.18	34.57	30.74	32.59	33.26	32.72	1296.53	1346.01	1201.10	1263.22	1287.52	1272.09
family with sequence similarity 104, member A	Fam104a	100762576	23.41	24.27	25.28	24.30	23.79	22.12	818.78	799.74	943.99	909.75	892.16	821.57
family with sequence similarity 105, member A	Fam105a	100772539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 107, member A	Fam107a	100763708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 107, member B	Fam107b	100751328	77.53	82.64	82.72	89.91	106.89	104.21	6538.11	6991.77	7063.75	7624.53	8966.09	8815.80
family with sequence similarity 109, member A	Fam109a	100773389	8.68	7.67	8.43	5.00	4.08	4.35	538.51	488.63	557.70	377.81	324.99	341.15
family with sequence similarity 109, member B	Fam109b	100751381	0.08	0.00	0.06	0.06	0.00	0.00	1.52	2.75	1.24	1.16	0.00	1.87
family with sequence similarity 110, member A	Fam110a	100760972	10.77	9.68	8.29	6.08	3.17	4.60	465.60	417.26	362.69	270.03	148.00	205.63

family with sequence similarity 110, member B	Fam110b	100754309	3.50	3.88	6.92	6.56	5.05	5.81	287.87	323.01	586.26	548.17	415.03	478.55
family with sequence similarity 110, member C	Fam110c	100773311	0.03	0.15	0.00	0.05	0.00	0.07	0.76	3.66	0.00	1.16	0.00	1.87
family with sequence similarity 110, member D	Fam110d	100771715	0.22	0.26	0.00	0.08	0.00	0.00	6.08	4.58	2.48	1.16	0.00	0.00
family with sequence similarity 114, member A1	Fam114a1	100762494	10.40	10.94	11.02	11.87	11.89	11.42	861.32	903.14	914.18	982.76	974.96	954.30
family with sequence similarity 114, member A2	Fam114a2	100768819	13.94	14.34	14.07	14.46	14.69	15.50	1045.89	1087.06	1057.02	1088.23	1082.60	1140.30
family with sequence similarity 115, member A	Fam115a	100753518	5.35	5.18	5.48	5.71	5.03	5.61	821.82	807.97	863.25	887.73	778.31	873.92
family with sequence similarity 117, member A	Fam117a	100761276	6.15	5.84	3.19	2.81	2.56	3.16	366.10	348.63	188.80	170.36	154.21	183.20
family with sequence similarity 117, member B	Fam117b	100767817	7.36	7.22	7.23	8.03	8.97	8.36	1012.47	1001.05	1007.33	1107.93	1217.14	1148.71
family with sequence similarity 118, member A	Fam118a	100764016	7.29	7.87	7.23	7.34	8.60	7.92	412.43	432.81	428.52	434.59	496.79	462.66
family with sequence similarity 118, member B	Fam118b	100761453	14.22	15.37	13.95	16.66	15.29	16.80	645.61	697.26	635.95	754.46	694.48	743.06
family with sequence similarity 120A	Fam120a	100759484	103.30	104.43	115.10	110.86	150.83	150.34	13921.59	14267.20	15717.37	14933.84	20144.97	20146.81
family with sequence similarity 120B	Fam120b	100750992	20.16	19.62	18.27	18.61	19.49	19.99	2109.24	2053.34	1961.26	1981.75	2088.60	2163.76
family with sequence similarity 120C	Fam120c	100756331	4.27	4.16	6.99	7.54	8.18	7.74	930.44	900.39	1529.01	1628.28	1746.02	1664.65
family with sequence similarity 122A	Fam122a	100762589	8.78	8.23	9.28	9.24	8.37	9.48	283.31	280.00	304.31	304.80	274.27	308.44
family with sequence similarity 122B	Fam122b	100767852	3.18	3.28	3.72	3.87	5.39	5.14	337.99	341.31	371.38	391.71	521.63	502.85
family with sequence similarity 124A	Fam124a	100761912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 124B	Fam124b	100759764	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
family with sequence similarity 126, member A	Fam126a	100761584	36.44	35.84	35.46	38.42	40.70	38.90	4431.91	4410.46	4488.90	5010.01	5231.86	5161.25
family with sequence similarity 126, member B	Fam126b	100757717	1.21	1.33	1.29	1.52	1.65	1.17	158.74	169.28	172.65	194.70	210.10	157.96
family with sequence similarity 129, member A	Fam129a	100751843	29.70	28.52	32.73	33.61	33.16	34.08	3837.19	3690.33	4302.59	4401.58	4316.93	4455.57
family with sequence similarity 129, member B	Fam129b	100761378	52.27	49.99	49.74	46.14	39.60	41.80	5350.95	5136.08	5124.85	4731.87	4043.69	4266.77
family with sequence similarity 129, member C	Fam129c	100774372	0.10	0.11	0.08	0.13	0.11	0.09	19.75	15.56	19.87	19.70	14.49	16.82
family with sequence similarity 131, member A	Fam131a	100770285	7.13	6.94	8.07	5.81	4.08	5.10	417.75	409.02	452.12	292.05	202.86	257.97
family with sequence similarity 131, member B	Fam131b	100751738	1.25	1.37	0.51	0.67	0.47	0.50	150.39	156.47	62.10	79.97	55.89	64.49
family with sequence similarity 131, member C	Fam131c	100753151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 132, member A	Fam132a	100767884	0.12	0.03	0.40	0.30	0.10	0.24	12.15	2.75	22.36	17.38	6.21	16.82
family with sequence similarity 132, member B	Fam132b	100772579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

family with sequence similarity 133, member A	Fam133a	100750880	2.11	2.12	2.14	2.15	3.29	3.22	192.16	189.41	188.80	191.22	293.94	298.16
family with sequence similarity 133, member B	Fam133b	100764219	35.23	35.95	33.17	34.54	35.32	32.32	2855.87	2942.75	2705.27	2791.84	2817.23	2589.97
family with sequence similarity 134, member A	Fam134a	100774602	36.05	33.37	38.04	37.26	32.78	38.07	2653.07	2477.00	2858.04	2791.84	2433.25	2833.92
family with sequence similarity 134, member B	Fam134b	100766605	16.71	16.45	17.05	19.73	20.33	18.78	1594.27	1572.94	1643.28	1869.34	1920.93	1795.50
family with sequence similarity 134, member C	Fam134c	100759145	17.19	15.95	13.57	12.08	11.53	12.91	1577.56	1486.01	1270.65	1124.15	1057.76	1189.83
family with sequence similarity 135, member A	Fam135a	100753684	15.69	15.19	17.89	21.27	21.84	20.57	2760.93	2701.18	3161.11	3774.60	3835.66	3637.73
family with sequence similarity 135, member B	Fam135b	100766234	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 136, member A	Fam136a	100773052	30.95	31.68	28.87	28.79	27.37	25.14	1332.99	1347.84	1208.55	1185.58	1073.28	1016.92
family with sequence similarity 13, member A	Fam13a	100753068	1.77	1.57	1.66	1.76	1.72	1.63	274.95	251.63	257.11	268.87	262.89	259.84
family with sequence similarity 13, member B	Fam13b	100775045	8.15	7.73	6.66	7.60	8.92	8.28	924.36	876.60	763.88	848.33	984.27	925.32
family with sequence similarity 13, member C	Fam13c	100761386	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 149, member A	Fam149a	100751039	19.75	20.39	22.57	25.06	26.27	24.11	2636.36	2739.61	3036.90	3343.48	3495.15	3210.59
family with sequence similarity 149, member B1	Fam149b1	100761680	10.31	9.82	9.39	8.47	9.59	10.35	681.31	660.65	634.71	601.48	685.16	689.79
family with sequence similarity 150, member A	Fam150a	103160480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 150, member B	Fam150b	100774090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 151, member A	Fam151a	100752673	0.16	0.02	0.08	0.05	0.07	0.06	15.19	11.90	24.84	10.43	19.66	22.43
family with sequence similarity 151, member B	Fam151b	100761480	11.51	12.31	11.36	12.89	13.83	14.99	413.19	446.54	421.07	450.82	479.20	529.96
family with sequence similarity 154, member A	Fam154a	100761997	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
family with sequence similarity 154, member B	Fam154b	100763911	0.12	0.18	0.21	0.21	0.12	0.21	13.67	23.79	21.12	23.18	20.70	21.50
family with sequence similarity 155, member A	Fam155a	100754176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 155, member B	Fam155b	100768072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 159, member A	Fam159a	100760742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 159, member B	Fam159b	100759831	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
family with sequence similarity 160, member A1	Fam160a1	100751310	0.01	0.00	0.01	0.00	0.00	0.00	3.04	0.00	3.73	1.16	0.00	0.93
family with sequence similarity 160, member A2	Fam160a2	100752778	12.26	11.49	11.99	9.88	7.95	8.73	1209.19	1151.11	1203.58	982.76	784.52	874.85
family with sequence similarity 160, member B1	Fam160b1	100768890	8.68	9.10	9.78	10.59	10.41	9.99	734.47	743.92	824.75	894.69	870.42	862.70
family with sequence similarity 160, member B2	Fam160b2	100750824	10.57	10.49	10.87	10.01	8.23	8.85	1213.74	1178.56	1238.36	1122.99	919.07	1006.64

family with sequence similarity 161, member A	Fam161a	100770716	5.12	5.35	7.62	7.41	8.72	8.27	449.65	473.07	704.26	690.72	806.25	749.61
family with sequence similarity 161, member B	Fam161b	100754415	4.97	5.97	5.23	5.93	6.21	7.87	299.26	365.10	319.22	356.95	364.32	457.99
family with sequence similarity 162, member A	Fam162a	100770984	46.02	44.92	53.40	68.90	63.81	63.07	516.49	488.63	585.02	713.89	670.67	681.37
family with sequence similarity 162, member B	Fam162b	100773450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 163, member A	Fam163a	100752117	0.06	0.10	0.00	0.00	0.00	0.00	3.80	6.41	0.00	0.00	0.00	0.93
family with sequence similarity 163, member B	Fam163b	100760830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 166, member A	Fam166a	100751030	0.09	0.00	0.00	0.00	0.04	0.00	3.04	0.92	2.48	3.48	2.07	1.87
family with sequence similarity 166, member B	Fam166b	100757125	0.63	0.57	0.15	0.32	0.49	0.55	22.79	17.39	4.97	11.59	15.52	16.82
family with sequence similarity 167, member A	Fam167a	100755242	0.22	0.24	0.03	0.00	0.05	0.05	21.27	21.05	3.73	1.16	4.14	4.67
family with sequence similarity 167, member B	Fam167b	100753020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 168, member A	Fam168a	100752186	14.61	15.14	13.81	14.45	15.66	16.31	1262.35	1292.03	1203.58	1236.57	1314.43	1418.83
family with sequence similarity 168, member B	Fam168b	100771076	49.09	49.43	48.92	48.41	51.25	51.33	5996.56	6067.59	6051.45	5931.35	6240.97	6330.52
family with sequence similarity 169, member A	Fam169a	100756076	4.11	4.18	4.06	4.96	4.90	4.66	711.69	713.73	725.38	873.83	842.48	829.05
family with sequence similarity 169, member B	Fam169b	100769400	0.02	0.00	0.00	0.03	0.06	0.10	3.80	1.83	1.24	1.16	6.21	4.67
family with sequence similarity 170, member A	Fam170a	100772259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 170, member B	Fam170b	100757364	0.09	0.00	0.00	0.00	0.00	0.00	3.04	1.83	1.24	1.16	0.00	0.93
family with sequence similarity 171, member A1	Fam171a1	100756305	14.52	13.70	14.92	15.55	16.20	15.73	1330.71	1281.05	1394.86	1446.33	1518.32	1479.58
family with sequence similarity 171, member A2	Fam171a2	100762527	8.00	7.70	5.63	3.22	1.61	2.15	385.09	382.48	273.26	163.41	83.83	118.70
family with sequence similarity 171, member B	Fam171b	100752911	0.00	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
family with sequence similarity 172, member A	Fam172a	100752273	49.54	49.18	55.65	53.25	52.40	53.45	941.83	950.72	1037.14	983.92	1013.25	1015.05
family with sequence similarity 173, member A	Fam173a	100773224	7.24	6.29	11.28	6.16	4.50	5.94	292.42	271.76	396.23	280.46	180.09	221.52
family with sequence similarity 173, member B	Fam173b	100759315	7.70	7.59	6.20	5.84	6.27	6.44	277.99	279.09	221.09	225.99	230.80	228.06
family with sequence similarity 174, member B	Fam174b	103162425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 175, member B	Fam175b	100770738	22.91	23.49	23.38	25.01	25.79	23.98	1917.84	1981.05	1981.13	2105.76	2164.16	2039.45
family with sequence similarity 177, member A1	Fam177a1	100753175	14.32	14.00	13.17	13.87	17.09	15.04	1028.42	995.56	963.86	1002.47	1211.97	1089.82
family with sequence similarity 177, member B	Fam177b	100755036	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 178, member A	Fam178a	100756312	8.23	9.10	9.51	10.28	12.57	11.12	1511.48	1644.32	1700.42	1854.27	2223.15	1972.15

family with sequence similarity 178, member B	Fam178b	100768604	0.05	0.06	0.03	0.00	0.02	0.00	2.28	2.75	1.24	2.32	2.07	0.93
family with sequence similarity 179, member A	Fam179a	100760659	0.04	0.02	0.00	0.00	0.02	0.01	3.04	3.66	0.00	1.16	2.07	0.93
family with sequence similarity 179, member B	Fam179b	100756381	6.51	6.26	6.75	8.24	9.18	8.36	1141.59	1114.51	1207.31	1447.49	1632.17	1512.30
family with sequence similarity 180, member A	Fam180a	100773015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 180, member B	Fam180b	100763927	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 181, member A	Fam181a	100767008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 183, member A	Fam183a	100768821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 184, member A	Fam184a	100767811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 184, member B	Fam184b	100768354	0.01	0.01	0.02	0.00	0.00	0.00	1.52	0.92	2.48	1.16	3.10	0.93
family with sequence similarity 185, member A	Fam185a	100761675	1.39	1.95	1.49	1.83	2.44	2.13	85.83	129.93	83.22	112.42	141.79	136.46
family with sequence similarity 186, member A	Fam186a	100774788	0.26	0.29	0.24	0.29	0.31	0.35	175.45	198.56	180.10	250.33	207.00	255.16
family with sequence similarity 186, member B	Fam186b	100766940	0.01	0.01	0.00	0.01	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
family with sequence similarity 188, member A	Fam188a	100769292	9.56	9.87	9.97	10.64	11.90	11.98	689.66	707.32	727.86	771.84	838.34	801.95
family with sequence similarity 188, member B	Fam188b	100773513	3.21	3.82	3.65	3.85	2.95	3.59	271.16	322.09	314.25	332.61	263.92	308.44
family with sequence similarity 189, member A1	Fam189a1	100764965	0.18	0.14	0.14	0.16	0.22	0.22	21.27	18.30	17.39	18.54	27.94	25.24
family with sequence similarity 189, member A2	Fam189a2	100759969	0.67	0.58	0.35	0.51	0.55	0.64	44.05	39.35	23.60	31.29	37.26	42.99
family with sequence similarity 189, member B	Fam189b	100756337	0.28	0.23	0.15	0.15	0.14	0.10	28.10	20.13	14.91	13.91	11.38	14.02
family with sequence similarity 192, member A	Fam192a	100759431	41.30	41.14	51.52	47.99	47.98	52.41	1495.53	1477.78	1805.99	1693.18	1603.19	1777.74
family with sequence similarity 193, member A	Fam193a	100769601	7.72	7.52	6.90	7.57	6.33	6.34	1171.97	1155.69	1052.05	1154.28	962.54	966.45
family with sequence similarity 193, member B	Fam193b	100770223	6.62	6.67	6.96	5.40	4.54	4.49	745.87	768.63	789.97	611.91	501.97	525.28
family with sequence similarity 195, member A	Fam195a	100759898	14.91	13.78	19.23	13.86	6.55	9.36	286.35	261.70	360.21	258.44	116.95	165.44
family with sequence similarity 195, member B	Fam195b	100756025	24.66	22.53	13.20	10.31	5.58	5.95	2934.86	2746.02	1614.71	1243.52	666.53	715.02
family with sequence similarity 196, member A	Fam196a	100751885	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 196, member B	Fam196b	100756585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 198, member A	Fam198a	100766100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 198, member B	Fam198b	100764048	7.17	7.98	9.42	11.84	10.84	9.63	804.35	895.82	1058.26	1322.33	1205.76	1080.48
family with sequence similarity 199, X-linked	Fam199x	100757918	15.45	16.33	16.75	18.10	16.45	16.96	751.18	787.84	848.35	916.71	854.90	864.57

family with sequence similarity 19 (chemokine (C-C motif)-like), member A1	Fam19a1	100757363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 19 (chemokine (C-C motif)-like), member A2	Fam19a2	100759893	0.01	0.04	0.00	0.02	0.01	0.01	0.76	4.58	0.00	1.16	1.03	0.93
family with sequence similarity 19 (chemokine (C-C motif)-like), member A3	Fam19a3	100751401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 19 (chemokine (C-C motif)-like), member A4	Fam19a4	100760241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 203, member A	Fam203a	100764479	20.68	17.64	23.71	21.36	19.40	20.82	960.82	854.64	1130.30	990.88	917.00	958.04
family with sequence similarity 204, member A	Fam204a	100751254	12.67	11.37	9.01	10.64	11.34	10.02	675.23	635.95	544.03	591.05	618.92	563.61
family with sequence similarity 206, member A	Fam206a	100768046	22.53	23.12	21.25	21.79	23.51	21.85	968.41	1009.28	939.02	927.14	1020.50	942.15
family with sequence similarity 207, member A	Fam207a	100765418	19.84	18.29	20.28	17.01	12.29	12.36	971.45	906.80	1021.00	823.99	626.17	640.25
family with sequence similarity 208, member A	Fam208a	100752192	2.08	2.14	1.92	2.01	2.49	1.97	309.89	317.52	283.20	299.00	357.07	299.09
family with sequence similarity 208, member B	Fam208b	100766168	13.40	13.08	14.15	17.66	17.58	16.50	3467.30	3403.92	3712.60	4613.66	4558.08	4329.39
family with sequence similarity 20, member A	Fam20a	100750670	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.93
family with sequence similarity 20, member B	Fam20b	100772950	23.97	24.41	22.32	23.51	26.40	25.09	2984.99	3074.51	2813.33	2965.68	3307.82	3117.12
family with sequence similarity 20, member C	Fam20c	100771796	2.10	2.20	2.34	2.45	2.06	2.33	143.55	150.98	166.44	162.25	145.93	164.50
family with sequence similarity 210, member A	Fam210a	100758002	3.96	3.83	3.74	4.03	4.94	4.21	644.85	635.95	613.59	666.38	789.69	686.05
family with sequence similarity 210, member B	Fam210b	100764549	12.19	13.31	12.95	12.92	17.03	15.03	1086.90	1195.03	1188.68	1142.70	1498.66	1338.45
family with sequence similarity 212, member A	Fam212a	100759700	1.26	1.35	1.75	1.12	0.81	0.97	34.18	36.60	49.68	31.29	21.73	26.17
family with sequence similarity 212, member B	Fam212b	100751785	1.25	1.64	0.31	0.46	0.57	0.50	150.39	193.99	37.26	55.63	67.27	58.88
family with sequence similarity 213, member A	Fam213a	100759727	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 213, member B	Fam213b	100755514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 214, member A	Fam214a	100753759	1.89	1.71	1.88	2.03	2.77	2.83	210.39	194.90	221.09	234.10	305.32	322.46
family with sequence similarity 214, member B	Fam214b	100769112	1.42	1.46	0.94	0.91	0.91	0.86	144.31	141.83	91.91	98.51	104.53	96.27
family with sequence similarity 216, member A	Fam216a	100751529	36.60	37.80	33.61	37.75	39.43	40.26	1054.24	1148.37	980.01	1067.37	1157.11	1136.56
family with sequence similarity 216, member B	Fam216b	100771008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 217, member A	Fam217a	100760256	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 217, member B	Fam217b	100771062	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

family with sequence similarity 219, member A	Fam219a	100770378	0.58	0.80	0.49	1.69	0.83	0.95	12.91	20.13	14.91	26.66	21.73	19.63
family with sequence similarity 219, member B	Fam219b	100766049	25.14	24.56	34.41	34.60	33.44	35.19	2077.34	2015.82	2807.12	2808.06	2709.59	2825.51
family with sequence similarity 21, member C	Fam21c	100689255	21.97	23.17	28.85	32.91	32.70	31.98	2937.14	3072.68	3847.99	4282.21	4231.02	4209.75
family with sequence similarity 220, member A	Fam220a	100765308	30.86	32.25	33.55	35.04	39.99	38.63	1574.52	1652.55	1696.69	1784.74	2027.54	1949.72
family with sequence similarity 221, member A	Fam221a	100762448	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
family with sequence similarity 221, member B	Fam221b	100772069	0.10	0.07	0.02	0.01	0.03	0.08	11.39	11.90	4.97	6.95	4.14	10.28
family with sequence similarity 222, member A	Fam222a	100751362	0.03	0.07	0.04	0.03	0.06	0.00	2.28	4.58	2.48	3.48	4.14	0.00
family with sequence similarity 222, member B	Fam222b	100763154	5.25	5.26	5.69	4.99	4.32	4.32	773.97	769.54	863.25	727.80	619.96	644.92
family with sequence similarity 227, member A	Fam227a	100751092	0.50	0.81	3.29	3.19	1.17	1.31	26.58	37.52	124.21	121.69	70.38	77.58
family with sequence similarity 227, member B	Fam227b	100761884	0.44	0.31	0.26	0.15	0.33	0.32	16.71	14.64	9.94	6.95	16.56	15.89
family with sequence similarity 228, member A	Fam228a	100770212	1.13	1.01	0.89	0.70	0.40	0.33	95.70	84.18	77.01	57.95	31.05	27.11
family with sequence similarity 229, member A	Fam229a	103163721	0.00	0.00	0.00	0.00	0.00	0.00	6.84	8.24	12.42	3.48	2.07	1.87
family with sequence similarity 229, member B	Fam229b	100757032	10.40	9.88	5.85	6.58	8.40	8.93	152.67	146.41	89.43	96.19	104.53	119.64
family with sequence similarity 25, member A	Fam25a	100774241	29.85	30.06	12.31	10.09	3.63	5.20	282.55	312.94	119.24	97.35	38.29	43.93
family with sequence similarity 26, member D	Fam26d	100770005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 26, member E	Fam26e	100774191	0.23	0.13	0.24	0.20	0.22	0.13	12.91	7.32	13.66	13.91	12.42	7.48
family with sequence similarity 26, member F	Fam26f	100774476	0.77	0.76	0.38	0.44	0.45	0.61	9.11	12.81	6.21	8.11	6.21	8.41
family with sequence similarity 32, member A	Fam32a	100759796	66.27	62.81	70.52	67.19	60.62	66.47	1939.86	1856.60	2045.72	1897.15	1725.32	1877.75
family with sequence similarity 35, member A	Fam35a	100773947	4.66	4.77	5.43	6.36	6.91	6.31	474.71	491.37	588.75	667.54	715.18	659.88
family with sequence similarity 3, member A	Fam3a	100762082	21.57	20.80	19.30	16.22	14.09	15.52	1231.21	1198.69	1090.55	912.07	778.31	860.83
family with sequence similarity 3, member B	Fam3b	100764355	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
family with sequence similarity 3, member C	Fam3c	100764415	29.22	27.55	25.67	26.51	27.48	27.58	1792.51	1711.11	1597.32	1584.24	1668.40	1693.62
family with sequence similarity 3, member D	Fam3d	100765173	0.06	0.14	0.05	0.00	0.00	0.00	3.04	3.66	1.24	0.00	0.00	0.00
family with sequence similarity 43, member A	Fam43a	100759560	3.54	3.60	1.80	1.31	1.03	1.01	201.28	206.80	104.34	73.01	58.99	57.01
family with sequence similarity 45, member A	Fam45a	100752411	8.71	9.79	8.49	10.53	11.54	10.98	578.01	654.25	585.02	703.46	752.44	717.83
family with sequence similarity 46, member A	Fam46a	100751836	2.11	2.89	1.09	1.23	1.34	1.13	159.50	212.29	84.46	95.03	103.50	86.92
family with sequence similarity 46, member B	Fam46b	100771132	0.03	0.03	0.00	0.02	0.00	0.00	1.52	1.83	0.00	1.16	0.00	0.00

family with sequence similarity 46, member C	Fam46c	100770809	0.05	0.06	0.08	0.04	0.03	0.13	1.52	1.83	2.48	2.32	2.07	3.74
family with sequence similarity 46, member D	Fam46d	100755293	2.07	2.04	1.98	2.22	2.44	2.30	486.11	482.22	475.72	521.51	570.28	541.17
family with sequence similarity 49, member A	Fam49a	100756339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 50, member A	Fam50a	100759186	7.27	6.86	6.73	6.57	7.42	6.73	542.31	516.08	504.29	504.13	557.86	509.39
family with sequence similarity 50, member B	Fam50b	100759390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 53, member A	Fam53a	100766117	19.56	19.28	22.71	17.87	14.83	15.74	1182.60	1147.45	1382.44	1124.15	947.01	1029.07
family with sequence similarity 53, member B	Fam53b	100771312	3.42	3.43	3.68	3.07	2.63	2.94	489.14	504.18	541.55	454.30	370.53	429.95
family with sequence similarity 53, member C	Fam53c	100773129	5.87	5.67	5.73	4.62	3.64	4.11	294.70	278.17	293.13	231.78	166.63	193.48
family with sequence similarity 57, member A	Fam57a	100763695	11.60	11.08	14.88	15.31	18.48	19.08	630.42	613.07	799.90	812.40	982.20	999.16
family with sequence similarity 57, member B	Fam57b	100772583	0.17	0.10	0.09	0.13	0.04	0.00	7.60	4.58	2.48	3.48	2.07	1.87
family with sequence similarity 58, member A	Fam58a	100769050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 60, member A	Fam60a	100760112	21.93	22.62	26.13	25.27	26.65	27.05	1589.72	1635.16	1890.46	1826.46	1898.16	1958.13
family with sequence similarity 63, member A	Fam63a	100766575	24.30	23.96	29.91	29.36	25.94	27.03	1204.63	1195.95	1505.41	1479.94	1373.43	1434.72
family with sequence similarity 63, member B	Fam63b	100757261	5.61	5.56	4.41	5.08	6.52	6.13	1315.52	1280.13	1037.14	1192.53	1491.42	1432.85
family with sequence similarity 64, member A	Fam64a	100755771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 65, member A	Fam65a	100762946	18.60	16.83	21.21	20.71	17.35	17.14	2195.07	1981.96	2506.53	2437.21	2018.22	2043.19
family with sequence similarity 65, member B	Fam65b	100763872	0.00	0.02	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
family with sequence similarity 65, member C	Fam65c	100757599	0.08	0.08	0.08	0.02	0.04	0.04	16.71	11.90	14.91	2.32	5.17	7.48
family with sequence similarity 69, member A	Fam69a	100764055	3.51	3.26	4.43	4.48	5.48	5.60	163.30	157.39	192.52	181.95	219.42	246.75
family with sequence similarity 69, member B	Fam69b	100754761	0.02	0.05	0.00	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	0.00
family with sequence similarity 69, member C	Fam69c	100775103	0.04	0.22	0.02	0.00	0.02	0.00	5.32	14.64	1.24	0.00	1.03	0.00
family with sequence similarity 71, member A	Fam71a	100763531	0.02	0.02	0.03	0.10	0.07	0.06	1.52	0.92	1.24	4.64	4.14	2.80
family with sequence similarity 71, member B	Fam71b	100767497	0.03	0.08	0.03	0.00	0.07	0.04	1.52	5.49	3.73	0.00	3.10	2.80
family with sequence similarity 71, member D	Fam71d	100756714	0.02	0.02	0.03	0.00	0.00	0.00	3.04	4.58	1.24	0.00	2.07	1.87
family with sequence similarity 71, member E1	Fam71e 1	100756180	0.71	0.71	0.27	0.20	0.06	0.42	19.75	19.22	9.94	6.95	1.03	11.22
family with sequence similarity 71, member E2	Fam71e 2	100773246	0.04	0.02	0.04	0.00	0.00	0.00	2.28	0.92	2.48	1.16	0.00	0.93
family with sequence similarity 71, member F1	Fam71f 1	100760841	0.36	0.45	0.30	0.28	0.15	0.11	28.86	31.11	24.84	22.02	20.70	25.24

family with sequence similarity 71, member F2	Fam71f2	100750641	0.21	0.15	0.18	0.23	0.12	0.18	12.91	9.15	11.18	15.07	8.28	11.22
family with sequence similarity 72, member A	Fam72a	100757979	3.39	3.69	2.57	2.62	3.50	3.19	136.72	141.83	105.58	103.14	132.48	129.92
family with sequence similarity 73, member A	Fam73a	100758334	0.02	0.01	0.01	0.01	0.08	0.02	3.04	1.83	3.73	2.32	8.28	1.87
family with sequence similarity 73, member B	Fam73b	100753105	14.32	13.49	19.18	14.80	11.25	12.01	763.34	706.41	1014.78	756.77	575.45	668.29
family with sequence similarity 76, member B	Fam76b	100764937	18.28	18.74	15.93	18.86	20.71	20.04	1870.75	1937.13	1675.58	1941.19	2111.37	2045.99
family with sequence similarity 78, member A	Fam78a	100753079	0.79	0.47	0.34	0.49	0.64	0.65	34.94	21.96	19.87	20.86	28.98	28.97
family with sequence similarity 78, member B	Fam78b	100760702	7.19	7.31	11.30	11.85	11.02	10.23	825.62	835.43	1324.06	1377.96	1267.86	1194.51
family with sequence similarity 81, member A	Fam81a	100774523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 81, member B	Fam81b	100759412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 83, member A	Fam83a	100760967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 83, member B	Fam83b	100761983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 83, member C	Fam83c	100761734	4.55	4.59	7.83	7.67	6.64	7.54	547.63	552.68	937.78	923.66	784.52	911.30
family with sequence similarity 83, member D	Fam83d	100761533	11.95	11.61	12.45	13.73	14.75	13.74	748.91	734.77	786.24	873.83	939.77	873.92
family with sequence similarity 83, member E	Fam83e	100756463	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.93
family with sequence similarity 83, member F	Fam83f	100771028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 83, member H	Fam83h	100754245	0.34	0.30	0.02	0.01	0.02	0.02	41.77	39.35	2.48	2.32	3.10	2.80
family with sequence similarity 84, member B	Fam84b	100765324	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 86, member A	Fam86a	100772867	26.49	25.10	26.48	26.40	20.17	21.43	1034.49	992.81	1023.48	1004.78	780.38	844.94
family with sequence similarity 89, member A	Fam89a	100772991	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
family with sequence similarity 89, member B	Fam89b	100771743	19.58	19.33	21.25	16.84	14.19	15.06	891.70	862.88	953.92	756.77	635.48	701.00
family with sequence similarity 8, member A1	Fam8a1	100761518	31.21	33.07	32.58	37.99	45.10	41.44	2927.26	3128.50	3084.10	3576.43	4202.04	3908.79
family with sequence similarity 90, member A1	Fam90a1	103164082	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 91, member A1	Fam91a1	103158823	15.13	11.81	9.64	10.26	9.35	11.86	323.56	266.27	186.31	206.29	212.17	241.14
family with sequence similarity 92, member A1	Fam92a1	100762247	20.87	21.99	23.31	27.12	30.34	25.06	633.46	654.25	730.35	823.99	924.24	788.86
family with sequence similarity 92, member B	Fam92b	103159421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
family with sequence similarity 96, member A	Fam96a	100773305	40.65	44.58	40.22	36.25	36.77	36.75	1409.70	1561.05	1418.46	1271.34	1281.31	1285.17
family with sequence similarity 96, member B	Fam96b	100760527	18.77	17.10	16.79	16.21	14.71	14.73	805.11	731.11	736.56	686.08	647.90	629.97

family with sequence similarity 98, member A	Fam98a	100764161	64.83	63.41	69.52	73.15	74.58	75.61	4946.12	4853.34	5311.16	5562.82	5651.03	5779.06
family with sequence similarity 98, member B	Fam98b	100762330	84.59	87.06	81.83	82.51	85.23	84.65	2230.77	2319.61	2163.72	2149.80	2186.93	2175.91
family with sequence similarity 98, member C	Fam98c	100765434	9.05	8.81	8.63	5.32	4.07	4.06	303.06	284.58	293.13	191.22	178.02	195.35
FANCD2/FANCI-associated nuclease 1	Fan1	100762441	7.63	7.40	8.42	9.15	8.99	9.21	853.72	831.77	942.74	1008.26	986.34	1016.92
Fanconi anemia, complementation group A	Fanca	100761220	5.21	5.29	6.22	6.54	7.07	7.37	784.60	799.74	943.99	974.65	1054.65	1108.52
Fanconi anemia, complementation group B	Fancb	100750774	3.50	3.69	3.82	4.39	5.69	4.50	330.40	350.46	363.93	428.80	542.33	443.03
Fanconi anemia, complementation group C	Fancc	100753982	8.64	6.99	9.21	11.28	11.12	9.57	171.66	146.41	204.94	197.02	210.10	186.93
Fanconi anemia, complementation group D2	Fancd2	100757761	19.26	19.98	18.81	21.02	25.63	23.93	3072.34	3229.15	2972.31	3351.60	4045.76	3755.50
FANCD2 opposite strand	Fancd2 os	100758053	0.15	0.09	0.14	0.18	0.20	0.25	5.32	4.58	3.73	4.64	5.17	9.35
Fanconi anemia, complementation group E	Fance	100765848	12.96	12.94	15.99	11.79	7.14	7.90	710.93	704.58	903.00	669.86	396.40	443.97
Fanconi anemia, complementation group F	Fancf	100765540	7.88	7.83	7.79	8.85	8.98	8.43	330.40	331.24	326.67	368.54	369.49	353.31
Fanconi anemia, complementation group G	Fancg	100689273	3.57	3.70	4.88	4.55	4.51	5.32	249.89	273.60	360.21	334.93	330.16	376.67
Fanconi anemia, complementation group I	Fanci	100755795	10.56	11.30	10.27	12.67	14.69	14.38	1328.43	1424.71	1275.62	1579.61	1834.00	1795.50
Fanconi anemia, complementation group L	Fancl	100759885	14.17	14.77	10.86	12.37	13.92	15.83	527.88	553.60	402.44	457.77	536.12	557.06
Fanconi anemia, complementation group M	Fancm	100768967	3.41	3.50	3.68	3.81	4.70	4.48	633.46	661.57	695.57	717.37	867.32	833.73
fibronectin type III and ankyrin repeat domains 1	Fank1	100760059	0.57	0.44	0.44	0.38	0.91	0.61	22.03	16.47	17.39	13.91	35.19	22.43
fibroblast activation protein, alpha	Fap	100767303	0.05	0.03	0.00	0.00	0.03	0.01	3.80	3.66	0.00	0.00	2.07	1.87
fatty acyl CoA reductase 1	Far1	100761128	23.05	23.09	19.71	21.95	23.43	22.35	2932.58	2923.53	2522.68	2774.45	2964.20	2830.18
FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	Farp1	100761407	11.80	12.18	13.45	13.99	12.45	12.28	1598.07	1690.07	1885.49	1916.85	1690.13	1668.39
FERM, RhoGEF and pleckstrin domain protein 2	Farp2	100772725	1.25	1.21	1.19	1.08	1.54	1.38	150.39	140.92	111.79	98.51	154.21	150.48
phenylalanyl-tRNA synthetase 2, mitochondrial	Fars2	100761130	31.91	30.77	41.44	39.41	37.26	39.60	1218.30	1162.09	1538.95	1421.99	1380.67	1429.11
phenylalanyl-tRNA synthetase, alpha subunit	Farsa	100763673	72.23	65.81	74.89	67.82	53.15	61.41	3916.94	3650.98	4192.04	3691.16	2937.29	3274.15
phenylalanyl-tRNA synthetase, beta subunit	Farsb	100760139	74.16	74.39	71.26	77.13	86.80	81.52	4326.34	4379.35	4144.84	4387.67	4979.32	4623.81
Fas cell surface death receptor	Fas	100762537	7.55	7.56	4.74	6.09	6.11	5.99	585.60	577.39	366.42	460.09	454.36	449.58
Fas ligand (TNF superfamily, member 6)	Faslg	100773293	0.00	0.00	0.00	0.00	0.00	0.05	0.76	0.00	0.00	0.00	0.00	0.93
fatty acid synthase	Fasn	100689207	30.70	28.96	11.11	9.54	5.03	5.77	7894.65	7581.97	2935.05	2485.88	1346.52	1505.75
Fas-activated serine/threonine kinase	Fastk	100762130	14.07	14.05	17.55	15.14	9.35	10.72	903.09	902.22	1158.87	954.95	616.85	710.35
FAST kinase domains 1	Fastkd1	100763353	9.85	9.09	9.32	9.43	10.34	9.31	1010.19	972.68	1006.09	963.06	1107.44	963.64
FAST kinase domains 2	Fastkd2	100757409	24.54	25.34	27.24	29.45	30.14	29.53	1673.26	1753.20	1842.01	1977.12	2021.33	1970.28

FAST kinase domains 3	Fastkd3	100772361	9.41	8.38	9.84	10.43	10.15	10.45	645.61	570.98	663.27	683.76	668.60	695.39
FAST kinase domains 5	Fastkd5	103163403	9.48	8.78	9.75	10.66	10.56	9.88	767.13	719.22	804.87	878.46	863.18	812.23
FAT atypical cadherin 1	Fat1	100766718	24.55	24.97	25.33	29.12	32.28	31.12	10874.32	11111.25	11326.59	12970.63	14234.17	13838.72
FAT atypical cadherin 2	Fat2	100766386	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
FAT atypical cadherin 3	Fat3	100754211	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
FAT atypical cadherin 4	Fat4	100769423	0.11	0.11	0.01	0.01	0.01	0.01	57.72	57.65	3.73	4.64	5.17	3.74
fetal and adult testis expressed 1	Fate1	103162528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed	Fau	100689400	1020.52	960.92	982.90	744.37	549.35	635.16	12985.08	12195.57	12055.69	8077.67	5592.03	6266.96
failed axon connections homolog (Drosophila)	Faxc	100765533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid hydroxylase domain containing 2	Faxdc2	100767373	1.18	1.06	1.14	1.19	1.53	1.17	69.12	74.12	79.49	75.33	104.53	77.58
Fas (TNFRSF6) binding factor 1	Fbf1	100758866	7.08	7.02	9.51	8.21	7.13	7.53	1180.32	1164.84	1582.42	1359.41	1149.87	1225.35
fibrillarin	Fbl	100765730	215.49	196.79	171.62	145.41	133.62	143.25	6613.31	6160.01	5369.54	4447.93	4160.64	4372.38
filamin binding LIM protein 1	Fblim1	100774941	4.13	4.14	3.55	2.82	2.70	2.92	210.39	225.10	195.01	158.77	148.00	166.37
fibulin 1	Fbln1	100757176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibulin 2	Fbln2	100763343	0.05	0.05	0.02	0.00	0.00	0.01	4.56	4.58	2.48	0.00	0.00	0.93
fibulin 5	Fbln5	100759853	0.03	0.05	0.02	0.02	0.04	0.00	1.52	2.75	2.48	1.16	2.07	0.00
fibulin 7	Fbln7	100755635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibrillin 1	Fbn1	100761283	0.10	0.10	0.03	0.05	0.05	0.04	31.14	28.37	7.45	17.38	14.49	14.02
fibrillin 2	Fbn2	100769316	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
fructose-1,6-bisphosphatase 2	Fbp2	100761248	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
fibrosin	Fbrs	100754050	10.12	9.05	6.93	3.44	1.40	1.79	546.11	489.54	453.36	281.62	175.95	214.97
fibrosin-like 1	Fbrsl1	100774092	2.18	1.68	2.03	1.42	0.68	0.91	233.18	183.92	203.70	150.66	75.55	93.47
F-box and leucine-rich repeat protein 12	Fbxl12	100764456	7.78	8.12	8.27	5.50	5.55	5.95	424.58	454.77	454.60	308.27	292.90	313.11
F-box and leucine-rich repeat protein 13	Fbxl13	100761383	0.08	0.08	0.12	0.05	0.15	0.07	10.63	7.32	8.69	6.95	19.66	13.09
F-box and leucine-rich repeat protein 14	Fbxl14	100755365	11.74	12.64	13.12	11.04	10.83	10.89	802.83	863.79	917.90	755.62	749.33	766.43
F-box and leucine-rich repeat protein 15	Fbxl15	100752453	6.68	4.81	5.45	3.74	2.00	2.36	199.76	148.24	154.02	107.78	54.85	67.30
F-box and leucine-rich repeat protein 16	Fbxl16	100772347	11.70	11.87	13.44	12.04	9.15	9.41	1116.52	1133.73	1278.11	1131.11	844.55	890.74
F-box and leucine-rich repeat protein 17	Fbxl17	100757296	32.57	31.56	34.03	36.42	37.20	37.73	1601.11	1507.06	1741.41	1715.20	1802.95	1769.33
F-box and leucine-rich repeat protein 18	Fbxl18	100767914	9.25	8.81	9.63	7.14	5.02	5.96	865.12	840.92	922.87	679.13	481.27	574.82
F-box and leucine-rich repeat protein 19	Fbxl19	100757739	14.09	14.02	15.70	11.90	8.30	9.29	1298.81	1314.90	1454.48	1100.97	767.96	872.05
F-box and leucine-rich repeat protein 2	Fbxl2	100766573	2.71	3.06	2.88	2.46	2.92	3.04	243.81	277.26	269.53	225.99	262.89	268.25
F-box and leucine-rich repeat protein 20	Fbxl20	100767550	14.42	14.00	11.97	12.35	12.22	14.27	1331.47	1303.01	1099.25	1141.54	1161.25	1330.03
F-box and leucine-rich repeat protein 21	Fbxl21	100753212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box and leucine-rich repeat protein 22	Fbxl22	103163837	1.40	1.43	1.68	1.55	1.71	1.98	158.74	161.96	193.77	180.79	196.65	228.06

F-box and leucine-rich repeat protein 3	Fbxl3	100761851	26.55	26.23	23.73	27.44	28.70	27.02	1782.64	1762.35	1604.78	1829.93	1907.48	1822.61
F-box and leucine-rich repeat protein 4	Fbxl4	100764957	17.62	16.54	18.02	19.15	20.85	19.53	609.15	573.73	603.65	665.22	711.04	674.83
F-box and leucine-rich repeat protein 5	Fbxl5	100768201	9.19	9.35	9.35	10.75	10.37	11.34	504.33	506.01	540.31	620.02	605.47	653.33
F-box and leucine-rich repeat protein 6	Fbxl6	100762650	9.79	9.30	14.42	11.44	8.82	9.58	591.68	567.32	847.10	664.06	517.49	565.48
F-box and leucine-rich repeat protein 7	Fbxl7	100755012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box and leucine-rich repeat protein 8	Fbxl8	100758388	2.85	2.97	2.73	1.59	1.56	1.09	157.98	158.30	141.60	90.40	87.97	63.56
F-box protein 10	Fbxo10	100751576	0.65	0.64	0.75	0.57	0.55	0.58	73.68	68.63	77.01	57.95	61.06	64.49
F-box protein 11	Fbxo11	100771372	29.24	28.09	29.10	31.40	37.01	32.67	2887.01	2787.19	2891.58	3107.06	3632.80	3236.76
F-box protein 15	Fbxo15	100750915	2.68	2.42	1.98	1.54	1.90	1.96	154.19	135.42	110.55	86.92	114.88	124.31
F-box protein 16	Fbxo16	100759298	0.04	0.03	0.00	0.00	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.93
F-box protein, helicase, 18	Fbxo18	100765086	29.95	30.57	31.53	33.10	35.60	36.68	3111.83	3205.36	3317.61	3380.57	3632.80	3662.97
F-box protein 2	Fbxo2	100762647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box protein 21	Fbxo21	100752874	28.03	27.40	30.05	29.62	28.58	31.42	3082.97	3047.98	3352.39	3284.38	3158.78	3443.32
F-box protein 22	Fbxo22	100756994	32.93	30.64	33.22	32.97	36.43	34.21	1111.21	1076.99	1150.17	1095.18	1222.32	1110.39
F-box protein 24	Fbxo24	100755996	0.38	0.55	0.32	0.41	0.26	0.32	41.02	53.99	37.26	48.67	36.22	41.13
F-box protein 25	Fbxo25	100758634	8.78	8.42	8.16	9.56	11.05	11.71	492.18	475.82	474.48	548.17	631.34	648.66
F-box protein 27	Fbxo27	100770350	10.40	9.33	9.94	9.43	9.86	10.22	398.76	385.23	404.92	376.65	390.19	395.37
F-box protein 28	Fbxo28	100754171	17.42	18.03	18.72	17.92	19.96	20.82	2238.36	2356.21	2448.15	2306.25	2587.47	2704.00
F-box protein 3	Fbxo3	100755440	26.44	26.54	28.16	30.65	35.96	33.38	1762.89	1798.04	1917.78	2105.76	2431.18	2238.53
F-box protein 30	Fbxo30	100765066	4.60	4.47	5.13	5.97	5.54	5.34	519.52	510.59	581.30	669.86	617.89	599.12
F-box protein 31	Fbxo31	100756007	7.85	7.59	8.15	7.75	6.93	7.08	1063.35	1027.58	1105.46	1043.03	911.82	951.49
F-box protein 32	Fbxo32	103158884	16.57	16.00	12.29	13.96	14.14	14.03	715.49	703.66	540.31	598.00	607.54	620.62
F-box protein 33	Fbxo33	103160846	17.87	17.31	20.03	19.60	21.59	21.10	1334.51	1290.20	1494.23	1463.72	1569.04	1612.31
F-box protein 34	Fbxo34	100755456	11.81	11.97	12.95	12.92	13.62	12.47	972.21	990.07	1075.65	1065.05	1112.61	1029.07
F-box protein 36	Fbxo36	100753561	3.15	2.77	3.76	4.07	3.85	3.34	75.19	64.97	100.61	113.57	97.29	100.94
F-box protein 38	Fbxo38	100763577	9.19	9.15	9.64	10.66	11.52	11.55	1236.53	1245.36	1294.25	1439.38	1521.43	1543.14
F-box protein 39	Fbxo39	100754321	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
F-box protein 4	Fbxo4	100768716	10.99	11.41	12.07	11.51	12.39	11.78	495.98	506.01	541.55	509.92	554.75	534.63
F-box protein 40	Fbxo40	100769091	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

F-box protein 41	Fbxo41	100770848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box protein 42	Fbxo42	100751392	12.01	11.84	11.68	10.64	10.26	10.11	890.94	865.62	863.25	788.07	775.20	797.27
F-box protein 43	Fbxo43	100762936	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box protein 44	Fbxo44	100761288	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
F-box protein 45	Fbxo45	100761316	14.21	14.50	17.45	18.40	18.75	18.84	1487.94	1516.21	1835.80	1915.69	1939.56	1966.55
F-box protein 46	Fbxo46	103159278	4.78	3.67	4.06	2.14	1.21	1.44	193.68	165.62	191.28	107.78	66.24	92.53
F-box protein 47	Fbxo47	100757104	1.46	1.40	0.71	0.97	1.11	0.95	91.90	96.99	45.96	64.90	75.55	65.43
F-box protein 48	Fbxo48	100774875	0.75	0.78	0.70	0.44	0.40	0.58	31.14	33.86	36.02	27.81	33.12	33.65
F-box protein 5	Fbxo5	100773759	14.90	15.55	15.49	18.94	19.88	18.37	838.53	873.86	876.91	1075.48	1128.14	1036.55
F-box protein 6	Fbxo6	100762938	92.92	91.65	96.85	87.34	67.58	79.15	2650.03	2579.48	2728.86	2416.35	1901.27	2207.69
F-box protein 7	Fbxo7	100753632	21.92	20.34	21.81	22.69	21.22	21.69	1042.85	986.41	1037.14	1092.86	995.66	1021.59
F-box protein 8	Fbxo8	100754825	17.13	17.86	16.59	19.09	21.82	21.51	950.94	990.07	925.35	1034.92	1178.85	1182.36
F-box protein 9	Fbxo9	103159530	20.22	19.82	20.55	22.43	25.08	25.23	1105.13	1086.14	1130.30	1226.14	1345.48	1348.73
F-box and WD repeat domain containing 11	Fbxw11	100772242	26.06	25.63	27.05	28.12	29.05	31.29	2801.18	2796.34	2997.16	3118.65	3257.10	3491.93
F-box and WD repeat domain containing 12	Fbxw12	100763018	0.06	0.02	0.03	0.06	0.00	0.00	4.56	1.83	2.48	2.32	0.00	0.00
F-box and WD repeat domain containing 2	Fbxw2	100756088	37.19	35.06	43.38	45.97	46.27	45.25	1821.38	1667.19	2073.04	2153.27	2134.14	2215.17
F-box and WD repeat domain containing 4	Fbxw4	100751884	11.98	11.33	13.25	12.33	9.69	10.25	519.52	494.12	580.05	526.15	419.17	457.99
F-box and WD repeat domain containing 5	Fbxw5	100762398	26.46	25.19	29.10	29.44	22.68	27.09	1888.21	1778.83	2082.98	2081.42	1596.98	1893.64
F-box and WD repeat domain containing 7, E3 ubiquitin protein ligase	Fbxw7	100761759	6.01	5.36	5.32	6.25	6.33	5.96	704.85	640.52	633.46	732.44	745.19	708.48
F-box and WD repeat domain containing 8	Fbxw8	100752372	25.85	26.45	29.57	27.30	23.07	25.86	2078.86	2120.13	2434.49	2203.11	1901.27	2086.18
F-box and WD repeat domain containing 9	Fbxw9	100758460	7.39	7.38	8.27	6.59	5.50	5.81	429.14	440.13	500.56	395.19	329.13	348.63
Fc receptor, IgA, IgM, high affinity	Fcamr	100773580	0.02	0.00	0.03	0.00	0.00	0.00	1.52	0.00	1.24	0.00	1.03	0.93
Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	Fcer1g	100768356	0.17	0.27	0.09	0.00	0.23	0.21	7.60	9.15	1.24	4.64	7.24	5.61
Fc fragment of IgE, low affinity II, receptor for (CD23)	Fcer2	100769597	2.69	2.63	0.63	0.39	0.86	0.70	198.24	191.24	50.93	38.24	67.27	59.82
FCF1 rRNA-processing protein	Fcf1	100771331	56.92	55.38	56.31	56.60	62.17	62.16	1098.29	1117.26	1071.92	1085.91	1199.55	1159.93
Fc fragment of IgG, low affinity IIa, receptor (CD32)	Fcgr2a	103161891	12.51	12.34	12.93	14.23	14.71	15.12	766.38	747.58	787.48	871.51	892.16	918.78
Fc fragment of IgG, low affinity IIb, receptor (CD32)	Fcgr2b	103161893	0.31	0.28	0.12	0.04	0.00	0.03	11.39	6.41	1.24	1.16	0.00	0.00
Fc fragment of IgG, receptor, transporter, alpha	Fcgrt	100755637	19.95	18.32	9.60	7.46	5.18	5.49	826.38	775.03	404.92	326.82	212.17	242.08
FCH domain only 1	Fcho1	100772920	1.32	1.22	0.75	0.49	0.53	0.39	157.98	145.49	95.64	69.54	74.52	59.82
FCH domain only 2	Fcho2	100760398	5.99	5.79	7.43	9.71	10.22	9.26	856.76	840.00	1060.74	1362.89	1440.70	1312.28
FCH and double SH3 domains 1	Fchsd1	100752340	5.92	6.11	7.20	6.68	4.71	6.10	407.87	423.66	498.08	468.20	331.20	404.71

FCH and double SH3 domains 2	Fchsd2	100773820	4.58	4.48	4.41	5.04	5.97	5.62	546.11	540.78	510.50	602.64	694.48	647.73
Fc receptor-like 5	Fcrl5	100760293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fc receptor-like 6	Fcrl6	100755952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fc receptor-like A	Fcrla	100771125	0.03	0.11	0.10	0.05	0.17	0.04	1.52	2.75	3.73	3.48	8.28	2.80
Fc receptor-like B	Fcrlb	100771895	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
farnesyl-diphosphate farnesyltransferase 1	Fdft1	100689192	8.69	9.06	12.01	11.82	11.16	10.49	555.98	584.71	768.85	763.73	719.32	674.83
farnesyl diphosphate synthase	Fdps	100754883	48.65	45.38	72.14	72.64	72.13	72.17	2441.92	2318.69	3628.14	3613.51	3493.08	3553.61
ferredoxin 1	Fdx1	100751853	41.25	39.87	40.06	41.68	43.76	47.15	1027.66	985.49	980.01	978.13	1054.65	1131.88
ferredoxin 1-like	Fdx1l	100761259	35.36	37.86	36.87	28.04	15.39	17.54	1080.82	1155.69	1084.34	800.81	439.87	504.72
ferredoxin-fold anticodon binding domain containing 1	Fdxacb1	100771758	2.58	2.37	1.77	2.00	1.81	2.07	331.16	309.28	233.51	249.17	238.05	272.92
ferredoxin reductase	Fdxr	100773278	24.38	24.70	36.82	28.37	17.67	18.46	1345.14	1345.10	2025.84	1548.32	1001.87	1031.88
ferrochelatase	Fech	100764152	10.91	11.28	11.78	13.58	12.83	13.47	890.94	917.78	957.65	1113.72	1036.02	1101.04
fem-1 homolog a (C. elegans)	Fem1a	100769384	17.66	17.29	16.05	14.26	9.86	10.21	1490.22	1464.05	1376.23	1211.07	839.37	875.79
fem-1 homolog b (C. elegans)	Fem1b	100761263	28.05	28.53	31.47	35.89	36.51	34.67	4578.50	4661.18	5190.68	5946.42	5972.91	5691.20
fem-1 homolog c (C. elegans)	Fem1c	100760897	6.68	6.80	6.28	7.14	7.96	7.00	821.06	828.11	775.06	883.10	964.61	861.77
flap structure-specific endonuclease 1	Fen1	100756103	13.14	11.92	15.41	14.19	9.97	9.75	712.45	672.55	885.61	859.92	667.57	639.31
fer (fps/fes related) tyrosine kinase	Fer	100755838	7.72	8.25	7.30	8.45	10.10	9.39	1807.70	1909.67	1710.35	1964.37	2275.93	2139.46
fer-1-like 5 (C. elegans)	Fer1l5	100773388	0.40	0.38	0.32	0.39	0.24	0.27	148.11	140.92	127.93	147.18	76.59	91.60
Fer3-like bHLH transcription factor	Ferd3l	100758559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fermitin family member 1	Fermt1	100772109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fermitin family member 2	Fermt2	100762844	92.75	95.82	92.98	103.41	113.44	105.34	8730.14	9120.14	8909.49	9795.19	10752.47	10071.07
fermitin family member 3	Fermt3	100755790	0.01	0.00	0.02	0.02	0.00	0.02	4.56	0.00	1.24	3.48	1.03	0.93
feline sarcoma oncogene	Fes	100763153	0.58	0.59	0.79	0.93	1.60	1.36	54.69	53.99	94.40	83.44	156.28	136.46
fetuin B	Fetub	100764879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FEV (ETS oncogene family)	Fev	100750702	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fasciculation and elongation protein zeta 1 (zygin I)	Fez1	100751680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fasciculation and elongation protein zeta 2 (zygin II)	Fez2	100765737	74.33	77.30	78.08	88.20	102.67	100.75	3954.16	4156.08	4183.35	4690.15	5471.97	5259.39
FEZ family zinc finger 1	Fezf1	100750867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FEZ family zinc finger 2	Fezf2	100762796	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
free fatty acid receptor 1	Ffar1	100752326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
free fatty acid receptor 4	Ffar4	100752511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibrinogen alpha chain	Fga	100770138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibrinogen beta chain	Fgb	100770424	0.02	0.00	0.00	0.00	0.06	0.08	1.52	0.00	0.00	0.00	2.07	2.80
FYVE, RhoGEF and PH domain containing 1	Fgd1	100760862	8.37	8.61	10.45	9.45	7.69	7.80	952.46	938.82	1147.69	1045.35	822.81	861.77
FYVE, RhoGEF and PH domain containing 2	Fgd2	100754230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FYVE, RhoGEF and PH domain containing 3	Fgd3	100756063	3.38	3.39	3.73	3.51	2.76	3.49	448.89	439.22	495.59	464.73	360.18	450.51
FYVE, RhoGEF and PH domain containing 4	Fgd4	100756483	2.34	2.17	1.59	1.65	2.19	2.02	565.10	523.40	386.29	394.03	516.46	488.83
FYVE, RhoGEF and PH domain containing 5	Fgd5	100775006	0.29	0.25	0.18	0.16	0.11	0.16	60.00	53.07	43.47	31.29	19.66	30.84

FYVE, RhoGEF and PH domain containing 6	Fgd6	100756530	0.74	0.65	0.65	0.66	0.87	0.83	188.37	164.71	170.17	169.20	223.56	215.91
fibroblast growth factor 1 (acidic)	Fgf1	100764257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 10	Fgf10	100751051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 11	Fgf11	100759104	0.01	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
fibroblast growth factor 12	Fgf12	100770589	0.08	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
fibroblast growth factor 13	Fgf13	100756051	3.24	3.57	4.28	4.05	2.86	3.44	182.29	194.90	236.00	222.51	164.56	186.93
fibroblast growth factor 14	Fgf14	100762042	0.00	0.03	0.00	0.00	0.04	0.11	0.00	1.83	1.24	0.00	3.10	1.87
fibroblast growth factor 16	Fgf16	100767099	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 17	Fgf17	100764611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 18	Fgf18	100761504	5.39	5.88	6.00	6.70	4.50	3.41	149.63	154.64	188.80	205.13	139.72	121.51
fibroblast growth factor 19	Fgf19	100758307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 2 (basic)	Fgf2	100757429	0.05	0.06	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	2.07	0.93
fibroblast growth factor 20	Fgf20	100773578	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 21	Fgf21	100757339	0.04	0.21	0.07	0.07	0.00	0.00	0.76	4.58	1.24	1.16	2.07	0.00
fibroblast growth factor 22	Fgf22	103160353	0.56	0.62	0.92	0.75	0.59	0.43	31.14	25.62	47.20	28.97	28.98	22.43
fibroblast growth factor 23	Fgf23	100763837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 3	Fgf3	100757734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 4	Fgf4	100758023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 5	Fgf5	100763237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 6	Fgf6	100772115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor 7	Fgf7	100761599	0.31	0.37	0.11	0.14	0.01	0.00	29.62	35.69	9.94	12.75	1.03	0.00
fibroblast growth factor 8 (androgen-induced)	Fgf8	100750999	0.00	0.06	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00	1.03	0.00
fibroblast growth factor 9	Fgf9	100759509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor binding protein 1	Fgfbp1	100762110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor binding protein 3	Fgfbp3	103163266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor receptor 1	Fgfr1	100773586	19.58	18.81	17.56	18.40	15.90	18.00	2551.29	2477.00	2316.49	2354.93	2032.71	2304.90
FGFR1 oncogene partner	Fgfr1op	100756864	2.93	2.85	2.44	2.73	3.66	3.47	292.42	278.17	258.35	271.19	358.11	337.42
FGFR1 oncogene partner 2	Fgfr1op 2	100756667	46.18	47.15	44.26	48.11	50.09	50.43	1452.24	1543.66	1439.58	1542.52	1624.93	1623.52
fibroblast growth factor receptor 2	Fgfr2	100763455	0.03	0.03	0.02	0.02	0.01	0.01	4.56	2.75	2.48	3.48	1.03	0.93
fibroblast growth factor receptor 3	Fgfr3	100764560	1.64	1.53	1.47	1.39	1.29	1.07	198.24	190.33	176.38	162.25	145.93	127.12
fibroblast growth factor receptor 4	Fgfr4	100765320	0.04	0.04	0.01	0.01	0.00	0.00	5.32	5.49	2.48	2.32	0.00	0.93
fibroblast growth factor receptor-like 1	Fgfrl1	100771678	3.87	3.97	4.70	3.83	2.90	3.41	858.28	879.35	1040.87	849.49	634.45	757.08
fibrinogen gamma chain	Fgg	100769847	0.00	0.03	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
FGGY carbohydrate kinase domain containing	Fggy	100763881	13.55	12.74	15.29	16.49	16.06	17.71	697.26	686.28	761.40	806.61	792.80	841.20
fibrinogen-like 1	Fgl1	100771647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibrinogen-like 2	Fgl2	100760509	0.22	0.19	0.10	0.14	0.13	0.10	17.47	14.64	9.94	11.59	9.31	9.35
feline Gardner-Rasheed sarcoma viral oncogene homolog	Fgr	100758687	0.09	0.06	0.03	0.05	0.00	0.02	5.32	5.49	1.24	3.48	3.10	0.93
fumarate hydratase	Fh	100773218	76.73	80.31	81.90	80.95	76.31	80.38	3465.02	3658.30	3738.68	3618.15	3417.52	3602.22
forkhead-associated (FHA) phosphopeptide binding domain 1	Fhad1	100752360	0.05	0.04	0.02	0.03	0.02	0.04	6.08	5.49	6.21	5.79	2.07	5.61

FH2 domain containing 1	Fhdc1	100760893	1.49	1.65	1.84	1.70	1.79	1.82	176.97	198.56	221.09	199.33	220.45	220.58
fragile histidine triad	Fhit	100755382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
four and a half LIM domains 1	Fhl1	100763662	36.46	36.02	28.53	30.49	31.23	34.61	2504.96	2505.36	2002.24	2087.21	2099.99	2342.28
four and a half LIM domains 2	Fhl2	100762607	113.65	101.98	72.15	70.27	72.81	80.99	4336.97	3939.22	2773.58	2575.12	2640.25	2959.16
four and a half LIM domains 3	Fhl3	100751268	21.14	18.70	22.13	17.28	22.99	23.12	871.95	780.52	907.97	702.31	937.70	957.10
four and a half LIM domains 5	Fhl5	100773098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
formin homology 2 domain containing 1	Fhod1	100760903	4.03	3.93	3.57	3.12	2.26	2.87	504.33	493.20	444.67	395.19	283.59	357.98
formin homology 2 domain containing 3	Fhod3	100761354	0.07	0.01	0.06	0.03	0.03	0.03	9.11	0.92	8.69	3.48	5.17	5.61
fibrinogen C domain containing 1	Fibcd1	100767519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fin bud initiation factor homolog (zebrafish)	Fibin	100760017	0.42	0.28	0.15	0.07	0.11	0.19	20.51	15.56	8.69	4.64	5.17	9.35
fibroblast growth factor (acidic) intracellular binding protein	Fibp	100766825	44.30	42.46	96.10	91.10	86.06	89.27	1648.96	1571.11	3382.20	3132.56	2968.34	3055.44
FIC domain containing	Ficd	100760999	3.97	3.53	5.31	4.59	3.34	4.08	360.78	320.26	485.66	416.05	301.18	368.26
FIG4 homolog, SAC1 lipid phosphatase domain containing (S. cerevisiae)	Fig4	100772123	11.96	12.20	11.45	12.42	13.55	12.76	1135.51	1166.67	1081.86	1168.19	1269.93	1189.83
c-fos induced growth factor (vascular endothelial growth factor D)	Figf	100773421	0.27	0.18	0.21	0.11	0.10	0.12	19.75	13.73	17.39	8.11	10.35	8.41
folliculogenesis specific basic helix-loop-helix	Figla	100755024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fidgetin	Fign	100751083	0.99	0.85	1.20	0.95	0.97	1.10	110.13	91.50	134.15	101.98	105.57	115.90
fidgetin-like 1	Fignl1	100758940	7.68	7.97	8.35	8.57	10.70	9.39	665.36	677.12	715.44	740.55	894.23	810.36
filamin A interacting protein 1	Filip1	100755967	0.06	0.02	0.06	0.06	0.01	0.02	8.35	3.66	7.45	6.95	1.03	2.80
filamin A interacting protein 1-like	Filip1l	100755572	10.66	10.73	12.57	15.09	13.40	11.84	1003.35	1011.11	1202.34	1427.79	1262.68	1124.41
factor interacting with PAPOLA and CPSF1	Fip1l1	100756086	109.35	114.07	126.07	130.09	118.87	115.57	6456.84	6793.21	7445.07	7458.81	6872.31	6710.93
fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae)	Fis1	100689455	55.56	58.65	57.14	57.63	53.18	60.57	923.60	971.77	911.69	865.71	697.58	783.25
fat storage-inducing transmembrane protein 1	Fitm1	100762028	0.00	0.00	0.00	0.06	0.00	0.05	0.76	0.00	0.00	0.00	0.00	0.93
fat storage-inducing transmembrane protein 2	Fitm2	100771223	22.14	21.97	18.79	19.50	21.17	21.22	2465.46	2453.20	2111.55	2178.77	2343.21	2381.54
FLT3-interacting zinc finger 1	Fiz1	100768644	1.57	1.59	1.28	0.24	0.30	0.19	41.77	43.92	37.26	12.75	13.45	8.41
four jointed box 1 (Drosophila)	Fjx1	100756899	1.97	2.30	0.55	0.26	0.00	0.00	58.48	62.22	16.15	6.95	0.00	0.00
FK506 binding protein 10, 65 kDa	Fkbp10	100771014	143.37	143.58	102.72	89.01	60.31	65.20	10425.44	10480.79	7527.05	6483.00	4404.90	4781.77
FK506 binding protein 11, 19 kDa	Fkbp11	100766921	138.65	128.80	155.50	143.78	140.92	147.36	2574.84	2421.18	2937.54	2502.11	2305.95	2460.05
FK506 binding protein 14, 22 kDa	Fkbp14	100758490	14.91	15.41	15.39	17.30	21.66	20.57	1394.51	1439.35	1455.73	1644.51	2018.22	1932.90
FK506 binding protein 15, 133kDa	Fkbp15	100756439	10.45	10.89	9.75	10.30	10.40	10.77	1359.58	1428.37	1273.14	1331.60	1380.67	1405.74
FK506 binding protein 1A, 12kDa	Fkbp1a	100763474	350.61	348.50	280.34	285.03	336.56	341.98	12756.46	12686.02	10252.18	10334.09	12025.51	12358.20
FK506 binding protein 1B, 12.6 kDa	Fkbp1b	100763278	0.21	0.18	0.10	0.05	0.00	0.15	6.08	7.32	3.73	1.16	0.00	4.67
FK506 binding protein 2, 13kDa	Fkbp2	100757160	51.51	50.89	56.17	50.30	41.24	45.04	753.46	738.43	806.11	696.51	582.70	621.56
FK506 binding protein 3, 25kDa	Fkbp3	100757543	199.28	215.71	198.78	197.50	224.44	209.02	4648.38	5078.44	4664.04	4563.83	5245.31	4772.42
FK506 binding protein 4, 59kDa	Fkbp4	100762395	208.30	209.76	228.93	214.49	179.19	193.57	11928.56	12061.97	13142.52	12096.81	10287.76	10981.43

FK506 binding protein 5	Fkbp5	100760904	23.41	24.26	27.11	26.89	22.94	22.28	1585.16	1652.55	1849.47	1828.78	1572.14	1554.36
FK506 binding protein 6, 36kDa	Fkbp6	100761445	0.03	0.07	0.05	0.04	0.15	0.07	0.76	2.75	4.97	4.64	4.14	3.74
FK506 binding protein 7	Fkbp7	100766686	8.05	7.65	8.20	8.56	9.57	9.37	322.04	314.77	329.15	330.29	385.01	361.72
FK506 binding protein 8, 38kDa	Fkbp8	100758154	119.54	114.72	131.36	80.47	42.68	51.86	6494.06	6224.97	7182.99	4363.33	2394.96	2881.59
FK506 binding protein 9, 63 kDa	Fkbp9	100768635	222.42	218.10	205.79	213.60	212.22	221.89	18686.94	18394.00	17455.05	17927.33	17744.84	18638.25
fukutin	Fktn	100761516	12.03	11.71	11.32	10.98	13.58	12.04	735.99	736.60	695.57	699.99	838.34	754.28
flavin adenine dinucleotide synthetase 1	Flad1	100774575	10.90	9.64	12.01	11.40	7.75	8.86	652.44	581.96	722.89	672.17	480.23	564.54
folliculin	Flcn	100760396	5.09	4.93	5.42	5.03	5.27	5.61	420.03	398.95	433.49	417.21	418.13	448.64
filaggrin family member 2	Flg2	100759445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fli-1 proto-oncogene, ETS transcription factor	Fli1	100765706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
flightless I homolog (Drosophila)	Flii	100756205	36.50	34.80	41.13	38.92	33.13	38.02	4333.93	4199.09	4950.96	4632.20	3965.03	4460.24
filamin A, alpha	Flna	100760050	151.20	150.04	131.17	131.47	117.35	126.70	36819.42	37093.63	32570.00	32370.95	28826.44	30888.03
filamin B, beta	Flnb	100769967	43.98	43.47	55.40	58.24	55.40	55.72	11674.12	11708.77	15037.95	15568.93	14647.13	14666.84
filamin C, gamma	Flnc	100751994	0.52	0.50	0.19	0.12	0.14	0.09	135.96	133.59	50.93	32.45	35.19	24.30
flotillin 1	Flot1	100763504	40.45	42.02	40.53	34.17	30.65	32.18	2063.67	2135.69	2068.07	1717.52	1581.46	1674.93
flotillin 2	Flot2	100766445	25.79	26.78	38.04	37.67	31.14	33.74	1971.00	2024.97	2891.58	2825.45	2322.51	2553.52
fibronectin leucine rich transmembrane protein 1	Flrt1	100755496	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
fibronectin leucine rich transmembrane protein 2	Flrt2	100751322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibronectin leucine rich transmembrane protein 3	Flrt3	100771316	3.28	3.68	3.96	4.68	4.42	4.07	380.53	423.66	450.88	538.90	505.07	471.07
fms-related tyrosine kinase 1	Flt1	100761329	0.14	0.17	0.01	0.03	0.04	0.05	29.62	36.60	3.73	6.95	8.28	10.28
fms-related tyrosine kinase 3	Flt3	100761902	0.01	0.00	0.00	0.01	0.03	0.02	0.76	0.00	0.00	1.16	2.07	1.87
fms-related tyrosine kinase 3 ligand	Flt3lg	100773162	8.02	7.61	8.60	7.53	6.27	7.96	290.90	275.43	322.94	280.46	239.08	285.07
fms-related tyrosine kinase 4	Flt4	100766609	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.92	0.00	0.00	1.03	0.93
feline leukemia virus subgroup C cellular receptor 1	Flvcr1	100766724	3.89	3.88	5.06	5.05	5.01	5.23	450.41	456.60	580.05	569.03	568.21	633.71
feline leukemia virus subgroup C cellular receptor family, member 2	Flvcr2	100760195	0.25	0.28	0.22	0.23	0.06	0.18	26.58	29.28	23.60	24.34	8.28	18.69
FLYWCH-type zinc finger 1	Flywch1	100772983	23.95	24.54	22.26	18.49	15.70	16.86	2434.32	2490.72	2263.08	1885.56	1588.70	1730.07
formin 1	Fmn1	100751856	0.10	0.14	0.00	0.04	0.02	0.01	9.87	12.81	0.00	3.48	1.03	0.93
formin 2	Fmn2	100770806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
formin-like 1	Fmnl1	100765726	0.06	0.18	0.07	0.03	0.07	0.02	8.35	17.39	7.45	3.48	6.21	1.87
formin-like 2	Fmnl2	100773842	6.60	6.91	6.53	7.78	8.04	7.34	1004.11	1055.03	982.49	1165.87	1195.41	1108.52
formin-like 3	Fmnl3	100765961	16.26	16.14	16.43	15.40	16.95	16.52	2113.80	2101.83	2132.66	1992.18	2175.54	2130.11
flavin containing monooxygenase 1	Fmo1	100750993	0.01	0.01	0.00	0.00	0.00	0.01	0.76	0.92	0.00	0.00	0.00	0.93
flavin containing monooxygenase 2 (non-functional)	Fmo2	100753345	0.43	0.45	0.08	0.06	0.12	0.29	37.98	45.75	6.21	6.95	10.35	22.43
flavin containing monooxygenase 4	Fmo4	100753048	1.84	2.11	2.47	2.84	2.10	2.44	110.89	127.19	145.32	157.61	126.27	152.35
flavin containing monooxygenase 5	Fmo5	100750494	2.05	2.22	1.94	2.22	2.46	2.61	237.74	255.29	224.82	261.92	277.38	297.22
fibromodulin	Fmod	100765932	0.03	0.03	0.04	0.17	0.15	0.03	0.76	2.75	2.48	8.11	4.14	2.80
fragile X mental retardation 1	Fmr1	100760305	14.96	14.84	13.71	15.40	17.00	15.45	1708.20	1725.75	1612.23	1774.31	1960.26	1808.59
fibronectin 1	Fn1	100751189	47.37	46.30	4.35	4.30	0.22	0.23	11588.29	11311.64	1073.16	1034.92	54.85	58.88
fructosamine 3 kinase	Fn3k	100751771	0.25	0.34	0.08	0.08	0.03	0.03	13.67	13.73	2.48	5.79	2.07	2.80
fructosamine 3 kinase related protein	Fn3krp	100752057	32.78	34.37	15.31	14.50	11.76	12.72	1864.67	1957.26	876.91	822.83	661.36	713.15

formin binding protein 1	Fnbp1	100759492	4.52	4.83	5.32	5.13	4.81	4.67	334.96	364.18	404.92	374.33	357.07	345.83
formin binding protein 1-like	Fnbp1l	100757842	10.61	9.80	10.59	13.50	13.94	12.88	1609.46	1506.15	1630.86	2060.56	2136.21	1964.68
formin binding protein 4	Fnbp4	100764816	19.70	19.89	20.63	23.68	24.18	22.15	2358.37	2371.77	2494.11	2842.83	2905.21	2711.48
fibronectin type III domain containing 1	Fndc1	100761672	0.00	0.00	0.00	0.00	0.00	0.01	0.76	0.00	0.00	0.00	0.00	1.87
fibronectin type III domain containing 3A	Fndc3a	100775061	8.92	9.13	8.18	9.64	9.94	9.34	1525.91	1572.94	1425.92	1637.55	1697.38	1602.96
fibronectin type III domain containing 3B	Fndc3b	100755546	12.08	11.85	14.00	16.11	14.02	13.17	2352.29	2345.23	2772.34	3132.56	2716.84	2576.88
fibronectin type III domain containing 4	Fndc4	100757660	2.22	2.22	1.98	1.91	1.34	1.77	121.53	120.78	106.82	99.67	72.45	93.47
fibronectin type III domain containing 5	Fndc5	100757300	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
fibronectin type III domain containing 7	Fndc7	100752797	0.12	0.03	0.08	0.04	0.00	0.09	7.60	0.92	4.97	1.16	0.00	3.74
fibronectin type III domain containing 8	Fndc8	100766468	0.07	0.04	0.00	0.00	0.00	0.00	3.80	0.92	0.00	2.32	2.07	0.93
fibronectin type III domain containing 9	Fndc9	100768078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
folliculin interacting protein 1	Fnip1	100763470	5.22	5.29	5.95	6.62	7.39	7.34	856.00	861.96	981.25	1072.00	1196.44	1219.74
folliculin interacting protein 2	Fnip2	100753221	6.28	6.19	8.35	9.00	9.29	9.77	1339.83	1338.69	1813.45	1907.58	1955.09	2075.90
farnesyltransferase, CAAX box, alpha	Fnta	100752295	101.63	102.84	104.54	110.74	128.07	123.69	4038.47	4046.28	4122.49	4274.10	4996.91	4929.45
farnesyltransferase, CAAX box, beta	Fntb	100752221	11.88	11.03	12.01	10.96	9.32	9.71	912.97	872.94	943.99	851.81	729.67	767.36
folate receptor 1 (adult)	Folr1	100689330	0.15	0.00	0.00	0.05	0.00	0.04	3.80	0.00	0.00	1.16	0.00	0.93
folate receptor 4, delta (putative)	Folr4	100755390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FGFR1OP N-terminal like	Fopnl	100750977	25.94	25.52	25.17	25.83	30.69	30.15	1153.74	1124.58	1136.51	1146.17	1330.99	1317.88
FBJ murine osteosarcoma viral oncogene homolog	Fos	100689418	1.36	2.67	1.22	1.11	0.85	1.26	48.61	93.33	43.47	35.93	25.87	40.19
FBJ murine osteosarcoma viral oncogene homolog B	Fosb	100755767	0.62	0.60	0.63	0.48	0.27	0.29	28.10	38.43	39.75	31.29	23.80	29.91
FOS-like antigen 1	Fosl1	103159499	206.08	201.30	159.21	135.10	137.26	136.74	9737.29	9503.54	7482.33	6299.89	6381.73	6435.20
FOS-like antigen 2	Fosl2	100755919	13.80	13.24	10.89	8.82	6.73	7.73	2105.44	2019.48	1676.82	1346.66	1026.71	1187.03
forkhead box A1	Foxa1	100755899	0.28	0.19	0.39	0.29	0.29	0.41	22.03	14.64	32.29	22.02	22.77	31.78
forkhead box A2	Foxa2	100772660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box A3	Foxa3	100758663	0.03	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	2.07	0.93
forkhead box B1	Foxb1	100751108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box F1	Foxf1	100757169	9.71	10.40	11.71	9.72	13.18	13.43	908.41	965.36	1099.25	903.96	1216.11	1255.26
forkhead box F2	Foxf2	100760156	7.23	6.07	7.96	7.77	8.04	7.54	403.32	341.31	445.91	433.44	447.11	417.80
forkhead box G1	Foxg1	100762710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box H1	Foxh1	100760801	0.37	0.26	0.15	0.25	0.13	0.15	22.79	18.30	11.18	13.91	13.45	10.28
forkhead box I1	Foxi1	100767484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box I3	Foxi3	100765634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box J1	Foxj1	100755106	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
forkhead box J2	Foxj2	100770857	12.03	11.38	12.12	13.02	11.68	12.25	1038.29	988.24	1150.17	1172.83	1044.30	1103.84
forkhead box J3	Foxj3	100759136	39.53	39.71	37.75	38.27	36.33	38.01	5113.22	5170.85	4919.91	4981.04	4702.98	4913.56
forkhead box K1	Foxk1	100768479	8.72	7.97	6.96	6.49	4.65	5.33	920.56	850.07	740.28	690.72	498.86	564.54
forkhead box K2	Foxk2	100752578	34.35	33.29	13.29	14.49	8.99	9.15	2735.86	2692.03	1065.71	1161.24	742.09	730.91
forkhead box M1	Foxm1	100769341	28.50	28.10	28.24	29.70	27.66	28.37	2607.50	2569.41	2599.69	2706.08	2507.77	2579.69
forkhead box N2	Foxn2	100768700	18.33	18.27	17.07	19.52	21.40	20.36	2735.10	2730.46	2564.91	2930.91	3176.37	3047.96

forkhead box N3	Foxn3	100768709	9.03	9.25	11.77	11.51	12.09	12.12	1939.10	1992.03	2533.86	2473.14	2579.19	2603.06
forkhead box N4	Foxn4	100752823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box O1	Foxo1	100768647	12.44	12.67	13.31	15.49	15.35	15.15	1585.92	1615.95	1704.14	1979.44	1948.88	1939.44
forkhead box O3	Foxo3	100770315	13.97	13.30	14.14	13.21	10.71	10.96	1137.79	1048.63	1137.75	1096.34	893.19	923.45
forkhead box O4	Foxo4	100756577	14.51	14.27	14.34	12.38	10.74	11.98	1055.00	1066.93	1057.02	929.45	835.23	922.52
forkhead box O6	Foxo6	100758558	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
forkhead box P1	Foxp1	100753762	10.46	10.06	10.15	10.88	9.26	9.53	1286.66	1249.02	1278.11	1360.57	1190.23	1216.01
forkhead box P2	Foxp2	100762481	6.41	6.02	6.53	7.53	7.59	6.77	1217.54	1166.67	1265.69	1440.54	1442.77	1289.84
forkhead box P3	Foxp3	100757421	0.41	0.33	0.50	0.37	0.43	0.43	80.51	75.03	98.12	73.01	71.41	72.90
forkhead box P4	Foxp4	100769418	17.43	15.22	18.51	14.93	9.82	10.38	1548.70	1356.08	1675.58	1338.55	879.74	953.36
forkhead box R1	Foxr1	100755030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box R2	Foxr2	100764480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAD-dependent oxidoreductase domain containing 1	Foxred1	100758274	9.27	9.28	12.93	12.77	12.37	12.61	630.42	635.03	884.37	870.35	847.65	877.65
FAD-dependent oxidoreductase domain containing 2	Foxred2	100769253	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	1.16	0.00	0.00
forkhead box S1	Foxs1	100755669	6.63	6.94	5.03	2.86	2.18	2.42	278.75	296.47	216.12	122.85	98.32	107.49
folylpolyglutamate synthase	Fpgs	100689022	30.57	30.43	32.09	26.82	17.93	19.74	1981.64	2007.58	2173.65	1789.37	1232.67	1329.10
fucose-1-phosphate guanylyltransferase	Fpgt	100769105	8.52	8.43	8.89	9.77	11.97	10.60	864.36	864.71	916.66	992.04	1198.51	1075.80
formyl peptide receptor 1	Fpr1	100758056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
formyl peptide receptor 2	Fpr2	100758340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1	Fra10ac1	100753320	24.80	23.78	22.46	24.25	25.44	24.94	1048.16	1063.27	989.94	1024.49	1103.30	1041.22
Fraser syndrome 1	Fras1	100753685	0.01	0.00	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
frequently rearranged in advanced T-cell lymphomas	Frat1	103160455	6.42	6.78	7.86	6.86	5.12	5.67	268.12	289.15	332.88	287.41	196.65	221.52
FRAS1 related extracellular matrix 1	Frem1	100764944	0.72	0.60	0.53	0.53	0.60	0.67	107.10	97.91	80.74	83.44	95.22	100.94
FRAS1 related extracellular matrix protein 2	Frem2	100754532	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
FRAS1 related extracellular matrix 3	Frem3	100754422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FSHD region gene 1	Frg1	100770784	73.54	79.70	86.13	78.03	80.77	78.83	2055.31	2232.68	2392.26	2105.76	2233.50	2143.20
fyn-related kinase	Frk	100751157	0.06	0.03	0.02	0.03	0.09	0.08	8.35	3.66	2.48	5.79	11.38	11.22
FERM domain containing 1	Frmd1	100750569	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERM domain containing 3	Frmd3	100770240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERM domain containing 4A	Frmd4a	100750826	17.89	18.13	17.21	18.38	17.06	17.02	2463.95	2528.24	2414.62	2591.34	2386.68	2371.26
FERM domain containing 4B	Frmd4b	100755616	0.82	0.80	0.18	0.21	0.07	0.07	107.10	106.14	23.60	28.97	9.31	11.22
FERM domain containing 5	Frmd5	100752890	0.02	0.00	0.00	0.03	0.00	0.05	3.04	2.75	2.48	5.79	1.03	7.48
FERM domain containing 6	Frmd6	100759547	51.45	53.24	55.54	59.47	64.84	63.36	7091.06	7343.14	7727.02	8163.43	8836.71	8713.93
FERM domain containing 7	Frmd7	100762442	0.03	0.04	0.02	0.02	0.03	0.03	3.04	2.75	1.24	1.16	2.07	1.87
FERM and PDZ domain containing 1	Frmpd1	100753341	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
FERM and PDZ domain containing 3	Frmpd3	100760412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERM and PDZ domain containing 4	Frmpd4	100768458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferric-chelate reductase 1	Frrs1	100756307	2.63	2.66	1.97	2.22	2.09	1.94	289.38	275.43	211.15	217.88	222.52	204.69

ferric-chelate reductase 1-like	Frrs1l	100766877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibroblast growth factor receptor substrate 2	Frs2	100758678	6.55	6.76	6.77	6.46	6.74	6.98	665.36	697.26	686.87	671.01	697.58	715.02
fibroblast growth factor receptor substrate 3	Frs3	100770465	2.38	2.20	2.12	1.88	0.76	0.96	148.87	143.66	134.15	127.48	60.03	76.64
furry homolog (Drosophila)	Fry	100759522	3.70	3.88	4.11	4.51	6.14	5.84	1208.43	1267.32	1346.42	1426.63	1958.19	1840.36
FRY-like	Fryl	100753564	4.58	4.30	4.52	5.10	5.74	5.57	1528.95	1464.05	1550.12	1725.63	1943.70	1882.42
frizzled-related protein	Frzb	100757779	0.00	0.03	0.00	0.00	0.03	0.06	0.00	0.92	0.00	0.00	1.03	1.87
fibrinogen silencer binding protein	Fsbp	103162160	2.43	2.43	2.28	2.58	2.80	2.58	319.01	316.60	310.52	343.04	368.46	343.96
fibrous sheath CABYR binding protein	Fscb	103161332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fascin actin-bundling protein 1	Fscn1	100758707	1.77	2.02	0.59	0.46	0.56	0.55	141.27	160.13	47.20	45.20	52.78	50.47
fascin actin-bundling protein 2, retinal	Fscn2	100764319	0.20	0.13	0.15	0.12	0.13	0.07	15.95	12.81	12.42	10.43	10.35	11.22
fascin actin-bundling protein 3, testicular	Fscn3	100773577	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibronectin type III and SPRY domain containing 1	Fsd1	100755663	7.21	7.20	7.79	5.98	4.49	4.98	366.86	379.74	403.68	310.59	240.12	268.25
fibronectin type III and SPRY domain containing 1-like	Fsd1l	100766469	1.21	1.13	1.10	1.53	1.74	1.69	265.84	255.29	252.14	345.36	386.05	387.89
fibronectin type III and SPRY domain containing 2	Fsd2	100769907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	2.07	2.80
follicle stimulating hormone, beta polypeptide	Fshb	100689453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
follicle stimulating hormone receptor	Fshr	100769953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibrous sheath interacting protein 1	Fsip1	100761745	0.55	0.49	0.44	0.41	0.65	0.92	28.86	31.11	27.33	27.81	44.50	49.54
fibrous sheath interacting protein 2	Fsip2	100754113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
follistatin	Fst	100774874	30.83	28.94	34.74	39.48	34.27	33.03	2216.34	2101.83	2480.45	2905.41	2478.79	2461.92
follistatin-like 1	Fstl1	100761843	103.55	101.35	86.26	95.06	76.77	75.64	10926.73	10797.40	9248.58	10084.92	8074.96	8001.71
follistatin-like 3 (secreted glycoprotein)	Fstl3	103160351	2.48	2.28	2.71	2.07	2.41	2.50	131.40	127.19	144.08	114.73	128.34	141.14
follistatin-like 4	Fstl4	100764925	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
follistatin-like 5	Fstl5	100752648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
formimidoyltransferase cyclodeaminase	Ftcd	100754097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.66	16.22	9.31	16.82
ferritin, heavy polypeptide 1	Fth1	100689102	584.64	571.08	702.41	699.80	646.37	669.91	10216.56	10134.91	12382.36	11910.22	10988.45	11195.47
ferritin, light polypeptide	Ftl	100753846	0.43	0.15	0.28	0.41	0.24	0.26	4.56	1.83	7.45	4.64	4.14	3.74
fat mass and obesity associated	Fto	100771560	36.62	38.61	52.14	51.55	46.99	53.61	1631.49	1751.37	2269.29	2279.60	2137.25	2374.06
FtsJ RNA methyltransferase homolog 1 (E. coli)	Ftsj1	100766807	53.79	50.96	63.61	62.42	52.99	58.28	3572.87	3469.81	4312.53	4128.07	3577.95	3879.81
FtsJ RNA methyltransferase homolog 2 (E. coli)	Ftsj2	100770491	10.82	9.92	12.47	9.94	10.36	11.15	503.57	463.92	576.33	462.41	474.02	521.55
FtsJ homolog 3 (E. coli)	Ftsj3	100771677	107.59	110.46	109.47	110.53	96.79	101.16	9937.05	10212.69	10072.08	10033.93	8817.05	9153.22
far upstream element (FUSE) binding protein 1	Fubp1	100761415	30.30	28.69	41.65	38.41	37.14	37.74	2356.09	2254.64	3243.09	2999.28	2902.10	2959.16
far upstream element (FUSE) binding protein 3	Fubp3	100761512	24.01	26.17	24.59	25.19	24.79	25.85	2233.80	2431.24	2342.58	2281.91	2228.33	2294.61
fucosidase, alpha-L- 1, tissue	Fuca1	100752441	105.60	102.28	131.20	134.87	169.86	173.83	5814.27	5692.42	7313.41	7407.82	9352.14	9470.07
fucosidase, alpha-L- 2, plasma	Fuca2	100756134	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
fucokinase	Fuk	100752219	9.73	9.54	10.69	8.79	7.07	8.14	1156.02	1138.30	1274.38	1065.05	852.83	999.16
FUN14 domain containing 1	Fundc1	100769595	33.99	34.24	33.17	34.20	37.45	38.29	1111.21	1145.62	1105.46	1102.13	1231.63	1232.83

FUN14 domain containing 2	Fundc2	100754819	53.26	51.33	38.00	43.21	46.96	47.52	1198.55	1174.90	896.79	968.86	1049.48	1040.29
fucose mutarotase	Fuom	100772971	0.27	0.28	0.50	0.18	0.53	0.24	6.84	9.15	14.91	5.79	15.52	12.15
furin (paired basic amino acid cleaving enzyme)	Furin	100682534	22.30	21.66	10.11	9.07	6.11	6.49	1572.25	1524.45	717.93	617.70	415.03	472.94
fused in sarcoma	Fus	100756868	284.17	285.43	260.27	255.40	225.96	223.64	14801.14	14918.71	13569.80	13064.50	11712.94	11536.63
fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, H blood group)	Fut1	100757047	0.06	0.00	0.00	0.00	0.04	0.00	1.52	0.00	0.00	0.00	1.03	0.93
fucosyltransferase 10 (alpha (1,3) fucosyltransferase)	Fut10	100760260	0.03	0.02	0.00	0.02	0.02	0.09	1.52	0.92	0.00	1.16	1.03	7.48
fucosyltransferase 11 (alpha (1,3) fucosyltransferase)	Fut11	100758336	3.41	2.95	3.60	3.04	3.66	3.71	220.27	191.24	233.51	201.65	233.91	242.08
fucosyltransferase 2 (secretor status included)	Fut2	100751185	0.07	0.00	0.00	0.04	0.00	0.00	3.04	0.92	0.00	1.16	0.00	0.00
fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)	Fut4	100754814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha (1,3) fucosyltransferase 6A	Fut6a	100689084	0.01	0.03	0.08	0.00	0.00	0.03	0.76	0.00	2.48	0.00	0.00	0.93
alpha (1,3) fucosyltransferase 6B	Fut6b	100689083	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
fucosyltransferase 7 (alpha (1,3) fucosyltransferase)	Fut7	100772214	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
fucosyltransferase 8 (alpha (1,6) fucosyltransferase)	Fut8	100751648	11.07	11.72	9.95	10.28	11.90	11.19	893.22	949.80	807.36	817.04	952.19	901.02
fucosyltransferase 9 (alpha (1,3) fucosyltransferase)	Fut9	100689036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fuzzy planar cell polarity protein	Fuz	100772773	12.02	12.36	13.72	12.45	12.48	13.02	480.03	508.76	589.99	500.65	501.97	515.94
frataxin	Fxn	100755339	8.35	7.02	8.10	7.74	7.28	7.10	507.37	444.71	491.87	463.57	425.38	432.75
fragile X mental retardation, autosomal homolog 1	Fxr1	100689323	69.36	71.57	69.86	78.50	73.87	68.11	4720.54	4917.39	4785.76	5369.28	5020.72	4649.98
fragile X mental retardation, autosomal homolog 2	Fxr2	100757950	25.46	24.10	27.29	25.44	21.15	20.92	1948.98	1858.43	2116.52	1955.10	1638.38	1641.28
FXYD domain containing ion transport regulator 2	Fxyd2	100771061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FXYD domain containing ion transport regulator 4	Fxyd4	100773029	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
FXYD domain containing ion transport regulator 6	Fxyd6	100770777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FYN binding protein	Fyb	100774387	0.55	0.55	0.21	0.25	0.43	0.29	76.71	80.52	32.29	37.09	64.17	42.06
FYVE and coiled-coil domain containing 1	Fyco1	100760712	14.42	14.56	16.12	16.08	15.51	16.31	2957.65	3004.06	3316.37	3308.72	3185.69	3382.57
FYN oncogene related to SRC, FGR, YES	Fyn	100772355	52.31	51.82	62.04	65.14	59.29	61.00	4033.91	4038.04	4841.65	5044.78	4661.58	4759.34
forty-two-three domain containing 1	Fyttd1	100763912	17.40	16.78	15.32	17.68	18.60	17.58	1010.95	980.92	884.37	1033.76	1105.37	1024.40
frizzled class receptor 1	Fzd1	100770917	3.73	3.35	3.54	2.95	3.03	3.05	363.06	323.01	344.06	289.73	292.90	298.16
frizzled class receptor 10	Fzd10	100755785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
frizzled class receptor 2	Fzd2	100763109	10.74	9.81	4.94	2.30	0.98	1.34	548.39	496.86	262.08	149.50	69.34	84.12
frizzled class receptor 3	Fzd3	100751712	2.91	2.91	3.27	3.44	3.40	3.49	262.04	254.38	299.34	310.59	307.39	310.31
frizzled class receptor 4	Fzd4	100756296	0.83	0.69	0.93	0.84	1.18	1.08	113.17	96.08	127.93	115.89	162.49	151.42
frizzled class receptor 5	Fzd5	100762351	1.38	1.01	1.08	0.76	0.41	0.50	109.37	74.12	88.19	60.26	45.54	48.60
frizzled class receptor 6	Fzd6	100774509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
frizzled class receptor 7	Fzd7	100766658	14.47	14.40	13.46	12.51	11.65	12.00	1308.69	1330.46	1269.41	1185.58	1107.44	1175.81
frizzled class receptor 9	Fzd9	100761155	0.02	0.00	0.04	0.03	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00

fizzy/cell division cycle 20 related 1 (Drosophila)	Fzr1	100762149	35.09	34.17	37.22	27.57	15.31	17.71	2106.20	2085.36	2258.11	1661.89	955.29	1062.72
G0/G1 switch 2	G0s2	100762788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G2/M-phase specific E3 ubiquitin protein ligase	G2e3	100763860	11.76	10.90	11.25	12.59	13.73	12.84	1197.03	1141.96	1183.71	1302.63	1405.51	1299.19
GTPase activating protein (SH3 domain) binding protein 1	G3bp1	100761148	82.58	83.52	80.95	74.76	69.69	73.45	6342.15	6483.01	6345.82	5854.86	5394.35	5720.18
GTPase activating protein (SH3 domain) binding protein 2	G3bp2	100752963	104.57	109.21	110.46	110.11	108.61	111.33	12177.69	12699.75	12877.96	12641.50	12384.65	12783.48
glucose-6-phosphatase, catalytic subunit	G6pc	100763214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucose-6-phosphatase, catalytic, 2	G6pc2	100762184	0.09	0.00	0.00	0.04	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
glucose 6 phosphatase, catalytic, 3	G6pc3	100753219	48.80	48.48	39.15	36.54	34.10	38.29	1874.54	1867.58	1514.10	1387.23	1304.08	1484.26
glucose-6-phosphate dehydrogenase	G6pd	100689469	19.65	19.19	24.64	28.35	25.03	27.99	1440.09	1455.82	1874.31	2098.80	1864.01	2050.67
glucosidase, alpha; acid	Gaa	100755105	138.21	127.03	128.58	109.70	82.71	93.86	19611.30	18099.36	18364.25	15521.41	11704.66	13336.80
GRB2-associated binding protein 1	Gab1	100753832	2.62	2.39	3.17	3.39	3.17	3.26	309.13	282.75	373.87	410.26	368.46	387.89
GRB2-associated binding protein 2	Gab2	100771626	12.88	12.30	18.32	19.48	17.55	18.06	480.79	457.52	734.07	728.96	699.65	698.20
GRB2-associated binding protein 3	Gab3	100757434	1.41	0.84	1.89	3.12	3.11	2.20	46.33	44.84	32.29	49.83	48.64	57.01
GABA(A) receptor-associated protein	Gabarap	100767236	159.33	163.38	192.34	196.26	216.09	222.22	3621.48	3706.80	4363.45	4361.02	4853.05	4977.12
GABA(A) receptor-associated protein like 1	Gabarapl1	100771320	41.80	42.08	65.49	64.42	65.18	65.89	2053.03	2060.66	3221.97	3122.13	3139.11	3217.13
GABA(A) receptor-associated protein-like 2	Gabarapl2	100767407	64.24	68.74	63.71	58.32	71.11	75.25	1822.89	1951.77	1810.96	1637.55	1996.49	2109.55
gamma-aminobutyric acid (GABA) B receptor, 1	Gabbr1	100770643	3.37	3.69	3.81	4.51	3.86	3.99	421.54	447.45	475.72	530.79	486.44	469.20
gamma-aminobutyric acid (GABA) B receptor, 2	Gabbr2	100771574	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
GA binding protein transcription factor, alpha subunit 60kDa	Gabpa	100756649	35.28	33.19	31.12	35.85	35.55	34.59	2545.98	2455.03	2285.44	2594.82	2554.35	2526.41
GA binding protein transcription factor, beta subunit 1	Gabpb1	100753587	8.88	9.38	10.40	10.13	9.95	9.77	650.93	680.78	772.58	742.87	706.90	700.07
GA binding protein transcription factor, beta subunit 2	Gabpb2	100768222	15.65	15.63	17.15	19.63	19.16	21.78	1639.09	1605.88	1833.32	2028.11	2001.66	2218.91
gamma-aminobutyric acid (GABA) A receptor, alpha 1	Gabra1	100765947	0.00	0.00	0.21	0.43	0.50	0.34	0.00	0.00	99.37	127.48	153.18	157.02
gamma-aminobutyric acid (GABA) A receptor, alpha 2	Gabra2	100771532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
gamma-aminobutyric acid (GABA) A receptor, alpha 3	Gabra3	100754835	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, alpha 4	Gabra4	100755113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, alpha 5	Gabra5	100764074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, alpha 6	Gabra6	100765459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, beta 1	Gabrb1	100754246	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, beta 2	Gabrb2	100766244	0.00	0.00	0.00	0.09	0.04	0.04	0.00	0.00	0.00	2.32	1.03	0.93
gamma-aminobutyric acid (GABA) A receptor, delta	Gabrd	100756568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

gamma-aminobutyric acid (GABA) A receptor, epsilon	Gabre	100755410	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, gamma 1	Gabrg1	100756681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, gamma 2	Gabrg2	100768164	0.00	0.00	0.03	0.03	0.06	0.03	0.00	0.00	6.21	3.48	6.21	4.67
gamma-aminobutyric acid (GABA) A receptor, gamma 3	Gabrg3	100764373	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, pi	Gabrp	100766614	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, theta	Gabrq	100767917	0.01	0.00	0.00	0.00	0.02	0.00	0.76	0.92	1.24	0.00	1.03	0.00
gamma-aminobutyric acid (GABA) A receptor, rho 1	Gabrr1	100769153	0.07	0.07	0.02	0.00	0.02	0.00	5.32	3.66	1.24	0.00	1.03	0.00
gamma-aminobutyric acid (GABA) A receptor, rho 2	Gabrr2	100769438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid (GABA) A receptor, rho 3	Gabrr3	100773638	0.15	0.08	0.00	0.02	0.04	0.04	10.63	4.58	1.24	1.16	3.10	3.74
glutamate decarboxylase 1 (brain, 67kDa)	Gad1	100765882	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)	Gad2	100757642	3.43	3.44	3.68	3.89	3.72	3.40	497.50	503.27	537.82	566.71	540.26	499.11
growth arrest and DNA-damage-inducible, beta	Gadd45 b	100766127	17.26	17.52	11.42	9.76	11.12	11.68	581.81	605.75	386.29	330.29	370.53	394.43
growth arrest and DNA-damage-inducible, gamma	Gadd45 g	100759228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth arrest and DNA-damage-inducible, gamma interacting protein 1	Gadd45 gip1	100763960	45.20	39.75	45.40	32.98	17.63	18.68	804.35	727.45	833.44	603.80	361.21	386.95
glutamate decarboxylase-like 1	Gadl1	100752374	0.02	0.02	0.00	0.00	0.00	0.00	1.52	0.92	1.24	1.16	0.00	0.00
cyclin G associated kinase	Gak	100766883	37.29	38.74	41.30	39.21	37.53	38.91	4923.33	5163.53	5534.74	5278.88	5053.84	5268.73
galanin/GMAP prepropeptide	Gal	100760816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
galactose-3-O-sulfotransferase 1	Gal3st1	100756367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
galactose-3-O-sulfotransferase 2	Gal3st2	100755837	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
galactose-3-O-sulfotransferase 3	Gal3st3	100769025	0.23	0.43	0.03	0.12	0.18	0.14	11.39	20.13	4.97	11.59	12.42	7.48
galactose-3-O-sulfotransferase 4	Gal3st4	100771720	1.05	1.29	1.09	1.21	1.06	1.01	29.62	48.50	36.02	42.88	47.61	43.93
galactosylceramidase	Galc	100751905	9.57	10.29	2.92	2.94	0.98	0.73	799.04	853.73	239.72	243.37	82.80	62.62
galactokinase 1	Galk1	100757135	35.84	32.59	37.78	24.27	12.38	16.76	1439.33	1328.63	1529.01	993.19	516.46	674.83
galactokinase 2	Galk2	100752083	16.79	17.01	15.90	15.80	19.19	18.60	742.07	761.31	695.57	703.46	835.23	823.44
galactose mutarotase (aldose 1-epimerase)	Galm	100756945	8.30	8.72	7.46	7.50	7.19	7.77	606.11	634.12	546.52	544.69	528.88	562.67
galactosamine (N-acetyl)-6-sulfate sulfatase	Galns	100753973	12.14	12.25	15.92	16.38	17.07	17.28	840.81	872.94	1109.18	1133.42	1176.78	1200.12
polypeptide N-acetylgalactosaminyltransferase 1	Galnt1	100763868	25.61	25.79	22.61	23.96	25.69	24.07	2659.91	2692.94	2371.14	2502.11	2679.58	2530.15
polypeptide N-acetylgalactosaminyltransferase 10	Galnt10	100768523	8.31	7.62	9.20	9.58	8.00	8.89	1263.11	1167.58	1391.14	1454.44	1185.06	1334.71
:polypeptide N-acetylgalactosaminyltransferase 11	Galnt11	100758359	15.62	15.29	17.62	19.57	18.70	19.20	1091.46	1093.47	1252.02	1366.37	1317.54	1354.34

polypeptide N-acetylgalactosaminyltransferase 12	Galnt12	100772146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polypeptide N-acetylgalactosaminyltransferase 13	Galnt13	100768831	1.18	1.14	1.99	1.57	2.69	2.55	110.89	105.23	180.10	144.86	240.12	219.65
polypeptide N-acetylgalactosaminyltransferase 14	Galnt14	100759781	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
polypeptide N-acetylgalactosaminyltransferase 15	Galnt15	100766936	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	1.16	0.00	0.93
polypeptide N-acetylgalactosaminyltransferase 16	Galnt16	100764829	0.07	0.11	0.12	0.03	0.13	0.02	3.04	5.49	4.97	5.79	7.24	0.93
polypeptide N-acetylgalactosaminyltransferase 18	Galnt18	100767393	0.08	0.04	0.00	0.00	0.00	0.00	3.80	4.58	0.00	0.00	0.00	0.93
polypeptide N-acetylgalactosaminyltransferase 2	Galnt2	100767525	60.61	59.01	52.22	51.01	49.25	52.82	5938.08	5838.83	5287.56	5064.48	4854.09	5216.39
polypeptide N-acetylgalactosaminyltransferase 3	Galnt3	100753226	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
polypeptide N-acetylgalactosaminyltransferase 5	Galnt5	100757219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polypeptide N-acetylgalactosaminyltransferase 6	Galnt6	100751126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polypeptide N-acetylgalactosaminyltransferase 7	Galnt7	100762043	14.34	14.50	18.14	20.59	19.66	17.68	1610.22	1662.62	2071.80	2329.43	2235.57	1991.78
polypeptide N-acetylgalactosaminyltransferase 8	Galnt8	100764127	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
polypeptide N-acetylgalactosaminyltransferase 9	Galnt9	100773797	0.00	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
polypeptide N-acetylgalactosaminyltransferase-like 5	Galntl5	100767659	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
polypeptide N-acetylgalactosaminyltransferase-like 6	Galntl6	100761752	0.02	0.02	0.00	0.00	0.00	0.00	4.56	0.92	0.00	1.16	3.10	1.87
galanin-like peptide	Galp	100764710	0.29	0.26	0.12	0.23	0.40	0.09	6.84	2.75	4.97	1.16	6.21	2.80
galanin receptor 1	Galr1	100755896	0.04	0.00	0.00	0.03	0.05	0.02	1.52	0.00	0.00	1.16	2.07	0.93
galanin receptor 2	Galr2	100760610	0.02	0.05	0.00	0.07	0.03	0.00	1.52	1.83	0.00	2.32	3.10	0.00
galactose-1-phosphate uridylyltransferase	Galt	100752522	16.21	15.62	17.88	18.56	15.62	16.52	606.87	605.75	681.91	691.88	577.52	612.21
guanidinoacetate N-methyltransferase	Gamt	100755964	23.38	22.52	30.27	23.09	22.71	22.78	402.56	398.04	541.55	405.62	381.91	383.21
gigaxonin	Gan	100760056	3.47	3.55	3.05	3.18	3.28	3.44	458.76	467.58	413.61	423.01	432.62	447.71
glucosidase, alpha; neutral AB	Ganab	100752162	137.24	132.51	125.21	126.64	120.44	126.91	15156.61	14717.40	14004.53	14097.10	13491.05	14107.90
glucosidase, alpha; neutral C	Ganc	100770033	1.16	1.12	1.03	0.89	1.22	1.27	150.39	151.90	145.32	129.80	169.74	165.44
growth associated protein 43	Gap43	100751655	0.43	0.42	0.11	0.13	0.15	0.32	16.71	16.47	4.97	5.79	5.17	11.22
glyceraldehyde-3-phosphate dehydrogenase	Gapdh	100736557	3813.77	3775.77	3401.73	2869.64	2154.72	2442.17	118235.95	117003.51	105526.46	87909.87	66593.09	75783.95
glyceraldehyde-3-phosphate dehydrogenase, spermatogenic	Gapdhs	100767862	0.00	0.00	0.00	0.00	0.06	0.00	6.84	10.07	18.63	9.27	18.63	14.02
GRB2-binding adaptor protein, transmembrane	Gapt	100753774	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase activating protein and VPS9 domains 1	Gapvd1	100755209	32.66	32.12	39.68	43.11	43.41	44.17	6112.77	6061.18	7534.50	8047.54	8071.86	8241.92
GAR1 ribonucleoprotein	Gar1	103159924	67.61	68.33	67.38	66.01	70.68	69.43	132.92	124.44	125.45	125.16	130.41	114.03

GRB2 associated, regulator of MAPK1	Garem	100774206	1.26	1.13	1.41	1.70	1.17	1.17	85.07	79.61	106.82	119.37	83.83	75.71
GRB2 associated, regulator of MAPK1-like	Garem1	100771349	0.07	0.02	0.10	0.09	0.10	0.10	6.84	1.83	12.42	9.27	9.31	10.28
GTPase activating Rap/RanGAP domain-like 3	Garnl3	100762245	0.58	0.62	0.89	1.02	0.81	1.03	68.36	66.80	95.64	120.53	96.25	105.62
glycyl-tRNA synthetase	Gars	100751073	260.12	249.43	292.56	300.95	283.73	294.87	17110.90	16630.73	19538.03	19775.81	18566.62	19213.07
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	Gart	100689446	99.48	97.91	99.28	100.49	93.68	100.03	9964.40	10037.92	10075.81	10016.54	9370.77	9910.30
growth arrest-specific 2	Gas2	100764664	7.66	7.60	7.94	8.56	8.63	9.90	306.85	290.07	310.52	330.29	383.98	387.89
growth arrest-specific 2 like 1	Gas2l1	100773328	18.57	16.75	17.60	10.79	11.40	10.82	1460.59	1319.48	1381.20	826.31	891.12	837.46
growth arrest-specific 2 like 2	Gas2l2	100774805	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
growth arrest-specific 2 like 3	Gas2l3	100764083	6.14	6.08	5.37	6.73	7.42	6.85	982.84	982.75	860.77	1082.43	1182.99	1101.98
growth arrest-specific 6	Gas6	100751777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth arrest-specific 7	Gas7	100768686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth arrest-specific 8	Gas8	100752777	2.82	3.01	3.19	3.57	3.68	3.73	179.25	194.90	214.88	227.15	243.22	235.54
gastrin	Gast	100772161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GATA binding protein 1 (globin transcription factor 1)	Gata1	100763974	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
GATA binding protein 2	Gata2	100762331	8.65	8.82	9.37	7.72	6.74	6.27	741.31	753.99	796.18	652.47	564.07	529.02
GATA binding protein 3	Gata3	100760238	3.58	3.34	2.91	2.18	1.27	1.45	293.94	276.34	252.14	186.59	108.67	120.57
GATA binding protein 4	Gata4	100756123	21.42	20.68	21.69	24.13	23.52	25.32	1355.78	1308.50	1383.68	1512.39	1471.75	1588.94
GATA binding protein 5	Gata5	100755855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
GATA binding protein 6	Gata6	103161469	5.37	5.25	5.89	5.54	6.42	6.06	252.17	243.40	275.74	263.07	299.11	285.07
GATA zinc finger domain containing 1	Gatad1	100763066	113.70	123.27	131.82	139.28	144.48	134.55	1957.33	2120.13	2250.66	2268.01	2384.61	2241.34
GATA zinc finger domain containing 2A	Gatad2a	100757004	77.87	74.69	71.66	60.99	45.21	49.10	8026.81	7815.30	7539.47	6381.01	4634.67	5066.84
GATA zinc finger domain containing 2B	Gatad2b	100767845	28.19	28.45	28.87	30.72	33.54	33.15	4429.63	4497.39	4625.53	4831.54	5243.24	5248.17
glutamyl-tRNA(Gln) amidotransferase, subunit C	Gatc	100762845	24.36	22.17	27.47	21.97	20.38	20.62	545.35	542.61	639.67	513.40	488.51	490.70
glycine amidinotransferase (L-arginine:glycine amidinotransferase)	Gatm	100771783	0.41	0.57	0.08	0.08	0.12	0.05	28.86	40.26	6.21	6.95	8.28	3.74
GATS protein-like 2	Gatsl2	100768347	1.21	1.23	0.89	0.51	1.20	1.30	37.98	46.67	23.60	18.54	42.43	52.34
GATS protein-like 3	Gatsl3	100754150	4.72	4.64	5.61	5.28	3.03	4.13	265.84	253.46	316.73	271.19	184.23	216.84
glucosidase, beta, acid	Gba	100756635	40.80	38.93	53.76	53.42	53.48	58.16	2512.56	2401.96	3317.61	3253.09	3244.68	3561.09
glucosidase, beta (bile acid) 2	Gba2	100772646	2.48	2.77	2.96	2.53	2.01	2.17	241.53	265.36	283.20	239.90	195.61	209.37
glioblastoma amplified sequence	Gbas	100756369	19.28	20.40	20.30	20.15	21.20	20.39	1101.33	1183.14	1172.53	1149.65	1211.97	1159.93
glucan (1,4-alpha-), branching enzyme 1	Gbe1	100772279	4.79	4.55	4.44	4.86	5.80	5.74	387.37	377.91	373.87	397.51	466.78	450.51
golgi brefeldin A resistant guanine nucleotide exchange factor 1	Gbf1	100689421	25.64	25.62	25.62	26.40	25.48	25.80	4845.10	4814.91	4835.44	4816.47	4588.09	4601.38
globoside alpha-1,3-N-acetylgalactosaminyltransferase 1	Gbgt1	100771256	3.18	2.44	3.34	2.85	3.25	3.42	119.25	98.82	127.93	110.10	130.41	143.94
guanylate binding protein 5	Gbp5	100767428	0.08	0.02	0.00	0.00	0.00	0.04	5.32	2.75	0.00	0.00	0.00	1.87
gastrulation brain homeobox 1	Gbx1	100769092	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

gastrulation brain homeobox 2	Gbx2	100768672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
group-specific component (vitamin D binding protein)	Gc	100763450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
grancalcin, EF-hand calcium binding protein	Gca	100768073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine C-acetyltransferase	Gcat	100752849	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
GRIP and coiled-coil domain containing 1	Gcc1	100773292	11.77	11.68	12.07	12.79	12.04	11.86	1337.55	1332.29	1387.41	1454.44	1365.15	1355.27
GRIP and coiled-coil domain containing 2	Gcc2	100760881	7.42	6.58	6.82	8.70	9.17	8.82	1451.48	1270.98	1343.94	1680.43	1762.58	1699.23
glutaryl-CoA dehydrogenase	Gcdh	100757019	14.28	14.72	16.33	16.44	14.39	15.68	813.47	837.26	916.66	880.78	770.03	842.14
GC-rich sequence DNA-binding factor 2	Gcfc2	100766568	6.59	7.04	8.83	9.91	10.79	10.56	512.69	536.21	701.78	778.79	862.14	809.42
glucagon	Gcg	100767021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucagon receptor	Gcgr	100766482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTP cyclohydrolase 1	Gch1	100750667	17.92	19.34	16.83	18.99	23.01	23.06	271.92	283.66	259.60	246.85	305.32	312.18
GTP cyclohydrolase I feedback regulator	Gchfr	100755588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucokinase (hexokinase 4)	Gck	100763110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucokinase (hexokinase 4) regulator	Gckr	100763556	0.05	0.06	0.00	0.00	0.00	0.00	3.80	2.75	2.48	1.16	0.00	0.93
glutamate-cysteine ligase, catalytic subunit	Gclc	100752019	25.11	25.16	27.37	28.74	30.76	29.09	2232.29	2261.05	2444.43	2525.29	2695.10	2545.11
glutamate-cysteine ligase, modifier subunit	Gclm	100750530	44.36	47.49	44.10	50.21	57.56	56.25	2770.80	2987.58	2789.73	3153.42	3497.22	3454.54
glial cells missing homolog 1 (Drosophila)	Gcm1	100755308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.93
glial cells missing homolog 2 (Drosophila)	Gcm2	100761954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	Gcn1l1	100760442	24.00	22.76	22.54	20.73	16.37	18.54	6377.09	6139.87	6133.42	5597.58	4402.83	4952.81
glucosaminyl (N-acetyl) transferase 1, core 2	Gcnt1	100767124	0.00	0.00	0.00	0.00	0.00	0.06	0.76	0.00	0.00	0.00	0.00	1.87
glucosaminyl (N-acetyl) transferase 3, mucin type	Gcnt3	100774815	0.00	0.02	0.00	0.04	0.02	0.00	0.00	0.92	0.00	3.48	1.03	0.00
glucosaminyl (N-acetyl) transferase 4, core 2	Gcnt4	100757239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucosaminyl (N-acetyl) transferase family member 7	Gcnt7	100760777	0.02	0.10	0.00	0.07	0.00	0.05	2.28	4.58	0.00	3.48	0.00	2.80
germinal center-associated, signaling and motility	Gcsam	100770981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine cleavage system protein H (aminomethyl carrier)	Gcsh	100765652	74.48	73.88	75.75	75.26	80.29	76.18	2451.03	2413.86	2489.14	2441.84	2589.54	2468.46
guanine deaminase	Gda	100760443	0.15	0.10	0.03	0.03	0.10	0.09	20.51	14.64	8.69	4.64	15.52	12.15
ganglioside induced differentiation associated protein 1	Gdap1	100765549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ganglioside induced differentiation associated protein 1-like 1	Gdap1l1	100772667	0.11	0.05	0.12	0.09	0.10	0.17	9.11	7.32	9.94	5.79	7.24	9.35
ganglioside induced differentiation associated protein 2	Gdap2	100771093	14.38	14.56	15.34	16.97	19.97	19.75	1029.94	1042.22	1126.57	1206.44	1412.76	1383.31
glycerophosphodiester phosphodiesterase 1	Gde1	100750723	21.75	20.79	19.28	23.17	25.65	26.78	921.32	889.41	833.44	982.76	1082.60	1136.56
growth differentiation factor 10	Gdf10	100758802	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
growth differentiation factor 11	Gdf11	100753230	6.49	6.36	8.06	7.42	5.53	5.82	665.36	653.33	830.96	760.25	562.00	598.19

growth differentiation factor 2	Gdf2	100772200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth differentiation factor 3	Gdf3	100763238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth differentiation factor 5	Gdf5	100762027	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
growth differentiation factor 7	Gdf7	100773313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth differentiation factor 9	Gdf9	100756618	0.45	0.48	0.61	0.35	0.57	0.42	27.34	29.28	32.29	25.50	33.12	26.17
GDP dissociation inhibitor 1	Gdi1	100760927	30.41	29.86	33.45	35.59	40.54	41.53	1911.76	1892.29	2142.60	2239.03	2552.28	2613.34
GDP dissociation inhibitor 2	Gdi2	100765873	140.16	145.66	135.81	146.13	141.31	140.87	7813.38	8114.52	7565.55	8003.50	7660.97	7729.72
glial cell derived neurotrophic factor	Gdnf	100773138	0.00	0.02	0.01	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00
glycerophosphodiester phosphodiesterase domain containing 1	Gdpd1	100758659	0.81	0.69	0.58	0.59	0.59	0.44	37.22	33.86	31.05	32.45	23.80	24.30
glycerophosphodiester phosphodiesterase domain containing 2	Gdpd2	100771225	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
glycerophosphodiester phosphodiesterase domain containing 3	Gdpd3	100753447	0.03	0.07	0.05	0.04	0.04	0.04	2.28	3.66	4.97	9.27	3.10	3.74
glycerophosphodiester phosphodiesterase domain containing 4	Gdpd4	100767792	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
glycerophosphodiester phosphodiesterase domain containing 5	Gdpd5	100774747	4.70	4.67	5.04	4.06	2.92	3.68	192.92	205.88	191.28	168.04	115.92	129.92
GDP-D-glucose phosphorylase 1	Gdpgp1	100772319	17.77	17.23	16.37	14.46	13.96	12.92	674.47	659.74	639.67	559.76	514.39	488.83
GTP binding protein overexpressed in skeletal muscle	Gem	100757029	4.61	4.27	3.23	2.99	3.01	3.38	251.41	230.59	175.13	159.93	156.28	182.26
gem (nuclear organelle) associated protein 2	Gemin2	100755559	41.88	40.84	41.05	40.41	45.27	45.65	1398.31	1429.28	1394.86	1387.23	1568.00	1532.86
gem (nuclear organelle) associated protein 4	Gemin4	100761184	21.83	20.11	21.24	22.49	21.86	23.63	2110.76	1954.51	2079.25	2188.04	2114.48	2317.05
gem (nuclear organelle) associated protein 5	Gemin5	100766595	16.49	16.10	17.10	16.49	14.14	14.23	2792.07	2730.46	2916.42	2816.18	2409.45	2460.05
gem (nuclear organelle) associated protein 6	Gemin6	100756163	25.47	23.59	23.95	23.31	25.09	24.56	732.20	689.02	689.36	669.86	737.95	705.68
gem (nuclear organelle) associated protein 7	Gemin7	100753426	3.40	3.23	3.34	2.94	2.74	3.10	135.20	125.36	132.90	115.89	106.60	124.31
gem (nuclear organelle) associated protein 8	Gemin8	100765564	16.91	18.06	15.53	15.38	14.62	16.02	667.63	711.90	594.96	585.25	575.45	617.82
GEN1 Holliday junction 5' flap endonuclease	Gen1	100754800	3.34	3.65	3.67	4.66	4.95	4.53	494.46	546.28	544.03	681.44	719.32	661.75
golgi to ER traffic protein 4 homolog (S. cerevisiae)	Get4	100769304	43.97	40.46	41.81	38.32	31.48	37.47	2357.61	2197.91	2314.01	2072.15	1722.22	2008.61
glial fibrillary acidic protein	Gfap	100758767	0.09	0.00	0.07	0.00	0.04	0.04	7.60	3.66	7.45	2.32	4.14	7.48
growth factor, augmenter of liver regeneration	Gfer	100767463	35.01	36.02	36.49	33.13	28.31	32.68	849.16	883.92	875.67	788.07	669.64	768.30
growth factor independent 1 transcription repressor	Gfi1	100769674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
growth factor independent 1B transcription repressor	Gfi1b	100767332	0.03	0.04	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
G elongation factor, mitochondrial 1	Gfm1	100757634	62.00	62.35	72.38	75.79	78.38	77.67	4785.86	4903.66	5698.69	5835.16	5988.43	5885.62
G elongation factor, mitochondrial 2	Gfm2	100755195	12.36	11.91	13.66	15.45	15.78	16.28	1212.98	1197.78	1363.81	1523.98	1582.49	1606.70

glucose-fructose oxidoreductase domain containing 1	Gfod1	100767640	6.07	6.13	7.42	7.38	7.57	7.54	1002.59	1017.52	1218.49	1205.28	1221.28	1232.83
glucose-fructose oxidoreductase domain containing 2	Gfod2	100764685	5.41	5.10	5.35	4.90	4.35	4.31	432.18	409.02	432.25	405.62	352.93	347.70
glutamine-fructose-6-phosphate transaminase 2	Gfpt2	100767191	0.16	0.15	0.01	0.11	0.10	0.12	17.47	16.47	1.24	9.27	8.28	12.15
GDNF family receptor alpha 2	Gfra2	100763728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GDNF family receptor alpha 3	Gfra3	100752308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GDNF family receptor alpha like	Gfral	100751689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgi-associated, olfactory signaling regulator	Gfy	100772084	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.87
golgi-associated, gamma adaptin ear containing, ARF binding protein 1	Gga1	100755306	18.98	18.15	19.58	15.32	11.52	13.26	1555.54	1485.10	1608.50	1236.57	921.14	1054.31
golgi-associated, gamma adaptin ear containing, ARF binding protein 3	Gga3	100756491	10.71	10.35	11.38	10.91	9.82	10.36	1222.10	1202.35	1312.89	1258.59	1135.38	1195.44
gamma-glutamylamine cyclotransferase	Ggact	100765817	14.18	16.01	14.01	12.58	12.14	11.93	776.25	872.03	750.22	675.65	637.55	642.12
gamma-glutamylcyclotransferase	Ggct	100774679	18.21	18.20	16.43	18.37	17.63	16.42	394.96	367.84	345.30	377.81	369.49	345.83
gamma-glutamyl carboxylase	Ggcx	100774482	5.75	5.78	7.11	6.53	6.72	6.80	804.35	796.99	998.64	917.86	945.98	956.17
gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase)	Ggh	100751581	16.08	18.10	14.97	17.94	19.74	18.79	663.08	752.16	630.98	727.80	805.22	781.38
gametogenetin binding protein 2	Ggnbp2	100759034	40.63	40.97	23.29	26.48	27.33	26.48	2992.58	3032.42	1743.89	1956.26	1986.14	1917.94
geranylgeranyl diphosphate synthase 1	Ggps1	100767405	18.83	19.11	22.69	22.55	26.42	23.17	997.27	1016.60	1187.44	1227.30	1374.46	1245.91
gamma-glutamyltransferase 1	Ggt1	100763802	0.77	0.68	0.75	0.50	0.41	0.37	54.69	47.58	50.93	33.61	28.98	28.04
gamma-glutamyltransferase 5	Ggt5	100764088	0.02	0.00	0.00	0.00	0.07	0.00	0.76	0.92	0.00	0.00	3.10	0.00
gamma-glutamyltransferase 6	Ggt6	100758668	0.14	0.14	0.05	0.10	0.07	0.04	8.35	9.15	3.73	4.64	4.14	4.67
gamma-glutamyltransferase 7	Ggt7	100752303	14.49	13.80	16.25	12.81	9.01	10.16	1146.14	1098.96	1280.59	1000.15	696.55	780.45
growth hormone 1	Gh1	100770534	0.00	0.00	0.00	0.00	33.27	38.01	0.00	0.00	0.00	1.16	584.77	701.94
GH3 domain containing	Ghdc	100754994	23.36	22.80	19.81	17.10	13.45	14.44	1599.59	1555.56	1366.30	1167.03	921.14	999.16
growth hormone inducible transmembrane protein	Ghitm	100753936	328.28	312.83	337.52	356.06	367.32	379.66	22176.27	21441.98	23120.20	24016.30	24765.15	25432.36
growth hormone receptor	Ghr	100763540	5.59	5.29	4.89	5.99	6.87	6.23	647.13	615.82	563.91	682.60	785.55	715.02
growth hormone releasing hormone	Ghrh	100756401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
growth hormone releasing hormone receptor	Ghrhr	100772938	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.93
ghrelin/obestatin prepropeptide	Ghrl	100759101	0.08	0.10	0.32	0.28	0.31	0.14	4.56	8.24	22.36	24.34	19.66	15.89
growth hormone secretagogue receptor	Ghsr	100755255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GID complex subunit 4	Gid4	100755044	9.52	9.35	10.58	11.63	12.46	12.62	1036.77	1013.86	1150.17	1273.65	1351.69	1378.64
GID complex subunit 8	Gid8	100757886	45.80	47.01	47.49	47.81	52.11	52.75	1784.92	1865.75	1865.61	1863.54	2032.71	2062.82
gastric intrinsic factor (vitamin B synthesis)	Gif	100756309	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB10 interacting GYF protein 1	Gigyf1	100753362	7.60	7.21	6.82	6.58	4.86	5.35	1446.16	1371.64	1314.13	1233.09	895.26	979.53
GRB10 interacting GYF protein 2	Gigyf2	100773834	17.66	17.57	14.82	15.63	15.31	15.88	2702.44	2746.02	2358.72	2460.39	2414.62	2480.61
GTPase, IMAP family member 4	Gimap4	100772834	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase, IMAP family member 6	Gimap6	100772540	0.18	0.26	0.00	0.11	0.05	0.00	5.32	7.32	0.00	2.32	1.03	0.00

GTPase, IMAP family member 7	Gimap7	100772245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase, IMAP family member 8	Gimap8	100773700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
GIMAP family P-loop NTPase domain containing 1	Gimd1	100760074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gypsy retrotransposon integrase 1	Gin1	100769872	15.38	15.45	13.03	14.45	16.25	15.92	957.02	951.63	840.89	913.23	1016.36	1001.03
glycoprotein integral membrane 1	Ginm1	100762603	17.13	16.75	17.95	21.52	21.86	22.23	757.26	778.69	776.30	985.08	986.34	970.19
GINS complex subunit 1 (Psf1 homolog)	Gins1	100768908	12.91	12.41	14.01	13.91	14.95	14.97	480.03	462.09	509.26	487.91	520.60	517.81
GINS complex subunit 2 (Psf2 homolog)	Gins2	100758038	14.13	14.05	16.02	15.95	15.58	16.50	794.48	753.99	873.19	800.81	746.23	790.73
GINS complex subunit 3 (Psf3 homolog)	Gins3	100760912	20.75	21.14	27.84	28.76	32.61	31.43	1127.92	1152.03	1510.38	1543.68	1741.88	1705.77
GINS complex subunit 4 (Sld5 homolog)	Gins4	100752225	19.55	21.24	22.60	22.75	26.32	26.05	514.21	527.06	581.30	534.26	637.55	653.33
gastric inhibitory polypeptide	Gip	100753817	0.00	0.09	0.00	0.00	0.00	0.00	1.52	2.75	1.24	0.00	1.03	0.93
GIPC PDZ domain containing family, member 1	Gipc1	100753328	21.72	21.99	26.54	20.03	18.16	17.72	1803.15	1825.49	2225.82	1665.37	1517.29	1492.67
GIPC PDZ domain containing family, member 2	Gipc2	100761124	0.04	0.05	0.00	0.00	0.06	0.00	0.76	2.75	0.00	0.00	1.03	0.00
GIPC PDZ domain containing family, member 3	Gipc3	100762933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gastric inhibitory polypeptide receptor	Gipr	100756938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
G protein-coupled receptor kinase interacting ArfGAP 1	Git1	100758194	41.60	40.49	49.67	36.97	21.86	23.44	4191.90	4066.41	5019.27	3732.88	2195.21	2393.69
G protein-coupled receptor kinase interacting ArfGAP 2	Git2	100756931	19.15	18.86	19.94	22.39	21.76	22.52	1752.26	1736.73	1868.10	2025.79	2023.40	2051.60
gap junction protein, alpha 1, 43kDa	Gja1	100689077	398.07	399.92	177.27	172.04	166.42	177.92	25554.70	26169.96	11679.34	11626.28	11787.46	12469.43
gap junction protein, alpha 10, 62kDa	Gja10	100770016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, alpha 3, 46kDa	Gja3	100762422	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
gap junction protein, alpha 4, 37kDa	Gja4	100689037	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
gap junction protein, alpha 5, 40kDa	Gja5	100751822	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
gap junction protein, alpha 8, 50kDa	Gja8	100752105	0.05	0.18	0.08	0.05	0.02	0.04	3.04	10.07	3.73	2.32	1.03	1.87
gap junction protein, beta 1, 32kDa	Gjb1	100754733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, beta 2, 26kDa	Gjb2	100762125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, beta 3, 31kDa	Gjb3	100765420	32.58	33.13	23.96	20.69	21.54	23.31	1759.85	1794.38	1304.19	1114.88	1152.97	1260.87
gap junction protein, beta 4, 30.3kDa	Gjb4	100765131	5.59	5.65	3.15	3.12	2.75	3.26	296.98	299.22	172.65	173.84	153.18	171.98
gap junction protein, beta 5, 31.1kDa	Gjb5	100764845	50.39	50.57	39.59	38.02	37.29	39.74	1724.91	1706.54	1329.03	1241.20	1265.79	1365.55
gap junction protein, beta 6, 30kDa	Gjb6	100689286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, gamma 1, 45kDa	Gjc1	100689357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, gamma 3, 30.2kDa	Gjc3	100772879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, delta 2, 36kDa	Gjd2	100766680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gap junction protein, delta 4, 40.1kDa	Gjd4	100772140	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
glycerol kinase	Gk	100753140	0.02	0.03	0.01	0.01	0.02	0.03	1.52	2.75	1.24	1.16	4.14	2.80
glycerol kinase 2	Gk2	100770084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycerol kinase 5 (putative)	Gk5	100765959	0.36	0.34	0.21	0.29	0.27	0.41	56.21	50.33	36.02	41.72	38.29	57.95
G kinase anchoring protein 1	Gkap1	100762171	11.59	12.22	18.01	19.38	19.94	20.09	540.03	586.54	839.65	913.23	924.24	924.39

gastrokine 1	Gkn1	100769103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
galactosidase, alpha	Gla	100752709	24.17	22.02	20.26	21.91	24.69	23.94	1077.79	1019.35	916.66	960.74	1098.12	1056.18
galactosidase, beta 1	Glb1	100767446	30.65	29.50	30.23	29.48	27.45	28.19	2007.46	1967.32	1991.07	1921.49	1785.35	1845.97
galactosidase, beta 1-like	Glb1l	100768265	2.63	2.47	2.68	3.60	3.54	3.59	186.85	184.84	201.22	253.80	279.45	263.58
galactosidase, beta 1-like 2	Glb1l2	100757754	1.27	1.21	0.72	0.74	1.31	1.30	189.13	196.73	104.34	121.69	198.72	202.82
galactosidase, beta 1-like 3	Glb1l3	100757469	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glucocorticoid induced transcript 1	Glcci1	100760004	2.25	2.10	2.19	2.36	2.67	2.94	249.13	243.40	245.93	265.39	290.83	323.40
glucuronic acid epimerase	Glce	100754874	16.48	17.42	16.90	16.75	18.64	18.55	1550.22	1651.64	1594.84	1561.07	1741.88	1770.26
glycine dehydrogenase (decarboxylating)	Gldc	100762555	1.11	1.31	0.18	0.52	1.10	1.18	87.35	96.99	14.91	37.09	85.90	93.47
gliomedin	Gldn	100752888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLE1 RNA export mediator	Gle1	100767037	31.47	31.88	39.02	37.38	35.76	41.02	2037.08	2102.75	2551.25	2430.25	2361.84	2638.57
golgi glycoprotein 1	Glg1	100689240	43.06	43.13	46.74	48.94	51.91	52.15	5183.10	5267.85	5747.14	5846.75	6189.22	6185.64
GLI family zinc finger 1	Gli1	100763229	3.75	3.51	2.68	2.42	1.63	2.03	489.14	464.84	357.72	324.50	228.73	271.05
GLI family zinc finger 2	Gli2	100757572	2.98	2.96	2.42	2.04	1.48	1.68	556.74	560.92	449.64	381.28	267.03	307.51
GLI family zinc finger 3	Gli3	100762738	8.32	8.18	8.75	9.92	9.67	9.07	1741.62	1712.94	1835.80	2069.83	1935.42	1887.10
GLI family zinc finger 4	Gli4	100758024	2.07	1.89	2.09	1.57	0.99	1.24	95.70	88.76	95.64	73.01	44.50	60.75
GLI pathogenesis-related 1	Glipr1	100760583	17.19	16.06	15.45	17.71	19.48	17.54	713.21	688.11	635.95	762.57	795.90	736.52
GLI pathogenesis-related 2	Glipr2	100758797	23.14	23.88	24.74	22.69	24.57	25.82	1147.66	1184.05	1213.52	1102.13	1184.02	1262.74
GLIS family zinc finger 1	Glis1	100771925	3.10	2.72	2.71	2.22	1.15	1.31	230.14	200.39	192.52	166.88	84.87	100.01
GLIS family zinc finger 2	Glis2	100750786	20.28	20.02	17.72	17.64	15.28	16.66	2115.32	2100.92	1863.13	1829.93	1578.35	1710.45
GLIS family zinc finger 3	Glis3	100760016	3.71	3.67	6.68	7.05	4.97	5.11	751.94	757.65	1346.42	1421.99	992.55	1029.07
glomulin, FKBP associated protein	Glmn	100762721	13.00	13.22	12.86	14.83	15.76	13.65	739.79	767.71	758.92	870.35	907.68	790.73
glyoxalase I	Glo1	100764266	91.53	96.56	97.07	99.02	104.11	104.53	4893.71	5212.95	5254.03	5259.18	5533.04	5534.18
glyoxalase domain containing 4	Glod4	100761474	47.09	46.43	47.82	51.96	60.78	57.92	1573.01	1572.94	1624.65	1667.69	2023.40	1912.33
glyoxalase domain containing 5	Glod5	100768535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
glucagon-like peptide 1 receptor	Glp1r	100763400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucagon-like peptide 2 receptor	Glp2r	100765783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine receptor, alpha 1	Glra1	100761438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine receptor, alpha 2	Glra2	100751068	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.92	0.00	0.00	1.03	0.00
glycine receptor, alpha 3	Glra3	100758207	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine receptor, alpha 4	Glra4	100766637	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glycine receptor, beta	Glrb	100764841	0.02	0.02	0.02	0.00	0.00	0.00	2.28	1.83	1.24	0.00	0.00	0.00
glutaredoxin (thioltransferase)	Glrx	100757688	34.01	32.26	30.77	33.44	32.16	30.68	1200.07	1122.75	1073.16	1158.92	1108.47	1065.52
glutaredoxin 2	Glrx2	100766426	77.99	77.83	80.75	92.01	91.66	96.07	771.69	781.44	783.76	851.81	867.32	882.33
glutaredoxin 3	Glrx3	100754656	138.67	139.46	134.91	140.99	137.70	134.08	5671.48	5653.08	5466.42	5484.01	5428.50	5324.81
glutaredoxin 5	Glrx5	100768850	115.77	115.13	128.55	123.74	114.83	117.98	1979.36	1965.49	2194.77	2060.56	1933.35	1984.30
glutaminase	Gls	100689202	23.56	23.52	26.89	29.17	28.85	29.48	3283.49	3282.23	3725.02	4072.44	3969.17	4097.59
glutaminase 2 (liver, mitochondrial)	Gls2	100774486	2.08	2.40	2.35	2.67	2.46	2.71	157.22	186.67	175.13	199.33	174.91	196.28
glycosyltransferase 1 domain containing 1	Glt1d1	100761757	0.06	0.00	0.00	0.00	0.04	0.08	1.52	0.00	0.00	1.16	1.03	1.87
glycosyltransferase 8 domain containing 1	Glt8d1	100762757	26.82	26.60	26.99	29.98	35.80	35.94	1314.00	1305.75	1325.31	1453.29	1742.92	1725.40
glycosyltransferase 8 domain containing 2	Glt8d2	100772458	1.82	1.80	1.13	1.40	0.42	0.50	95.70	90.59	60.86	74.17	32.08	32.71
glycolipid transfer protein	Gltp	100757510	17.31	17.10	15.45	15.85	16.58	17.25	856.00	829.94	763.88	763.73	796.94	832.79

glycolipid transfer protein domain containing 1	Gltpd1	100769709	6.87	6.90	5.91	5.73	6.05	6.25	424.58	433.73	366.42	361.58	382.94	393.50
glycolipid transfer protein domain containing 2	Gltpd2	100752283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
glioma tumor suppressor candidate region gene 1	Gltscr1	100764487	1.44	1.36	1.33	1.04	0.60	0.76	107.85	95.16	96.88	76.49	47.61	57.01
GLTSCR1-like	Gltscr1l	100768726	6.63	7.12	7.20	7.65	7.29	7.20	1216.78	1305.75	1341.45	1390.70	1337.20	1324.43
glioma tumor suppressor candidate region gene 2	Gltscr2	100763895	30.27	31.86	29.42	22.16	15.88	16.96	1255.52	1336.86	1275.62	888.89	656.18	698.20
glutamate dehydrogenase 1	Glud1	100759948	92.15	98.47	120.97	131.78	156.99	158.79	6607.23	7083.27	8741.81	9331.62	11068.14	11219.77
glutamate-ammonia ligase	Glul	100689337	0.11	0.08	0.20	0.06	0.13	0.00						
glutamate-ammonia ligase	Glul	100764163	13.23	13.22	14.12	13.02	13.34	13.20	1163.61	1165.75	1248.30	1126.47	1135.38	1130.02
glycine-N-acyltransferase	Glyat	100767729	0.23	0.23	0.46	0.40	0.42	0.60	24.31	24.71	48.44	41.72	45.54	59.82
glycine-N-acyltransferase-like 3	Glyatl3	100764695	0.15	0.11	0.12	0.17	0.10	0.14	7.60	5.49	4.97	8.11	6.21	10.28
glycerate kinase	Glyctk	100766079	0.78	0.75	0.65	0.45	0.38	0.34	91.14	87.84	77.01	57.95	49.68	42.06
glyoxylate reductase 1 homolog (Arabidopsis)	Glyr1	100771020	24.42	23.17	27.40	26.27	26.31	27.98	2521.67	2421.18	2853.07	2730.42	2701.31	2878.78
GM2 ganglioside activator	Gm2a	100759507	16.69	17.59	12.22	10.66	12.29	11.88	853.72	891.24	634.71	535.42	626.17	605.67
germ cell-less, spermatogenesis associated 1	Gmcl1	100774214	15.83	16.14	17.41	18.85	21.60	21.98	1386.16	1395.43	1525.28	1644.51	1836.07	1861.86
GDP-mannose 4,6-dehydratase	Gmds	100689436	13.35	13.42	14.72	16.57	14.56	14.97	446.61	455.69	478.20	520.36	455.39	471.07
glucocorticoid modulatory element binding protein 1	Gmeb1	100769076	6.68	6.38	7.02	7.14	6.76	6.98	761.06	741.18	822.26	818.20	771.06	797.27
glucocorticoid modulatory element binding protein 2	Gmeb2	100761456	19.75	19.84	18.33	17.78	17.27	18.49	2311.28	2379.09	2187.31	2108.08	2076.18	2209.56
glia maturation factor, beta	Gmfb	100754009	67.34	67.12	61.97	69.55	72.17	66.59	8233.41	8191.38	7595.36	8449.68	8698.02	8124.15
glia maturation factor, gamma	Gmfg	100760695	6.40	6.41	5.49	5.42	5.46	5.61	190.64	193.07	165.20	157.61	163.53	162.63
GEM interacting protein	Gmip	100758734	5.15	4.83	4.46	4.10	3.24	3.60	578.01	547.19	532.86	480.95	405.71	413.12
geminin coiled-coil domain containing	Gmnc	100750918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
geminin, DNA replication inhibitor	Gmnn	100689393	48.38	50.33	48.52	56.09	62.84	59.28	1242.61	1256.34	1233.39	1359.41	1425.18	1335.64
GDP-mannose pyrophosphorylase A	Gmppa	100765276	8.82	8.23	9.26	8.45	7.61	8.86	489.14	475.82	520.43	482.11	423.31	498.18
GDP-mannose pyrophosphorylase B	Gmppb	100760573	9.72	10.55	9.71	9.10	7.91	8.19	561.30	593.86	553.97	522.67	471.95	486.96
guanosine monophosphate reductase	Gmpr	100765304	1.31	1.28	0.90	0.85	0.88	0.96	344.07	330.33	222.33	220.19	228.73	247.69
guanosine monophosphate reductase 2	Gmpr2	100758075	27.35	26.12	23.05	25.61	28.64	29.39	1120.32	1115.43	1016.03	1142.70	1290.63	1239.37
guanine monphosphate synthase	Gmps	100756126	21.46	22.00	26.23	29.54	29.48	27.84	5193.73	5409.68	6421.59	7143.58	7102.08	6751.12
guanine nucleotide binding protein (G protein), alpha 11 (Gq class)	Gna11	100689065	45.68	46.00	53.34	49.68	42.95	45.64	1203.87	1192.29	1347.66	1241.20	1036.02	1118.80
guanine nucleotide binding protein (G protein) alpha 12	Gna12	100760944	60.02	57.52	53.52	52.40	45.06	48.96	5341.08	5143.40	4806.88	4676.24	4001.26	4391.08
guanine nucleotide binding protein (G protein), alpha 13	Gna13	100689071	8.87	11.45	11.14	12.87	12.19	12.73	235.46	293.73	270.77	326.82	289.80	287.88
guanine nucleotide binding protein (G protein), alpha 14	Gna14	100762675	0.02	0.05	0.00	0.00	0.03	0.00	3.04	1.83	3.73	1.16	3.10	0.93
guanine nucleotide binding protein (G protein), alpha 15 (Gq class)	Gna15	100761285	0.20	0.21	0.28	0.13	0.08	0.04	9.87	5.49	9.94	8.11	2.07	1.87
guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1	Gnai1	100689070	8.48	9.05	9.42	9.59	8.64	9.06	259.76	276.34	275.74	292.05	269.10	283.20

guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	Gnai2	100689068	147.24	143.85	163.01	154.98	122.45	133.51	4649.14	4598.96	5203.10	4607.87	3562.42	3828.41
guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	Gnai3	100689072	61.05	58.72	53.76	58.90	65.81	61.94	5329.69	5352.95	4921.15	5334.51	6023.62	5758.50
guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type	Gnal	100760304	0.08	0.03	0.09	0.07	0.07	0.06	14.43	10.98	18.63	15.07	12.42	14.95
guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	Gnao1	100689069	3.82	4.23	2.48	3.34	3.17	3.39	109.37	126.27	77.01	91.55	102.46	96.27
guanine nucleotide binding protein, alpha q polypeptide	Gnaq	100689066	48.64	47.89	47.45	55.97	52.43	55.09	590.16	584.71	571.36	653.63	635.48	646.79
GNAS complex locus	Gnas	100689067	632.49	621.17	613.17	554.18	481.27	491.63	25372.41	25394.01	25034.26	22102.92	19205.21	19481.32
guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 1	Gnat1	100689190	2.06	2.14	1.09	1.56	1.13	1.38	186.85	190.33	109.30	139.07	96.25	120.57
guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 2	Gnat2	100772380	0.69	0.64	0.26	0.27	0.35	0.46	29.62	32.94	11.18	12.75	21.73	24.30
guanine nucleotide binding protein, alpha transducing 3	Gnat3	100764767	0.06	0.05	0.07	0.03	0.00	0.00	2.28	1.83	2.48	3.48	1.03	0.93
guanine nucleotide binding protein (G protein), alpha z polypeptide	Gnaz	100767381	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide binding protein (G protein), beta polypeptide 1	Gnb1	100689442	507.97	490.09	511.27	549.63	541.09	570.90	20712.63	20504.07	21299.31	22413.51	22314.30	23074.19
guanine nucleotide binding protein (G protein), beta polypeptide 1-like	Gnb1l	100773508	7.26	6.82	7.63	6.58	5.44	5.54	285.59	268.10	329.15	273.51	218.38	220.58
guanine nucleotide binding protein (G protein), beta polypeptide 2	Gnb2	100756281	146.23	135.44	149.90	119.64	92.67	108.03	10676.08	9927.20	10975.08	8690.74	6768.81	7833.47
guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	Gnb2l1	100767670	729.83	678.74	870.44	742.89	679.56	855.30	17998.04	16814.66	21362.65	17906.47	16657.07	20732.84
guanine nucleotide binding protein (G protein), beta polypeptide 3	Gnb3	100756790	1.64	1.58	2.07	1.92	2.07	2.47	190.64	181.18	228.54	224.83	194.58	228.99
guanine nucleotide binding protein (G protein), beta polypeptide 4	Gnb4	100757050	34.22	35.84	34.69	36.79	39.42	38.91	3213.61	3383.79	3261.72	3450.10	3624.52	3594.74
guanine nucleotide binding protein (G protein), beta 5	Gnb5	100764899	13.17	13.06	13.15	13.67	12.63	13.97	807.39	789.67	809.84	811.24	752.44	840.27
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	Gne	100689450	3.90	3.14	3.47	3.43	3.84	3.52	293.94	242.48	267.05	258.44	293.94	258.90
guanine nucleotide binding protein (G protein), gamma 10	Gng10	100755995	75.27	75.72	75.18	78.47	92.25	91.26	1844.92	1840.13	1840.77	1864.70	2109.30	2112.35
guanine nucleotide binding protein (G protein), gamma 11	Gng11	100761038	36.58	37.27	49.71	52.87	61.28	62.05	612.19	619.48	813.57	830.95	965.64	983.27
guanine nucleotide binding protein (G protein), gamma 12	Gng12	100757536	59.83	63.67	63.77	68.69	78.03	76.89	6933.83	7359.61	7428.92	7906.15	8905.02	8880.30
guanine nucleotide binding protein (G protein), gamma 13	Gng13	100774382	0.00	0.00	0.20	0.00	0.00	0.00	2.28	2.75	2.48	2.32	3.10	2.80
guanine nucleotide binding protein (G protein), gamma 2	Gng2	100768753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide binding protein (G protein), gamma 3	Gng3	100755432	0.70	0.85	0.61	0.84	0.69	0.57	16.71	16.47	17.39	16.22	19.66	15.89

guanine nucleotide binding protein (G protein), gamma 4	Gng4	100767992	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
guanine nucleotide binding protein (G protein), gamma 7	Gng7	100765832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1	Gngt1	100760746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2	Gngt2	100754408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
guanine nucleotide binding protein-like 1	Gnl1	100757330	44.29	43.76	50.35	39.65	27.65	33.04	2450.27	2410.20	2726.38	2109.23	1520.39	1824.48
guanine nucleotide binding protein-like 2 (nucleolar)	Gnl2	100753926	75.18	78.56	72.45	80.05	73.44	72.22	5122.33	5336.48	4893.82	5353.05	4861.33	4857.48
guanine nucleotide binding protein-like 3 (nucleolar)	Gnl3	100762471	121.96	125.28	131.53	140.13	131.86	128.60	7394.11	7723.80	8095.92	8560.94	8240.56	7760.56
guanine nucleotide binding protein-like 3 (nucleolar)-like	Gnl3l	100755751	38.39	37.56	46.18	49.20	46.79	47.84	5165.63	5111.38	6334.64	6622.07	6276.16	6446.42
glycine N-methyltransferase	Gnmt	100769585	0.10	0.06	0.17	0.16	0.21	0.19	12.15	6.41	18.63	13.91	19.66	21.50
glyceronephosphate O-acyltransferase	Gnpat	100765024	15.92	16.25	16.25	18.82	18.70	18.60	1206.91	1246.28	1265.69	1456.76	1423.11	1412.29
glucosamine-6-phosphate deaminase 1	Gnpda1	100689210	18.61	18.39	17.89	18.81	20.55	20.51	1231.97	1228.89	1204.82	1256.27	1353.76	1378.64
glucosamine-6-phosphate deaminase 2	Gnpda2	100761133	16.54	16.49	13.61	15.68	17.52	17.20	788.40	777.78	644.64	720.85	825.92	805.69
glucosamine-phosphate N-acetyltransferase 1	Gnpnat1	100761974	26.92	25.83	21.79	23.32	23.73	24.80	2078.86	2047.85	1722.77	1833.41	1820.54	1918.88
N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	Gnptab	100774953	26.76	27.64	26.83	32.33	36.00	33.25	4108.35	4269.55	4152.30	4955.54	5498.88	5116.38
N-acetylglucosamine-1-phosphate transferase, gamma subunit	Gnptg	100772246	28.22	26.31	31.49	32.36	30.47	33.47	977.53	938.82	1116.64	1092.86	1031.88	1136.56
gonadotropin-releasing hormone 1 (luteinizing-releasing hormone)	Gnrh1	100774729	0.16	0.09	0.05	0.11	0.06	0.11	10.63	6.41	6.21	6.95	6.21	10.28
gonadotropin-releasing hormone receptor	Gnrhr	100758518	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	0.00	1.03	2.80
glucosamine (N-acetyl)-6-sulfatase	Gns	100770659	17.18	18.02	19.88	20.59	20.05	19.33	1911.00	2024.97	2209.67	2257.58	2214.87	2129.18
golgin A1	Golga1	100751002	6.30	6.00	10.01	10.76	11.88	10.61	754.98	735.69	1202.34	1273.65	1402.41	1255.26
golgin A2	Golga2	100754167	10.10	9.86	8.56	8.32	8.17	8.02	1394.51	1377.13	1212.28	1187.89	1142.62	1159.93
golgin A3	Golga3	100771774	18.50	18.16	17.68	19.91	20.13	20.73	4593.69	4514.78	4477.72	4934.68	4983.46	5102.36
golgin A4	Golga4	100754180	13.90	13.28	14.13	16.13	15.82	14.09	2926.50	2828.37	2938.78	3377.09	3277.80	2975.99
golgin A5	Golga5	100751878	18.47	18.46	16.68	20.45	22.39	21.02	1424.90	1431.11	1335.24	1583.08	1738.78	1616.04
golgin A7	Golga7	100752519	62.49	65.48	64.67	68.76	75.10	69.46	3408.05	3599.74	3567.27	3763.01	4092.34	3836.82
golgin A7 family, member B	Golga7b	100767242	0.15	0.04	0.12	0.00	0.05	0.05	3.80	1.83	2.48	1.16	1.03	0.93
golgin B1	Golgb1	100764942	11.39	11.08	11.57	13.63	15.07	14.92	3342.73	3308.76	3416.98	4062.01	4453.55	4416.31
golgi integral membrane protein 4	Golim4	100758666	30.72	31.55	32.15	36.82	38.63	37.37	3390.58	3499.09	3571.00	4059.70	4223.78	4100.40
golgi membrane protein 1	Golm1	100772389	15.82	15.59	14.60	15.06	16.09	15.26	1341.35	1294.77	1197.37	1277.13	1358.94	1333.77
golgi phosphoprotein 3 (coat-protein)	Golph3	100750982	53.89	52.38	54.49	57.55	58.13	58.62	3477.93	3360.00	3537.46	3695.80	3723.88	3725.59
golgi phosphoprotein 3-like	Golph3l	100764832	15.36	15.53	16.03	17.84	18.38	18.72	1230.45	1238.96	1276.87	1427.79	1454.16	1486.12
golgi transport 1A	Golt1a	100768539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgi transport 1B	Golt1b	100773711	37.19	38.39	36.52	37.39	41.68	40.04	3201.46	3329.81	3203.34	3226.43	3583.12	3438.65

golgi-associated PDZ and coiled-coil motif containing	Gopc	100761187	14.21	14.99	8.13	8.77	9.93	9.33	1805.42	1904.18	1030.93	1112.56	1249.23	1166.47
golgin, RAB6-interacting	Gorab	100751867	31.13	31.73	39.57	42.96	42.61	42.51	1922.39	1948.11	2450.64	2641.18	2644.39	2616.14
golgi reassembly stacking protein 1, 65kDa	Gorasp1	100755976	36.79	35.81	35.08	32.11	27.63	30.38	2437.36	2385.49	2346.30	2086.06	1778.11	1931.96
golgi reassembly stacking protein 2, 55kDa	Gorasp2	100773471	53.62	49.99	57.32	55.88	55.58	53.23	3168.04	2987.58	3397.11	3285.54	3265.38	3139.56
golgi SNAP receptor complex member 1	Gosr1	100689312	26.45	27.00	25.22	26.17	28.59	29.29	2072.02	2091.77	1978.64	2057.08	2245.92	2333.87
glutamic-oxaloacetic transaminase 1, soluble	Got1	100762297	24.34	23.95	27.48	28.52	26.62	27.97	1354.26	1357.91	1556.33	1601.63	1497.63	1552.49
glutamic-oxaloacetic transaminase 1-like 1	Got1l1	100750547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamic-oxaloacetic transaminase 2, mitochondrial	Got2	100762838	78.66	77.27	78.41	76.30	76.65	79.00	5293.99	5245.89	5348.43	5144.45	5130.43	5313.60
glycoprotein Ib (platelet), alpha polypeptide	Gp1ba	100770316	0.04	0.02	0.00	0.02	0.02	0.03	3.04	0.92	0.00	2.32	2.07	1.87
glycoprotein 2 (zymogen granule membrane)	Gp2	100767123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycoprotein V (platelet)	Gp5	100770950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycoprotein VI (platelet)	Gp6	100766737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycoprotein IX (platelet)	Gp9	100767667	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glycoprotein A33 (transmembrane)	Gpa33	100771877	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.92	0.00	1.16	1.03	0.00
glycosylphosphatidylinositol anchor attachment 1	Gpaa1	100766326	27.93	25.18	35.27	28.01	20.58	25.00	1991.51	1798.04	2568.64	2082.58	1618.72	1898.31
GPALPP motifs containing 1	Gpalpp1	100768616	33.62	33.83	32.26	33.85	37.62	38.05	1202.35	1228.89	1186.19	1257.43	1387.92	1373.03
glycerol-3-phosphate acyltransferase, mitochondrial	Gpam	100760138	42.76	42.69	53.72	54.57	53.41	55.10	7558.17	7638.70	9658.47	9708.27	9453.56	9734.58
G patch domain and ankyrin repeats 1	Gpank1	100763325	58.72	60.97	71.43	55.91	46.93	50.71	2354.57	2456.87	2921.39	2295.82	1960.26	2115.16
glycerol-3-phosphate acyltransferase 2, mitochondrial	Gpat2	100750356	0.00	0.00	0.02	0.00	0.00	0.05	20.51	22.88	19.87	16.22	14.49	18.69
G patch domain containing 1	Gpatch1	100757025	2.25	2.28	2.40	2.19	2.05	2.24	205.84	211.37	203.70	201.65	192.51	205.63
G patch domain containing 11	Gpatch11	100765159	36.93	36.08	37.27	39.52	44.70	39.50	3994.42	3914.51	4052.93	4257.87	4797.16	4260.22
G patch domain containing 2	Gpatch2	100760239	7.43	7.62	8.17	8.35	9.83	9.49	514.21	519.74	541.55	573.67	626.17	628.10
G patch domain containing 2-like	Gpatch2l	100757412	16.08	13.62	14.91	15.59	10.55	12.91	1961.13	1908.76	2029.57	2150.96	2063.76	2162.83
G patch domain containing 3	Gpatch3	100769311	7.64	7.45	7.45	4.95	3.51	3.65	504.33	489.54	488.14	329.13	243.22	248.62
G patch domain containing 4	Gpatch4	100753809	40.17	40.55	39.27	41.37	37.76	38.41	2252.03	2252.81	2182.35	2277.28	2057.55	2128.24
G patch domain containing 8	Gpatch8	100757325	21.98	21.91	16.28	17.92	16.66	16.78	4322.54	4340.92	3264.20	3548.61	3291.26	3310.60
G protein-coupled bile acid receptor 1	Gpbar1	100774722	0.15	0.18	0.13	0.10	0.07	0.23	8.35	13.73	11.18	8.11	10.35	14.02
GC-rich promoter binding protein 1	Gpbp1	100766572	48.12	49.21	50.68	57.29	54.29	52.48	2786.75	2886.02	2963.62	3268.15	3105.99	3006.83
GC-rich promoter binding protein 1-like 1	Gpbp1l1	100750460	37.34	38.90	33.88	36.59	40.56	39.54	3683.01	3877.91	3374.75	3547.45	3905.00	3829.34
glypican 1	Gpc1	100751141	45.73	43.02	42.22	30.53	19.51	23.02	4431.91	4232.03	4146.09	2934.39	1865.05	2213.30

glypican 2	Gpc2	100772009	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glypican 3	Gpc3	100768919	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
glypican 4	Gpc4	100768625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glypican 5	Gpc5	100768469	0.11	0.07	0.15	0.17	0.03	0.07	10.63	9.15	12.42	10.43	5.17	3.74
glypican 6	Gpc6	100767906	9.60	10.06	13.32	13.96	14.55	13.55	1492.49	1581.18	2122.73	2176.45	2306.98	2165.63
glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisiae)	Gpcpd1	100772527	5.18	5.60	6.50	7.50	8.35	7.45	459.52	502.35	573.84	653.63	746.23	668.29
glycerol-3-phosphate dehydrogenase 1 (soluble)	Gpd1	100772179	0.04	0.07	0.03	0.06	0.00	0.04	12.15	11.90	8.69	10.43	8.28	9.35
glycerol-3-phosphate dehydrogenase 1-like	Gpd1l	100773663	5.74	5.31	6.29	6.00	4.49	5.97	208.11	199.48	236.00	215.56	173.88	214.04
glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	Gpd2	100766128	17.64	18.32	20.29	22.33	27.68	26.66	2841.44	2983.92	3296.50	3581.06	4417.32	4254.62
G protein-coupled estrogen receptor 1	Gper1	100767871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
glycoprotein hormone alpha 2	Gpha2	100759178	0.19	0.14	0.06	0.09	0.13	0.12	13.67	14.64	6.21	11.59	10.35	9.35
glycoprotein hormone beta 5	Gphb5	100762212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgi pH regulator	Gphr	100689387	31.83	31.62	37.84	38.15	37.49	39.39	2057.59	2109.15	2458.09	2456.91	2424.97	2509.59
glucose-6-phosphate isomerase	Gpi	100689468	28.02	28.12	37.79	31.32	23.94	26.67	1357.30	1428.37	1835.80	1549.48	1262.68	1313.21
glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1	Gpihbp1	100759460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
G patch domain and KOW motifs	Gpkow	100759434	14.48	13.86	16.85	16.73	15.69	16.74	1264.63	1237.13	1491.75	1477.62	1386.88	1465.56
glycosylphosphatidylinositol specific phospholipase D1	Gpld1	100759513	0.94	1.12	0.91	1.21	1.20	1.24	78.23	88.76	74.53	84.60	94.18	100.01
glycoprotein M6A	Gpm6a	100767618	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glycoprotein M6B	Gpm6b	100765850	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	1.16	1.03	0.00
GPN-loop GTPase 1	Gpn1	100757373	30.40	29.26	35.00	37.50	36.25	36.70	2056.07	1983.79	2309.04	2473.14	2398.06	2414.25
GPN-loop GTPase 2	Gpn2	100769599	24.22	23.84	29.60	28.28	26.75	26.83	931.95	917.78	1115.39	1078.95	992.55	999.16
GPN-loop GTPase 3	Gpn3	100764448	19.37	19.51	26.09	27.57	29.46	28.99	851.44	843.66	1089.31	1116.04	1169.53	1173.01
glycoprotein (transmembrane) nmb	Gpnmb	100761867	13.38	13.63	14.90	14.62	17.18	16.96	1042.85	1059.61	1163.84	1134.58	1341.34	1326.30
G protein-coupled receptor 1	Gpr1	100757115	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
G protein-coupled receptor 101	Gpr101	100762214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 107	Gpr107	100766180	13.32	12.67	13.61	13.41	12.48	13.73	2295.33	2180.52	2358.72	2309.73	2130.00	2361.91
G protein-coupled receptor 108	Gpr108	100764254	17.51	16.87	22.37	24.13	20.31	22.56	1169.69	1124.58	1504.17	1623.65	1340.31	1474.91
G protein-coupled receptor 110	Gpr110	100768933	0.67	0.70	0.33	0.36	0.62	0.47	86.59	89.67	43.47	39.40	75.55	58.88
G protein-coupled receptor 111	Gpr111	100770071	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
G protein-coupled receptor 112	Gpr112	100767655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 113	Gpr113	100758712	0.22	0.18	0.10	0.03	0.11	0.09	41.02	32.03	14.91	11.59	17.59	24.30
G protein-coupled receptor 114	Gpr114	100765170	0.02	0.02	0.09	0.03	0.00	0.00	2.28	1.83	3.73	1.16	1.03	0.93
G protein-coupled receptor 115	Gpr115	100770639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 116	Gpr116	100769211	0.04	0.00	0.00	0.00	0.00	0.00	6.08	0.92	0.00	0.00	0.00	0.00
G protein-coupled receptor 119	Gpr119	100770518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 12	Gpr12	100764513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 123	Gpr123	100772388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

G protein-coupled receptor 124	Gpr124	100751137	32.99	32.11	25.23	18.33	12.90	15.13	4636.23	4620.00	3758.55	2839.35	2117.58	2410.51
G protein-coupled receptor 125	Gpr125	100753965	4.21	3.84	3.31	3.68	3.79	3.63	540.79	495.03	429.76	465.89	484.37	473.88
G protein-coupled receptor 126	Gpr126	100772057	0.04	0.07	0.03	0.02	0.04	0.04	11.39	15.56	6.21	3.48	9.31	11.22
G protein-coupled receptor 128	Gpr128	100759621	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 132	Gpr132	100753002	0.56	0.61	0.54	0.27	0.39	0.09	27.34	25.62	21.12	24.34	15.52	7.48
G protein-coupled receptor 133	Gpr133	100753766	33.23	32.78	5.22	5.63	1.99	2.04	4888.39	4832.29	794.94	826.31	290.83	297.22
G protein-coupled receptor 135	Gpr135	100764113	0.05	0.00	0.09	0.00	0.02	0.00	2.28	0.00	3.73	0.00	2.07	0.00
G protein-coupled receptor 137	Gpr137	100757640	2.36	2.45	2.13	1.47	1.70	1.44	139.76	139.09	141.60	112.42	97.29	91.60
G protein-coupled receptor 137B	Gpr137 b	100764875	12.44	12.16	12.89	13.64	14.22	13.31	685.10	662.48	731.59	752.14	796.94	771.10
G protein-coupled receptor 137C	Gpr137c	100763431	0.00	0.06	0.08	0.07	0.13	0.09	0.00	1.83	1.24	4.64	4.14	2.80
G protein-coupled receptor 139	Gpr139	100766538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 142	Gpr142	100761120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
G protein-coupled receptor 143	Gpr143	100773343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 144	Gpr144	100772777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 146	Gpr146	100768440	0.18	0.18	0.07	0.07	0.05	0.15	19.75	20.13	7.45	8.11	5.17	16.82
G protein-coupled receptor 149	Gpr149	100771902	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 15	Gpr15	100770469	0.04	0.03	0.02	0.02	0.06	0.10	3.80	2.75	1.24	2.32	3.10	5.61
G protein-coupled receptor 151	Gpr151	100765241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 152	Gpr152	100759644	0.28	0.31	0.09	0.15	0.19	0.14	15.19	17.39	6.21	12.75	15.52	11.22
G protein-coupled receptor 153	Gpr153	100755439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
G protein-coupled receptor 155	Gpr155	100766852	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.93
G protein-coupled receptor 156	Gpr156	100761559	1.36	1.68	2.11	2.51	2.52	2.45	139.00	172.03	216.12	251.49	229.77	249.56
G protein-coupled receptor 157	Gpr157	100756989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 158	Gpr158	100757301	0.01	0.00	0.02	0.00	0.00	0.01	0.76	0.00	1.24	0.00	0.00	0.93
G protein-coupled receptor 160	Gpr160	100766599	0.15	0.05	0.08	0.17	0.07	0.08	6.84	2.75	4.97	9.27	2.07	1.87
G protein-coupled receptor 161	Gpr161	100757968	7.01	6.55	8.26	8.76	8.36	8.98	792.20	765.88	915.42	953.79	1003.94	1041.22
G protein-coupled receptor 162	Gpr162	103163106	1.85	1.37	1.57	1.33	1.28	1.41	165.58	130.85	151.53	118.21	111.78	127.12
G protein-coupled receptor 17	Gpr17	103163592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

G protein-coupled receptor 173	Gpr173	100751517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 174	Gpr174	100756360	0.52	0.34	0.21	0.46	0.02	0.02	48.61	43.01	26.08	47.52	2.07	0.93
G protein-coupled receptor 176	Gpr176	100763678	11.58	11.37	19.09	17.88	15.79	16.21	1124.12	1102.62	1878.04	1741.86	1523.50	1582.40
G protein-coupled receptor 179	Gpr179	100763472	0.02	0.01	0.06	0.07	0.01	0.02	4.56	1.83	13.66	18.54	4.14	5.61
G protein-coupled receptor 18	Gpr18	100764954	0.34	0.38	0.19	0.24	0.34	0.29	26.58	32.94	16.15	20.86	30.01	25.24
G protein-coupled receptor 180	Gpr180	100767331	16.49	16.42	13.80	17.75	16.82	16.39	830.18	845.49	701.78	885.41	833.16	806.62
G protein-coupled receptor 182	Gpr182	100752156	0.14	0.17	0.06	0.05	0.08	0.01	9.11	10.98	3.73	4.64	5.17	0.93
G protein-coupled receptor 183	Gpr183	103161487	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 19	Gpr19	100750479	4.29	3.91	4.00	4.22	4.09	3.57	273.43	258.04	268.29	289.73	276.34	255.16
G protein-coupled receptor 20	Gpr20	100772615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 21	Gpr21	100770264	0.09	0.17	0.09	0.13	0.08	0.11	3.04	6.41	3.73	5.79	3.10	5.61
G protein-coupled receptor 22	Gpr22	100753963	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
G protein-coupled receptor 25	Gpr25	100766966	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 3	Gpr3	100759546	0.43	0.28	0.35	0.14	0.35	0.28	24.31	15.56	19.87	8.11	19.66	15.89
G protein-coupled receptor 31	Gpr31	100773323	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 33	Gpr33	100752683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 34	Gpr34	100764606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 35	Gpr35	100770330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 37 (endothelin receptor type B-like)	Gpr37	100758560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 37 like 1	Gpr37l1	100754383	0.02	0.02	0.03	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
G protein-coupled receptor 39	Gpr39	100759577	2.51	2.65	1.99	1.58	1.59	1.37	136.72	140.92	104.34	84.60	93.15	74.77
G protein-coupled receptor 45	Gpr45	100761727	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 50	Gpr50	100772960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 52	Gpr52	100752204	0.26	0.24	0.22	0.16	0.34	0.15	22.79	21.05	19.87	15.07	30.01	13.09
G protein-coupled receptor 55	Gpr55	100750740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 56	Gpr56	100764884	27.37	26.80	3.77	3.53	3.80	3.82	2876.38	2877.78	414.86	373.17	417.10	403.78
G protein-coupled receptor 6	Gpr6	100772414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 61	Gpr61	100772674	0.02	0.00	0.04	0.00	0.06	0.00	0.76	0.00	1.24	0.00	2.07	0.00
G protein-coupled receptor 62	Gpr62	103160720	0.00	0.06	0.13	0.12	0.07	0.06	1.52	2.75	6.21	4.64	3.10	3.74
G protein-coupled receptor 63	Gpr63	100767198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 64	Gpr64	100754781	0.02	0.05	0.00	0.00	0.00	0.00	3.80	7.32	1.24	0.00	0.00	0.00
G protein-coupled receptor 65	Gpr65	100751031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 68	Gpr68	100752950	0.00	0.03	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
G protein-coupled receptor 75	Gpr75	100766988	0.01	0.02	0.00	0.00	0.00	0.02	0.76	1.83	0.00	0.00	1.03	1.87
G protein-coupled receptor 82	Gpr82	100765377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 83	Gpr83	100751464	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.92	1.24	0.00	1.03	0.00
G protein-coupled receptor 84	Gpr84	100771143	0.03	0.03	0.00	0.00	0.04	0.03	0.76	0.92	0.00	0.00	1.03	0.93
G protein-coupled receptor 85	Gpr85	100763062	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
G protein-coupled receptor 87	Gpr87	100770345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor 97	Gpr97	100764587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

G protein-coupled receptor 98	Gpr98	100766602	0.07	0.11	0.01	0.05	0.01	0.15	7.60	10.07	3.73	3.48	6.21	5.61
G protein-coupled receptor associated sorting protein 1	Gprasp1	100769500	6.21	6.31	7.87	8.08	9.24	9.11	800.55	802.48	1016.03	1046.50	1178.85	1178.62
G protein-coupled receptor associated sorting protein 2	Gprasp2	100767299	1.07	0.96	0.87	1.05	0.88	1.22	116.21	90.59	104.34	106.62	86.94	129.92
G protein-coupled receptor, class C, group 5, member A	Gprc5a	100751438	13.80	12.64	11.94	10.13	10.75	10.79	969.93	891.24	865.73	730.12	766.92	779.51
G protein-coupled receptor, class C, group 5, member B	Gprc5b	100762762	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor, class C, group 5, member C	Gprc5c	100750919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein-coupled receptor, class C, group 5, member D	Gprc5d	100751724	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
G protein-coupled receptor, class C, group 6, member A	Gprc6a	100773740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein regulated inducer of neurite outgrowth 1	Gprin1	100767353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein regulated inducer of neurite outgrowth 2	Gprin2	100773657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GPRIN family member 3	Gprin3	100769431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G protein pathway suppressor 1	Gps1	100770684	119.78	117.81	50.70	41.08	26.87	27.68	7069.03	6843.54	2966.10	2365.36	1570.07	1606.70
G protein pathway suppressor 2	Gps2	100766072	27.28	25.03	29.08	26.47	24.31	26.55	957.02	884.84	1023.48	909.75	846.62	918.78
G-protein signaling modulator 1	Gpsm1	100758972	4.02	4.25	4.27	2.95	1.96	2.15	377.49	386.14	406.16	281.62	184.23	216.84
G-protein signaling modulator 2	Gpsm2	100766054	40.60	40.16	32.56	38.15	40.08	38.15	3175.63	3141.31	2528.89	2908.89	3080.12	2958.23
G-protein signaling modulator 3	Gpsm3	100766237	20.92	20.53	20.15	13.40	8.35	10.74	567.38	560.00	537.82	349.99	214.24	271.05
glutamic-pyruvate transaminase (alanine aminotransferase)	Gpt	100760506	0.09	0.11	0.09	0.03	0.05	0.05	8.35	8.24	6.21	4.64	3.10	4.67
glutamic pyruvate transaminase (alanine aminotransferase) 2	Gpt2	100768176	19.50	18.22	18.56	20.26	18.56	19.21	1999.87	1888.63	1935.17	2080.26	1909.55	1998.32
glutathione peroxidase 1	Gpx1	100771188	166.29	166.71	147.68	127.71	95.45	105.41	3567.56	3587.85	3148.69	2668.99	2036.85	2256.29
glutathione peroxidase 2 (gastrointestinal)	Gpx2	100751356	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.93
glutathione peroxidase 3 (plasma)	Gpx3	100764638	0.44	0.49	0.47	0.44	0.58	0.59	60.76	55.82	81.98	77.65	87.97	84.12
glutathione peroxidase 4	Gpx4	100765235	227.36	219.16	271.90	237.19	205.29	229.97	5441.34	5291.64	6560.70	5547.75	4915.15	5410.80
glutathione peroxidase 5 (epididymal androgen-related protein)	Gpx5	100766810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione peroxidase 6 (olfactory)	Gpx6	100766519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
glutathione peroxidase 7	Gpx7	100756109	0.03	0.04	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
glutathione peroxidase 8 (putative)	Gpx8	100775000	88.46	93.64	80.31	88.04	99.99	91.04	3061.70	3228.24	2759.92	3003.92	3400.97	3148.90
GRAM domain containing 1A	Gramd1a	100758316	10.57	9.82	12.40	9.14	6.07	5.96	635.73	592.03	742.77	534.26	352.93	357.98
GRAM domain containing 1B	Gramd1b	100760809	0.14	0.15	0.00	0.00	0.00	0.00	10.63	12.81	0.00	0.00	0.00	0.00
GRAM domain containing 1C	Gramd1c	100773582	0.99	0.91	0.42	0.93	0.83	0.85	93.42	88.76	47.20	64.90	74.52	61.69
GRAM domain containing 2	Gramd2	100755941	0.51	0.41	0.33	0.43	0.55	0.52	46.33	36.60	33.54	35.93	42.43	42.99
GRAM domain containing 3	Gramd3	100752099	6.97	6.55	8.12	8.25	10.16	9.12	488.38	457.52	573.84	572.51	707.93	635.58
GRAM domain containing 4	Gramd4	100763433	14.05	14.95	12.78	13.32	12.36	13.39	1282.86	1356.08	1177.50	1218.02	1147.80	1233.76
GRB2-related adaptor protein 2	Grap2	100769885	0.04	0.03	0.05	0.00	0.00	0.00	2.28	1.83	2.48	0.00	0.00	0.00

GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein	Grasp	100764514	2.21	2.42	2.34	1.37	1.69	1.56	101.02	108.89	81.98	74.17	62.10	54.21
growth factor receptor-bound protein 10	Grb10	100760784	0.01	0.02	0.05	0.08	0.14	0.08	0.76	2.75	8.69	13.91	18.63	10.28
growth factor receptor-bound protein 14	Grb14	100752932	14.79	15.00	18.90	21.62	22.99	22.63	830.94	840.92	1064.47	1134.58	1243.02	1228.16
growth factor receptor-bound protein 2	Grb2	100769627	53.85	52.65	53.75	53.25	51.24	52.33	3832.63	3770.85	3836.81	3765.33	3601.75	3721.85
growth factor receptor-bound protein 7	Grb7	100760569	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
growth regulation by estrogen in breast cancer 1	Greb1	100764943	0.02	0.02	0.04	0.06	0.08	0.09	3.80	3.66	11.18	9.27	15.52	16.82
growth regulation by estrogen in breast cancer-like	Greb1l	100765529	0.02	0.01	0.02	0.00	0.03	0.05	3.80	2.75	3.73	0.00	6.21	12.15
gremlin 1, DAN family BMP antagonist	Grem1	100758320	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
gremlin 2, DAN family BMP antagonist	Grem2	100773984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
grainyhead-like 1 (Drosophila)	Grhl1	100753443	1.74	1.69	0.94	0.89	0.96	0.91	274.95	270.85	154.02	151.82	154.21	143.94
grainyhead-like 2 (Drosophila)	Grhl2	100768148	0.06	0.11	0.04	0.02	0.02	0.00	4.56	7.32	2.48	2.32	1.03	0.93
grainyhead-like 3 (Drosophila)	Grhl3	100757124	0.32	0.41	0.25	0.31	0.42	0.36	29.62	35.69	22.36	24.34	38.29	38.32
glyoxylate reductase/hydroxypyruvate reductase	Grhpr	100752744	8.59	8.76	9.95	9.35	6.43	7.19	348.63	360.52	416.10	372.01	259.78	292.55
glutamate receptor, ionotropic, AMPA 1	Gria1	100769392	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, AMPA 2	Gria2	100764344	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, AMPA 3	Gria3	100770349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, AMPA 4	Gria4	100755681	0.12	0.11	0.10	0.11	0.15	0.28	22.03	20.13	27.33	27.81	42.43	53.28
glutamate receptor, ionotropic, delta 1	Grid1	100760535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, delta 2	Grid2	100769746	0.00	0.04	0.00	0.01	0.00	0.00	0.00	2.75	0.00	1.16	0.00	0.00
glutamate receptor, ionotropic, delta 2 (Grid2) interacting protein	Grid2ip	100766186	0.03	0.01	0.00	0.00	0.00	0.01	3.80	0.92	0.00	1.16	1.03	0.93
glutamate receptor, ionotropic, kainate 1	Grik1	100770303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, kainate 2	Grik2	100754248	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, kainate 3	Grik3	100755668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, kainate 4	Grik4	100767895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, kainate 5	Grik5	100757915	8.42	7.40	8.88	7.35	5.22	6.73	698.78	604.84	730.35	602.64	419.17	538.37
glutamate receptor, ionotropic, N-methyl D-aspartate 1	Grin1	100770880	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.92	1.24	1.16	1.03	0.00
glutamate receptor, ionotropic, N-methyl D-aspartate 2A	Grin2a	100764315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, ionotropic, N-methyl D-aspartate 2B	Grin2b	100753338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

glutamate receptor, ionotropic, N-methyl D-aspartate 2C	Grin2c	100758804	0.06	0.07	0.12	0.07	0.10	0.11	12.15	19.22	40.99	31.29	18.63	28.97
glutamate receptor, ionotropic, N-methyl D-aspartate 2D	Grin2d	100750615	4.23	4.16	2.62	2.49	2.18	2.10	304.58	289.15	183.83	166.88	146.97	156.09
glutamate receptor, ionotropic, N-methyl-D-aspartate 3A	Grin3a	100758947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
glutamate receptor, ionotropic, N-methyl-D-aspartate 3B	Grin3b	100753630	2.99	2.77	2.61	1.71	1.15	1.20	640.29	611.24	542.79	337.25	193.54	230.86
glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	Grina	100753055	38.64	36.39	48.86	48.58	40.08	43.83	1717.32	1618.69	2148.81	2126.62	1767.76	1915.14
glutamate receptor interacting protein 1	Grip1	100767728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor interacting protein 2	Grip2	100774140	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
GRIP1 associated protein 1	Gripap1	100768253	16.78	15.39	15.78	14.74	13.86	16.26	1331.47	1266.41	1293.01	1200.64	1141.59	1288.91
G protein-coupled receptor kinase 1	Grk1	100750718	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
G protein-coupled receptor kinase 4	Grk4	100767022	4.25	4.22	4.16	4.34	5.48	6.07	279.51	272.68	252.14	285.09	368.46	370.13
G protein-coupled receptor kinase 5	Grk5	100771151	2.27	2.21	2.44	2.93	3.14	3.30	287.87	281.83	321.70	383.60	401.57	412.19
G protein-coupled receptor kinase 6	Grk6	103161260	36.77	35.68	33.59	29.65	23.47	25.53	3177.91	3172.42	3022.00	2668.99	2085.50	2246.95
glutamate receptor, metabotropic 1	Grm1	100751598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, metabotropic 2	Grm2	100772929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
glutamate receptor, metabotropic 3	Grm3	100760036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glutamate receptor, metabotropic 4	Grm4	100757229	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
glutamate receptor, metabotropic 5	Grm5	100763614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, metabotropic 6	Grm6	100768692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, metabotropic 7	Grm7	100774073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate receptor, metabotropic 8	Grm8	100758817	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
granulin	Grn	100756647	162.04	154.33	133.43	125.47	103.83	118.33	10283.40	9899.75	8649.89	8076.51	6781.23	7738.13
gastrin-releasing peptide	Grp	100769410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GrpE-like 1, mitochondrial (E. coli)	Grpel1	100768386	122.35	117.01	137.64	136.18	124.32	127.81	3256.14	3120.26	3728.74	3576.43	3275.73	3388.18
GrpE-like 2, mitochondrial (E. coli)	Grpel2	100758874	16.17	16.81	15.34	15.67	15.89	16.61	104.06	94.25	88.19	103.14	97.29	99.07
gastrin-releasing peptide receptor	Grpr	100758098	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
G-rich RNA sequence binding factor 1	Grsf1	100751594	28.10	28.51	33.61	36.13	39.16	33.89	1680.86	1724.84	2015.91	2138.21	2322.51	2030.10
growth hormone regulated TBC protein 1	Grtp1	100760593	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	3.73	1.16	1.03	0.93
glutamate-rich WD repeat containing 1	Grwd1	100774235	28.88	27.11	31.42	25.47	16.94	19.20	1840.36	1755.95	2023.36	1664.21	1099.16	1230.03
glutaredoxin, cysteine rich 2	Grxcr2	100764658	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
gamma-secretase activating protein	Gsap	100760803	1.61	1.56	1.78	1.88	2.67	2.24	177.73	170.20	199.98	199.33	274.27	235.54
goosecoid homeobox	Gsc	100760478	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
goosecoid homeobox 2	Gsc2	103160525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gasdermin D	Gsdmd	100756673	4.20	3.70	4.41	4.01	3.55	3.93	300.78	271.76	308.04	309.43	276.34	287.88
Gse1 coiled-coil protein	Gse1	100771241	1.62	1.65	1.76	1.47	1.30	1.68	334.96	349.54	365.17	297.84	255.64	306.57
germ cell associated 1	Gsg1	100752816	0.00	0.03	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
GSG1-like	Gsg1l	100763426	0.00	0.00	0.00	0.31	0.27	0.00	0.00	0.00	1.24	4.64	3.10	1.87
glycogen synthase kinase 3 alpha	Gsk3a	100757049	35.17	35.77	35.92	31.68	26.84	29.10	1401.35	1423.79	1434.61	1224.98	1040.16	1133.75
glycogen synthase kinase 3 beta	Gsk3b	100760865	12.56	12.09	14.69	16.93	20.36	19.76	1317.04	1303.01	1530.25	1752.29	2118.62	2016.08

GSK3B interacting protein	Gskip	100770423	26.13	26.09	29.38	28.47	32.12	32.62	1139.31	1184.05	1345.18	1300.31	1457.26	1465.56
gelsolin	Gsn	100753350	8.78	9.28	6.84	5.63	5.24	5.00	310.65	340.39	188.80	201.65	170.77	175.72
G1 to S phase transition 1	Gspt1	100753280	91.18	96.29	97.51	107.53	107.74	102.51	6023.91	6472.95	6556.98	7138.95	7062.75	6721.21
G1 to S phase transition 2	Gspt2	100767578	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione reductase	Gsr	100757970	9.63	9.24	8.55	10.55	11.43	9.82	540.03	523.40	476.96	574.82	633.41	542.11
glutathione synthetase	Gss	100753200	189.41	182.39	216.57	215.85	211.99	236.60	10913.06	10726.02	12673.01	12457.23	12285.29	13425.60
glutathione S-transferase kappa 1	Gstk1	100750404	2.14	1.57	2.32	2.05	1.63	2.19	101.78	97.91	137.87	117.05	95.22	109.36
glutathione S-transferase mu 3 (brain)	Gstm3	100750357	173.39	168.69	131.31	131.89	127.74	141.16	3837.95	3698.57	2817.05	2780.25	2717.87	2992.81
glutathione S-transferase omega 1	Gsto1	100758427	29.28	31.07	35.39	36.89	36.58	37.21	469.40	480.39	583.78	628.13	652.04	647.73
glutathione S-transferase, pi 1	Gstp1	100689311	218.76	212.29	365.93	352.77	271.86	317.89	3632.12	3550.33	6092.44	5641.62	4310.72	4961.23
glutathione S-transferase zeta 1	Gstz1	100764455	4.80	5.36	3.30	4.77	4.33	5.11	176.97	176.60	127.93	159.93	159.39	167.31
GS homeobox 1	Gsx1	100762769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GS homeobox 2	Gsx2	100765381	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycosyltransferase-like domain containing 1	Gtdc1	100752161	7.61	6.49	7.98	9.43	9.07	9.02	437.49	419.09	447.15	507.61	497.83	511.26
general transcription factor IIA, 1, 19/37kDa	Gtf2a1	100750765	17.53	17.58	15.59	17.33	17.18	16.29	1895.81	1918.83	1732.71	1905.26	1861.94	1810.46
general transcription factor IIA, 1-like	Gtf2a1l	100769468	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
general transcription factor IIA, 2, 12kDa	Gtf2a2	100750331	113.11	116.57	115.54	112.47	129.05	129.54	1863.91	1957.26	1933.93	1836.89	2120.69	2121.70
general transcription factor IIB	Gtf2b	100754725	22.58	23.18	26.11	29.24	29.63	29.52	921.32	931.50	1035.90	1184.42	1148.83	1119.73
general transcription factor IIE, polypeptide 1, alpha 56kDa	Gtf2e1	100763009	24.28	25.28	23.97	24.86	23.94	25.03	2055.31	2132.94	2037.02	2091.85	2013.05	2116.09
general transcription factor IIE, polypeptide 2, beta 34kDa	Gtf2e2	100754209	20.95	17.85	17.27	19.42	20.98	20.76	773.97	682.62	637.19	706.94	802.11	776.71
general transcription factor IIF, polypeptide 1, 74kDa	Gtf2f1	100762222	59.97	58.46	68.64	57.56	46.52	52.16	3123.98	3130.33	3670.37	3035.21	2486.04	2731.10
general transcription factor IIF, polypeptide 2, 30kDa	Gtf2f2	100768332	50.34	50.96	55.44	54.52	51.59	52.85	2168.48	2206.15	2361.21	2225.13	2183.82	2202.08
general transcription factor IIH, polypeptide 1, 62kDa	Gtf2h1	100751383	65.02	66.25	60.89	65.57	67.02	68.48	5118.53	5230.33	4831.72	5140.97	5249.45	5352.85
general transcription factor IIH, polypeptide 3, 34kDa	Gtf2h3	100768069	28.83	28.42	25.32	30.36	31.23	31.13	1734.79	1726.67	1545.16	1829.93	1890.92	1869.34
general transcription factor IIH, polypeptide 4, 52kDa	Gtf2h4	103160241	23.50	22.73	29.10	23.79	15.14	17.79	1319.32	1267.32	1666.88	1369.84	942.87	1030.94
general transcription factor IIH, polypeptide 5	Gtf2h5	100772736	146.19	149.62	166.89	168.03	169.05	175.72	2533.06	2677.39	2957.41	2892.66	2861.74	2936.73
general transcription factor IIi	Gtf2i	100771695	16.63	16.75	17.99	18.03	18.96	18.53	2179.12	2230.85	2397.23	2359.56	2509.84	2375.00
GTF2I repeat domain containing 1	Gtf2ird1	100769489	11.02	9.26	11.35	11.15	9.56	10.61	1111.97	1045.88	1254.51	1253.95	1055.69	1144.97
general transcription factor IIIA	Gtf3a	100763921	74.27	70.27	70.48	71.50	64.64	66.60	2720.67	2652.68	2751.22	2631.91	2382.54	2460.05
general transcription factor IIIC, polypeptide 1, alpha 220kDa	Gtf3c1	100763706	18.38	18.23	18.64	17.93	17.17	18.14	3853.90	3893.47	4000.76	3807.05	3655.57	3831.21
general transcription factor IIIC, polypeptide 2, beta 110kDa	Gtf3c2	100766655	32.53	33.30	35.40	36.17	32.65	35.10	3486.29	3511.90	3838.05	3791.99	3352.32	3591.00
general transcription factor IIIC, polypeptide 3, 102kDa	Gtf3c3	100759578	40.54	41.88	39.03	45.46	46.74	45.36	4155.44	4344.58	4036.78	4612.50	4770.25	4646.24
general transcription factor IIIC, polypeptide 4, 90kDa	Gtf3c4	100773467	9.15	8.48	10.58	11.61	10.85	11.28	833.97	795.16	978.76	1074.32	991.52	1055.24
general transcription factor IIIC, polypeptide 5, 63kDa	Gtf3c5	100770779	28.00	28.53	29.97	29.83	26.13	28.39	1986.20	2029.54	2153.78	2068.67	1818.47	1987.11

general transcription factor IIIC, polypeptide 6, alpha 35kDa	Gtf3c6	100770634	78.16	80.02	65.59	70.89	75.62	69.80	1693.77	1726.67	1430.88	1521.66	1605.26	1474.91
GTP binding protein 1	Gtpbp1	100773534	19.32	19.25	22.13	19.95	18.77	20.65	1865.43	1879.48	2188.56	1962.05	1818.47	1991.78
GTP-binding protein 10 (putative)	Gtpbp10	100768924	22.12	22.15	17.14	20.05	21.82	19.84	1394.51	1406.41	1085.58	1249.32	1354.80	1247.78
GTP binding protein 2	Gtpbp2	100758529	50.40	49.40	50.20	45.44	31.94	37.17	4322.54	4340.92	4315.01	3909.04	2777.90	3191.90
GTP binding protein 3 (mitochondrial)	Gtpbp3	100751349	13.11	12.28	12.61	8.20	5.61	6.36	771.69	724.71	744.01	462.41	317.74	354.24
GTP binding protein 4	Gtpbp4	100753267	113.20	111.68	94.86	108.00	106.60	100.61	9458.54	9386.41	7959.29	8928.32	8822.22	8248.46
GTP binding protein 6 (putative)	Gtpbp6	100761234	3.77	3.86	6.45	4.88	2.49	3.58	217.23	198.56	335.36	241.06	138.69	175.72
GTP-binding protein 8 (putative)	Gtpbp8	100766372	7.97	7.88	9.05	7.83	9.66	8.76	324.32	349.54	411.13	360.42	409.85	381.35
G-2 and S-phase expressed 1	Gtse1	100758123	33.84	34.45	27.23	27.72	25.27	26.06	2549.77	2640.79	2095.40	2109.23	1944.74	1979.63
gametocyte specific factor 1	Gtsf1	100769899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.93
gametocyte specific factor 1-like	Gtsf1l	100772957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	2.07	2.80
guanylate cyclase activator 1A (retina)	Guca1a	100766612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate cyclase activator 1B (retina)	Guca1b	100766902	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate cyclase activator 2A (guanylin)	Guca2a	100755664	0.26	0.21	0.39	0.18	0.19	0.23	9.87	9.15	12.42	5.79	7.24	7.48
guanylate cyclase activator 2B (uroguanylin)	Guca2b	100758844	0.00	0.11	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylyl cyclase domain containing 1	Gucd1	100767981	15.44	15.81	18.94	18.62	16.71	16.90	1160.58	1192.29	1440.82	1405.77	1257.51	1274.89
guanylate cyclase 1, soluble, alpha 2	Gucy1a 2	100769238	0.00	0.05	0.00	0.03	0.00	0.03	0.76	0.92	0.00	1.16	0.00	0.93
guanylate cyclase 1, soluble, alpha 3	Gucy1a 3	100768699	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
guanylate cyclase 1, soluble, beta 3	Gucy1b 3	100772822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate cyclase 2C (heat stable enterotoxin receptor)	Gucy2c	100757969	0.12	0.07	0.25	0.25	0.10	0.13	13.67	8.24	28.57	33.61	11.38	19.63
guanylate cyclase 2D, membrane (retina-specific)	Gucy2d	100754759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GUF1 GTPase homolog (S. cerevisiae)	Guf1	100756221	16.38	16.67	16.48	18.48	19.52	19.80	972.21	1012.03	1021.00	1103.29	1171.60	1180.49
guanylate kinase 1	Guk1	100770439	78.66	69.30	75.49	69.05	57.79	64.27	2235.32	1998.43	2208.43	1965.53	1652.87	1800.17
GULP, engulfment adaptor PTB domain containing 1	Gulp1	100759296	33.13	32.36	37.90	36.83	40.55	39.10	864.36	872.94	1011.06	1009.42	1213.00	1186.10
glucuronidase, beta	Gusb	100757362	44.75	46.41	81.09	84.48	72.71	72.16	2868.78	2993.99	5159.63	5305.54	4593.27	4570.53
glucoside xylosyltransferase 1	Gxylt1	100760543	4.75	4.31	3.41	4.39	3.81	3.66	893.22	819.87	652.10	829.79	716.21	701.00
glucoside xylosyltransferase 2	Gxylt2	100758512	0.02	0.00	0.00	0.03	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
glycogenin 1	Gyg1	100751671	46.81	49.37	76.00	77.74	67.39	67.27	2271.78	2381.83	3685.27	3724.77	3233.30	3254.52
glycosyltransferase-like 1B	Gyltl1b	100750932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycophorin C (Gerbich blood group)	Gypc	100773140	26.87	25.01	31.31	33.19	30.90	30.14	1422.62	1320.39	1656.94	1738.38	1602.16	1576.79
glycogen synthase 1 (muscle)	Gys1	100769788	11.81	12.10	12.76	11.48	9.86	10.24	1210.71	1240.79	1355.12	1194.85	1060.86	1075.80
glycogen synthase 2 (liver)	Gys2	100770628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GDNF-inducible zinc finger protein 1	Gzf1	100763705	8.62	8.70	10.13	10.21	10.60	10.28	1000.31	1012.03	1181.22	1192.53	1223.35	1197.31
granzyme K (granzyme 3; tryptase II)	Gzmk	100774132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme M (lymphocyte met-ase 1)	Gzmm	100764748	2.27	2.29	1.65	1.76	1.37	1.18	95.70	88.76	80.74	69.54	63.13	57.01
H3 histone, family 3A	H3f3a	100753137	377.59	379.26	364.86	367.68	393.35	397.78	5982.13	5849.81	5929.72	6065.79	6372.41	6559.51
H3 histone, family 3B (H3.3B)	H3f3b	100757430	287.10	289.45	346.44	370.82	370.00	384.85	7877.94	8270.07	9924.27	10643.52	10426.45	10730.94

hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	H6pd	100770090	7.08	6.60	9.06	7.60	6.07	6.69	1124.12	1045.88	1459.45	1214.55	956.33	1062.72
3-hydroxyanthranilate 3,4-dioxygenase	Haao	100759566	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
hyaluronan binding protein 2	Habp2	100774748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
hyaluronan binding protein 4	Habp4	100760637	10.67	11.15	14.21	13.75	12.42	12.94	994.24	1034.90	1286.80	1213.39	1134.34	1151.51
HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1	Hace1	100769328	44.97	45.64	20.91	22.71	25.15	26.23	2304.44	2341.57	1084.34	1193.69	1314.43	1320.69
2-hydroxyacyl-CoA lyase 1	Hacl1	100767514	84.92	81.82	86.44	90.03	99.30	101.46	6324.68	6203.01	6414.14	6648.72	7385.66	7599.80
hydroxyacyl-CoA dehydrogenase	Hadh	100761491	127.23	136.13	178.20	198.30	182.39	203.09	2796.62	2952.81	4047.96	4151.25	4017.82	4269.57
hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), alpha subunit	Hadha	100757947	45.01	44.17	45.27	47.00	47.89	46.13	3856.18	3864.19	3970.95	4036.52	4146.16	3989.17
hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit	Hadhb	100758239	43.19	43.19	41.39	43.88	50.62	54.86	2516.35	2551.11	2415.86	2494.00	2895.89	3151.71
hydroxyacylglutathione hydrolase	Hagh	100765715	15.26	13.74	12.12	12.03	14.32	14.82	859.80	782.35	691.84	668.70	787.62	804.75
hydroxyacylglutathione hydrolase-like	Haghl	100772931	0.05	0.06	0.12	0.00	0.07	0.09	4.56	4.58	3.73	1.16	3.10	2.80
histidine ammonia-lyase	Hal	100753802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hepcidin antimicrobial peptide	Hamp	100757672	0.00	0.59	0.00	0.00	0.00	0.21	0.76	4.58	2.48	1.16	0.00	2.80
heart and neural crest derivatives expressed 1	Hand1	100767952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heart and neural crest derivatives expressed 2	Hand2	100763212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hydroxyacid oxidase (glycolate oxidase) 1	Hao1	100771827	0.18	0.19	0.19	0.43	0.56	0.54	9.11	11.90	14.91	28.97	36.22	36.45
hydroxyacid oxidase 2 (long chain)	Hao2	100773170	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
huntingtin-associated protein 1	Hap1	100757326	0.11	0.16	0.00	0.02	0.00	0.01	19.75	16.47	2.48	1.16	0.00	0.93
hyaluronan and proteoglycan link protein 1	Hapln1	100766601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hyaluronan and proteoglycan link protein 3	Hapln3	100763907	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	3.48	0.00	0.93
hyaluronan and proteoglycan link protein 4	Hapln4	100764042	11.14	11.08	12.20	10.76	8.76	10.06	1064.11	1063.27	1177.50	1022.17	827.99	963.64
harbinger transposase derived 1	Harbi1	100753396	8.78	8.17	8.70	9.43	10.13	9.45	424.58	390.72	412.37	448.50	492.65	453.31
histidyl-tRNA synthetase	Hars	100757635	26.83	26.79	28.13	30.00	27.05	28.15	1490.98	1518.04	1576.21	1661.89	1520.39	1547.81
histidyl-tRNA synthetase 2, mitochondrial	Hars2	100757923	9.48	10.04	10.83	12.57	10.73	10.50	506.61	573.73	607.38	698.83	618.92	601.93
hyaluronan synthase 2	Has2	100751055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hyaluronan synthase 3	Has3	100757895	0.49	0.63	0.72	0.61	0.61	0.78	25.82	32.03	42.23	38.24	36.22	44.86
histone acetyltransferase 1	Hat1	100768382	75.00	76.59	82.78	83.06	94.04	95.68	3140.69	3221.83	3431.89	3386.36	3862.57	3920.94
HAUS augmin-like complex, subunit 1	Haus1	100770145	9.45	9.61	9.37	10.41	13.29	11.99	432.18	455.69	435.97	483.27	615.82	556.13
HAUS augmin-like complex, subunit 2	Haus2	100757195	29.57	31.11	33.46	34.71	37.14	36.08	1538.07	1619.61	1750.10	1816.03	1937.49	1854.38
HAUS augmin-like complex, subunit 3	Haus3	100770464	10.90	11.30	14.17	14.62	16.54	16.28	1096.02	1143.79	1415.98	1452.13	1637.35	1631.00
HAUS augmin-like complex, subunit 4	Haus4	100769299	38.95	39.28	37.90	41.55	45.33	44.12	1534.27	1551.90	1488.02	1638.71	1751.20	1732.88

HAUS augmin-like complex, subunit 5	Haus5	100751456	1.79	1.82	2.15	1.84	1.39	1.71	179.25	183.92	218.61	180.79	134.55	167.31
HAUS augmin-like complex, subunit 6	Haus6	100761416	34.41	32.97	38.56	46.53	46.35	44.24	890.18	855.56	1049.56	1229.61	1238.88	1211.33
HAUS augmin-like complex, subunit 7	Haus7	100753533	17.72	16.94	20.39	20.73	21.65	19.89	802.83	753.07	878.16	909.75	966.68	883.26
HAUS augmin-like complex, subunit 8	Haus8	100754778	9.26	9.86	10.65	9.82	9.28	9.34	559.02	597.52	642.16	596.84	569.24	571.08
hepatitis A virus cellular receptor 2	Havcr2	100769794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HCLS1 associated protein X-1	Hax1	100761361	114.43	111.20	113.59	121.01	117.85	122.54	3519.70	3467.98	3562.31	3734.04	3663.85	3715.31
hemoglobin, epsilon 1	Hbe1	100768374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heparin-binding EGF-like growth factor	Hbegf	100689423	6.27	6.81	5.73	6.39	6.41	6.87	322.80	344.97	305.55	322.18	330.16	348.63
HMG-box transcription factor 1	Hbp1	100766157	56.27	57.21	61.25	62.31	65.15	64.94	3149.05	3141.31	3419.47	3428.09	3594.51	3572.31
HBS1-like (S. cerevisiae)	Hbs1l	100750806	48.66	49.28	54.19	56.85	57.68	55.33	3805.29	3887.98	4315.01	4440.98	4499.09	4371.45
hemoglobin, zeta	Hbz	100758314	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
hydroxycarboxylic acid receptor 1	Hcar1	100766347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hydroxycarboxylic acid receptor 2	Hcar2	100765472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
host cell factor C1 (VP16-accessory protein)	Hcfc1	100774489	46.59	44.22	46.14	42.99	32.62	34.98	8671.66	8208.77	8653.62	7946.71	6082.61	6524.93
host cell factor C1 regulator 1 (XPO1 dependent)	Hcfc1r1	100768272	186.25	187.90	163.05	122.69	99.96	113.42	3063.22	3101.05	2655.58	1987.55	1650.80	1833.82
host cell factor C2	Hcfc2	100774776	6.06	6.24	5.24	6.43	7.36	7.23	985.88	1021.18	870.70	1033.76	1185.06	1152.45
hemopoietic cell kinase	Hck	100773315	0.00	0.02	0.00	0.00	0.00	0.04	0.00	1.83	1.24	0.00	1.03	1.87
hematopoietic cell-specific Lyn substrate 1	Hcls1	100764646	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
hyperpolarization activated cyclic nucleotide-gated potassium channel 1	Hcn1	100753109	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
hyperpolarization activated cyclic nucleotide-gated potassium channel 2	Hcn2	100751563	0.01	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
hyperpolarization activated cyclic nucleotide-gated potassium channel 3	Hcn3	100772247	0.83	0.67	0.63	0.69	0.66	0.65	87.35	69.54	64.59	70.69	67.27	68.23
hyperpolarization activated cyclic nucleotide-gated potassium channel 4	Hcn4	100758754	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hypocretin (orexin) neuropeptide precursor	Hcrt	100754701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hypocretin (orexin) receptor 1	Hcrtr1	100773491	0.14	0.07	0.07	0.07	0.10	0.04	8.35	7.32	6.21	8.11	7.24	3.74
hypocretin (orexin) receptor 2	Hcrtr2	100762569	0.02	0.00	0.00	0.00	0.03	0.00	1.52	2.75	0.00	0.00	1.03	0.00
histone deacetylase 1	Hdac1	100752721	83.05	83.39	77.71	85.31	85.55	87.91	4986.37	5115.04	4733.59	5152.56	5166.65	5258.45
histone deacetylase 10	Hdac10	100758596	0.01	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
histone deacetylase 11	Hdac11	100772691	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone deacetylase 2	Hdac2	100764557	89.81	91.82	84.73	96.74	100.45	95.38	4610.40	4811.25	4452.88	4932.36	5157.34	4839.72
histone deacetylase 3	Hdac3	100752639	22.63	22.81	22.95	24.60	26.17	28.24	1315.52	1323.14	1329.03	1384.91	1447.95	1577.72
histone deacetylase 4	Hdac4	100767877	14.00	13.02	16.00	13.72	11.26	11.99	1767.45	1680.92	2075.53	1777.78	1486.24	1553.42
histone deacetylase 5	Hdac5	100689350	19.88	18.94	14.96	10.95	8.19	9.60	2179.12	2100.00	1679.30	1218.02	913.89	1044.03

histone deacetylase 6	Hdac6	100763688	27.71	26.27	28.40	28.15	27.62	28.67	3349.57	3252.03	3511.38	3407.22	3350.25	3445.19
histone deacetylase 7	Hdac7	100766171	6.81	6.40	5.52	5.11	4.17	4.10	785.36	743.01	642.16	586.41	483.34	483.22
histone deacetylase 9	Hdac9	100757696	0.21	0.23	0.14	0.11	0.33	0.27	27.34	31.11	16.15	16.22	36.22	30.84
histidine decarboxylase	Hdc	100753889	0.05	0.06	0.04	0.02	0.00	0.02	4.56	3.66	2.48	1.16	0.00	0.93
HD domain containing 2	Hddc2	100753668	62.26	55.84	26.18	27.54	25.95	26.80	1314.00	1235.30	561.42	584.10	547.51	562.67
HD domain containing 3	Hddc3	100764720	67.02	64.68	79.79	72.13	66.97	75.35	1576.80	1542.75	1873.07	1644.51	1547.30	1706.71
hepatoma-derived growth factor	Hdgf	100761454	269.04	276.83	310.86	317.99	305.13	321.14	8756.73	8981.97	9761.56	9864.73	8977.47	10042.09
haloacid dehalogenase-like hydrolase domain containing 1	Hdhd1	100774390	10.15	10.21	10.89	10.78	10.19	10.14	672.95	682.62	726.62	720.85	668.60	675.77
haloacid dehalogenase-like hydrolase domain containing 2	Hdhd2	100772344	14.22	14.73	15.64	15.23	16.75	17.27	793.72	823.53	871.94	846.01	944.94	969.25
haloacid dehalogenase-like hydrolase domain containing 3	Hdhd3	100752613	3.87	2.85	4.37	4.12	3.93	3.79	120.77	87.84	135.39	124.00	116.95	114.03
high density lipoprotein binding protein	Hdlbp	100772142	93.53	93.30	92.90	101.23	99.79	100.57	17408.64	17600.67	17647.57	18986.58	18609.05	18663.48
highly divergent homeobox	Hdx	100754145	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
HEAT repeat containing 1	Heatr1	100763985	35.85	34.60	34.43	37.64	38.50	39.24	7374.37	7156.48	7127.09	7665.10	7827.60	8026.01
HEAT repeat containing 2	Heatr2	100771212	10.72	9.90	10.46	9.59	7.64	8.74	947.15	883.01	948.95	854.12	677.92	762.69
HEAT repeat containing 3	Heatr3	100756422	22.37	22.42	21.64	22.81	24.75	22.62	2081.90	2121.05	2022.12	2080.26	2240.75	2082.44
HEAT repeat containing 4	Heatr4	100752922	3.35	3.71	4.01	3.73	4.13	4.45	519.52	584.71	591.23	574.82	651.01	705.68
HEAT repeat containing 5A	Heatr5a	100764339	11.46	11.60	10.74	12.11	15.16	14.69	1677.82	1668.11	1622.17	1784.74	2010.98	2031.04
HEAT repeat containing 5B	Heatr5b	100764477	7.12	6.72	6.33	6.96	7.19	7.13	1522.12	1473.20	1396.11	1520.50	1556.62	1534.73
HEAT repeat containing 6	Heatr6	100773538	4.60	4.41	2.06	2.03	1.97	2.11	602.31	591.11	276.99	270.03	256.68	288.81
HEAT repeat containing 9	Heatr9	100751967	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
heme binding protein 1	Hebp1	100752514	32.97	31.56	35.96	34.20	32.68	37.94	883.34	839.09	951.44	893.53	863.18	999.16
heme binding protein 2	Hebp2	100771345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
headcase homolog (Drosophila)	Heca	100774249	9.84	9.98	14.05	15.30	14.46	14.55	1336.03	1346.01	1923.99	2074.47	1950.95	1979.63
HECT domain containing E3 ubiquitin protein ligase 1	Hectd1	100762999	30.32	29.06	30.42	36.18	35.08	32.45	7829.33	7482.23	7848.75	9227.32	8900.88	8340.06
HECT domain containing E3 ubiquitin protein ligase 2	Hectd2	100769372	3.11	3.15	3.53	3.87	4.80	4.39	424.58	422.75	464.54	504.13	652.04	595.38
HECT domain containing E3 ubiquitin protein ligase 3	Hectd3	100762194	29.74	29.62	35.14	32.99	31.70	32.15	2790.55	2810.07	3343.70	3072.30	2965.24	3014.31
HECT domain containing E3 ubiquitin protein ligase 4	Hectd4	100771362	5.27	5.13	3.93	3.87	3.94	3.89	2503.44	2448.63	1910.33	1857.75	1899.20	1863.73
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	Hecw1	100752038	0.01	0.01	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	Hecw2	100767617	0.04	0.06	0.01	0.02	0.05	0.03	9.11	14.64	3.73	5.79	11.38	6.54
heart development protein with EGF-like domains 1	Heg1	100764801	17.39	16.73	11.57	11.82	8.10	8.00	3102.72	3035.17	2109.06	2132.41	1453.12	1452.48
helicase (DNA) B	Helb	100771259	4.77	4.95	4.67	5.57	6.42	6.82	692.70	707.32	681.91	800.81	918.03	983.27
helicase, lymphoid-specific	Hells	100754676	28.04	30.34	34.31	39.67	41.21	36.15	2254.31	2421.18	2725.14	3107.06	3282.98	2878.78
helicase, POLQ-like	Helq	100767150	7.20	7.52	7.23	7.45	8.86	8.44	747.39	774.12	782.51	781.11	926.31	898.22
helt bHLH transcription factor	Helt	100751200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
helicase with zinc finger	Helz	100766882	4.90	4.82	4.24	4.53	4.53	4.24	937.27	927.84	819.78	879.62	876.63	829.05

helicase with zinc finger 2, transcriptional coactivator	Helz2	100767179	6.22	5.43	5.00	4.76	4.13	4.65	1866.95	1649.81	1527.77	1456.76	1259.58	1406.68
hemogen	Hemgn	100770706	0.04	0.00	0.09	0.03	0.00	0.00	1.52	0.92	3.73	3.48	0.00	0.93
HemK methyltransferase family member 1	Hemk1	100750477	6.62	6.31	5.71	5.44	5.71	5.89	364.58	351.37	319.22	327.97	341.55	357.98
HEPACAM family member 2	Hepacam2	100765391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hephaestin	Heph	100753439	0.01	0.01	0.01	0.03	0.02	0.00	1.52	1.83	2.48	4.64	2.07	0.00
hephaestin-like 1	Hephl1	100752039	0.02	0.02	0.03	0.01	0.04	0.04	8.35	10.07	8.69	12.75	14.49	11.22
HECT and RLD domain containing E3 ubiquitin protein ligase family member 1	Herc1	100772726	6.39	6.34	5.93	6.45	6.81	6.82	3013.85	3047.98	2865.49	3095.48	3268.49	3262.93
HECT and RLD domain containing E3 ubiquitin protein ligase 3	Herc3	100752767	2.39	2.69	2.73	3.49	3.73	3.41	188.37	213.20	212.40	268.87	287.73	268.25
HECT and RLD domain containing E3 ubiquitin protein ligase 4	Herc4	100758073	21.50	22.26	22.00	25.54	29.53	27.64	2492.05	2591.37	2542.55	2932.07	3375.09	3178.81
HECT and RLD domain containing E3 ubiquitin protein ligase family member 6	Herc6	100767771	0.36	1.09	0.28	0.04	0.00	0.00	24.31	18.30	2.48	3.48	1.03	0.93
homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	Herpud1	100758367	47.37	45.88	50.48	51.73	45.45	48.35	2533.06	2444.05	2716.44	2740.85	2410.48	2591.84
HERPUD family member 2	Herpud2	100772076	16.80	16.34	22.47	25.16	24.96	24.55	1144.63	1146.54	1543.91	1711.72	1710.83	1674.93
hes family bHLH transcription factor 1	Hes1	100752756	6.69	8.08	4.07	4.84	7.62	6.97	94.94	109.80	55.89	64.90	101.43	89.73
hes family bHLH transcription factor 2	Hes2	100756407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hes family bHLH transcription factor 3	Hes3	100754865	0.18	0.00	0.00	0.00	0.00	0.00	3.04	0.92	1.24	1.16	0.00	0.00
hes family bHLH transcription factor 6	Hes6	100772285	11.26	11.75	11.76	11.48	9.32	10.18	395.72	400.78	403.68	381.28	309.46	341.15
HESX homeobox 1	Hesx1	100770203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hexosaminidase A (alpha polypeptide)	Hexa	100750552	16.21	15.01	25.46	24.63	27.95	26.86	912.21	859.22	1438.34	1386.07	1554.55	1514.16
hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing	Hexdc	100773287	17.72	16.36	6.00	5.25	4.38	4.95	978.29	907.71	317.97	289.73	246.33	263.58
hexamethylene bis-acetamide inducible 1	Hexim1	100760203	18.93	18.04	10.40	7.69	6.46	6.17	1199.31	1150.20	660.79	491.38	415.03	395.37
hexamethylene bis-acetamide inducible 2	Hexim2	100760493	2.93	2.89	1.85	1.16	1.05	1.48	177.73	184.84	106.82	76.49	69.34	91.60
hes-related family bHLH transcription factor with YRPW motif 1	Hey1	100752534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hes-related family bHLH transcription factor with YRPW motif 2	Hey2	100755611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hes-related family bHLH transcription factor with YRPW motif-like	Heyl	100771786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hemochromatosis	Hfe	100762132	5.37	5.53	6.23	6.73	7.39	7.10	374.45	398.95	434.73	467.04	521.63	517.81
hemochromatosis type 2 (juvenile)	Hfe2	100773682	0.03	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFM1, ATP-dependent DNA helicase homolog (S. cerevisiae)	Hfm1	100761873	0.00	0.00	0.01	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.93
homogentisate 1,2-dioxygenase	Hgd	100762426	0.00	0.05	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
hepatocyte growth factor (hepapoietin A; scatter factor)	Hgf	100764472	2.49	2.65	2.20	2.78	4.06	3.39	458.76	490.46	407.40	511.08	725.53	622.49
HGF activator	Hgfac	100765604	0.00	0.00	0.02	0.02	0.00	0.02	3.04	0.00	2.48	5.79	1.03	0.93

hepatocyte growth factor-regulated tyrosine kinase substrate	Hgs	100765681	79.80	76.57	44.37	36.50	26.04	29.40	5896.30	5676.87	3408.29	2777.93	1915.76	2110.48
heparan-alpha-glucosaminide N-acetyltransferase	Hgsnat	100752593	11.99	12.36	14.11	15.76	16.75	15.89	1044.37	1098.04	1234.63	1340.87	1424.14	1352.47
hedgehog acyltransferase	Hhat	100761049	0.03	0.02	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
hedgehog acyltransferase-like	Hhatl	100771282	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
hematopoietically expressed homeobox	Hhex	100751343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hedgehog interacting protein	Hhip	100771283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HHIP-like 1	Hhipl1	100769577	2.94	2.65	3.10	3.11	3.26	3.41	448.89	414.51	475.72	469.36	481.27	510.33
HHIP-like 2	Hhipl2	100755908	0.34	0.19	0.43	0.58	0.35	0.39	31.14	19.22	45.96	56.79	45.54	44.86
HERV-H LTR-associating 2	Hhla2	103161012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hippocampus abundant transcript 1	Hiat1	100772600	25.68	24.15	26.76	27.96	28.44	27.46	2048.48	1946.28	2119.00	2233.24	2290.42	2214.23
hippocampus abundant transcript-like 1	Hiatl1	100752082	13.72	14.69	14.51	15.73	18.85	17.73	1323.88	1413.73	1404.80	1513.55	1787.42	1692.69
3-hydroxyisobutyrate dehydrogenase	Hibadh	100760581	38.29	39.84	46.41	46.81	52.05	52.20	1828.97	1929.81	2239.48	2213.54	2428.08	2454.44
3-hydroxyisobutyryl-CoA hydrolase	Hibch	100759780	18.00	17.97	17.31	17.90	20.08	19.04	1128.68	1171.24	1096.76	1095.18	1256.47	1189.83
hypermethylated in cancer 1	Hic1	100767977	5.85	5.69	5.34	2.58	1.62	1.91	532.44	522.48	490.62	236.42	149.04	176.65
hypermethylated in cancer 2	Hic2	100751153	1.67	1.80	1.40	1.23	1.16	1.34	214.95	229.67	182.59	158.77	153.18	178.52
HID1 domain containing	Hid1	100772114	1.33	1.30	1.04	1.22	1.17	1.21	132.16	129.93	108.06	113.57	108.67	116.83
hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	Hif1a	100751293	27.23	28.31	29.50	32.21	33.53	31.57	2928.02	3040.66	3173.53	3429.24	3567.60	3365.75
hypoxia inducible factor 1, alpha subunit inhibitor	Hif1an	100752342	12.81	12.01	11.89	12.07	12.79	13.35	556.74	490.46	494.35	507.61	523.70	544.91
hypoxia inducible factor 3, alpha subunit	Hif3a	100761594	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HIG1 hypoxia inducible domain family, member 1A	Higd1a	100766684	80.35	73.54	68.93	72.83	72.92	83.74	660.04	616.73	580.05	578.30	599.26	657.07
HIG1 hypoxia inducible domain family, member 1B	Higd1b	100764860	0.32	0.27	0.22	0.17	0.25	0.17	29.62	32.03	19.87	17.38	21.73	19.63
HIG1 hypoxia inducible domain family, member 2A	Higd2a	100750940	22.82	21.50	20.29	14.55	12.28	13.00	352.43	321.18	317.97	223.67	182.16	192.54
hypoxia inducible lipid droplet-associated	Hilpda	100750353	23.63	21.94	17.58	19.04	17.21	18.31	588.64	549.02	440.94	469.36	422.27	453.31
histone H4 transcription factor	Hinfp	100756963	23.50	23.55	22.87	24.66	21.78	23.18	1840.36	1863.92	1824.63	1966.69	1716.01	1822.61
histidine triad nucleotide binding protein 1	Hint1	100764340	98.03	96.78	101.69	96.09	95.23	92.87	1182.60	1159.35	1227.18	1179.78	1166.43	1146.84
histidine triad nucleotide binding protein 2	Hint2	100754892	17.01	15.65	16.42	15.79	14.19	13.74	235.46	217.78	227.30	199.33	180.09	181.33
histidine triad nucleotide binding protein 3	Hint3	100774127	5.75	6.43	2.32	3.46	3.67	3.28	502.81	506.93	219.85	280.46	300.15	284.14
huntingtin interacting protein 1	Hip1	100757209	28.38	27.41	33.66	36.02	49.57	51.48	6652.80	6492.16	7979.17	8403.33	11476.96	11976.86
huntingtin interacting protein 1 related	Hip1r	100766930	9.44	8.97	10.45	8.40	6.05	7.02	1343.62	1292.94	1485.54	1198.32	890.09	1003.84
homeodomain interacting protein kinase 1	Hipk1	100759237	9.17	10.08	10.03	10.04	11.11	10.93	1222.10	1315.82	1352.63	1320.01	1430.35	1436.59
homeodomain interacting protein kinase 2	Hipk2	100767468	5.58	5.35	5.38	5.29	5.64	5.81	2323.43	2226.28	2251.90	2197.31	2338.03	2414.25
homeodomain interacting protein kinase 3	Hipk3	100772418	18.38	18.12	19.86	22.58	22.81	21.69	3765.04	3738.83	4098.89	4642.63	4649.16	4469.59

homeodomain interacting protein kinase 4	Hipk4	100763406	0.02	0.00	0.00	0.00	0.00	0.00	3.04	0.00	1.24	0.00	0.00	2.80
HIRA interacting protein 3	Hirip3	100773932	83.04	82.81	76.89	78.96	81.24	82.95	5495.27	5438.04	5087.59	5196.60	5317.76	5598.67
human immunodeficiency virus type I enhancer binding protein 1	Hivep1	100768788	7.10	7.11	5.24	6.28	6.14	5.71	1825.93	1837.39	1366.30	1609.74	1562.83	1475.84
human immunodeficiency virus type I enhancer binding protein 2	Hivep2	100760180	7.23	7.45	6.43	7.22	7.30	7.22	2012.02	2078.04	1808.48	2025.79	2019.26	2018.89
human immunodeficiency virus type I enhancer binding protein 3	Hivep3	100755083	2.75	2.42	1.39	1.43	1.26	1.17	919.80	814.38	471.99	484.43	421.24	401.91
Holliday junction recognition protein	Hjurp	100755715	13.98	14.31	13.13	15.53	15.98	15.93	1420.34	1474.12	1325.31	1515.87	1574.21	1616.98
hexokinase 1	Hk1	100765413	51.60	52.73	46.91	45.16	41.87	43.71	5549.19	5719.87	5177.02	4896.44	4615.00	4739.71
hexokinase 2	Hk2	100772205	16.11	15.98	12.44	12.25	12.61	12.70	2444.20	2393.73	1871.82	1858.91	1901.27	1951.59
hexokinase 3 (white cell)	Hk3	100765901	0.03	0.01	0.00	0.03	0.03	0.04	2.28	1.83	0.00	2.32	2.07	2.80
hexokinase domain containing 1	Hkdc1	100765703	0.08	0.04	0.02	0.11	0.01	0.01	6.08	2.75	1.24	8.11	1.03	0.93
holocarboxylase synthetase (biotin-(proprionyl-CoA-carboxylase (ATP-hydrolysing)) ligase)	Hlcs	100752840	5.32	5.50	5.16	4.55	3.85	4.31	394.20	409.94	362.69	340.72	293.94	341.15
hepatic leukemia factor	Hlf	100759113	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
helicase-like transcription factor	Hltf	100751958	20.10	18.90	25.27	31.34	28.33	25.43	2096.33	2035.03	2745.01	3324.94	3007.67	2678.76
H2.0-like homeobox	Hlx	100756486	3.27	2.79	2.30	1.89	1.58	1.39	142.03	122.61	104.34	85.76	68.31	65.43
histocompatibility (minor) 13	Hm13	100757312	70.17	69.61	69.61	68.87	60.57	62.09	3113.35	3119.35	3082.86	2965.68	2694.07	2668.48
homeobox containing 1	Hmbox1	103160896	9.76	10.47	12.27	12.87	10.64	12.49	793.72	825.36	983.73	1046.50	920.10	986.08
hydroxymethylbilane synthase	Hmbs	100757819	29.00	27.90	33.52	35.41	35.93	37.51	1326.16	1313.99	1533.98	1629.44	1671.50	1709.51
5-hydroxymethylcytosine (hmC) binding, ES cell-specific	Hmces	100763397	22.63	20.64	23.38	22.59	20.40	21.06	938.03	880.26	1016.03	953.79	860.07	881.39
hemicentin 1	Hmcn1	100756726	0.01	0.01	0.00	0.00	0.00	0.00	3.04	1.83	0.00	0.00	0.00	0.93
hemicentin 2	Hmcn2	100758433	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
high mobility group 20A	Hmg20a	100759297	17.16	17.00	17.10	17.75	17.00	18.36	1732.51	1725.75	1733.95	1803.28	1705.66	1839.43
high mobility group 20B	Hmg20b	100771597	27.00	25.38	32.88	24.95	18.04	19.38	1362.61	1294.77	1635.83	1289.88	980.13	1016.92
high mobility group AT-hook 1	Hmga1	100689040	402.22	390.07	373.34	270.74	198.21	197.13	17950.19	17483.55	17392.94	12537.20	9282.79	9258.84
high mobility group AT-hook 2	Hmga2	103158819	100.19	88.73	114.22	126.42	132.90	132.34	536.23	497.78	575.09	564.39	607.54	625.29
high mobility group box 1	Hmgb1	100754755	386.18	414.44	375.09	390.96	410.49	384.65	7673.62	8203.28	7455.01	7514.44	8030.46	7567.09
high mobility group box 2	Hmgb2	100762338	127.34	131.24	143.76	147.31	143.50	134.53	3131.58	3278.57	3549.88	3626.26	3565.53	3321.82
high mobility group box 3	Hmgb3	100772377	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.93
high mobility group box 4	Hmgb4	100773406	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-hydroxymethyl-3-methylglutaryl-CoA lyase	Hmgcl	100755385	18.87	18.61	19.06	17.66	16.36	19.00	528.64	517.91	515.47	440.39	404.68	472.94
3-hydroxymethyl-3-methylglutaryl-CoA lyase-like 1	Hmgcll1	100763147	0.03	0.00	0.00	0.00	0.00	0.02	1.52	0.00	0.00	0.00	1.03	0.93
3-hydroxy-3-methylglutaryl-CoA reductase	Hmgcr	100756363	12.22	11.81	12.87	13.14	12.80	13.13	1591.99	1550.07	1679.30	1715.20	1654.94	1698.29
3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)	Hmgcs1	100762235	10.98	10.15	14.08	15.57	14.09	14.80	1059.56	978.17	1363.81	1483.42	1338.24	1416.02
3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial)	Hmgcs2	100774684	3.75	3.80	0.73	0.90	0.56	0.33	208.11	226.93	40.99	50.99	30.01	18.69
high mobility group nucleosome binding domain 1	Hmgn1	100754560	123.60	141.29	141.42	128.22	140.51	105.44	1041.33	1238.96	1098.00	995.51	1117.79	870.18

high mobility group nucleosomal binding domain 3	Hmgn3	100758486	58.64	63.64	42.19	44.45	52.07	45.37	1643.64	1766.01	1207.31	1301.47	1485.21	1322.56
high mobility group nucleosome binding domain 5	Hmgn5	100774904	140.44	138.00	128.06	143.37	130.26	121.15	6142.39	5979.74	5557.10	6209.49	5566.16	5208.91
HMG box domain containing 3	Hmgxb3	100764075	9.72	9.91	10.68	10.92	10.42	11.39	1350.46	1371.64	1491.75	1497.32	1442.77	1576.79
HMG box domain containing 4	Hmgxb4	100757455	13.05	12.51	12.94	14.55	15.65	16.48	1339.83	1331.37	1343.94	1497.32	1585.60	1675.86
histocompatibility (minor) HA-1	Hmha1	100764760	0.15	0.14	0.16	0.10	0.12	0.14	20.51	16.47	19.87	12.75	12.42	14.95
hyaluronan-mediated motility receptor (RHAMM)	Hmmr	100772538	12.08	12.25	10.35	14.02	15.24	13.60	1224.38	1224.31	1075.65	1408.09	1535.92	1358.08
heme oxygenase (decycling) 1	Hmox1	100756872	71.31	71.19	84.77	76.33	72.58	82.11	3440.71	3465.23	4116.28	3655.23	3480.66	3925.61
heme oxygenase (decycling) 2	Hmox2	100773727	32.03	32.03	38.99	38.31	41.20	43.86	1186.40	1189.54	1453.24	1464.87	1536.95	1621.65
H6 family homeobox 2	Hmx2	100768285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H6 family homeobox 3	Hmx3	100767995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hematological and neurological expressed 1	Hn1	100756788	107.27	105.20	120.88	104.98	76.38	84.20	3236.40	3186.15	3675.33	3127.92	2297.67	2530.15
hematological and neurological expressed 1-like	Hn1l	100765136	119.34	125.01	136.13	136.38	142.79	146.78	9200.30	9710.34	10624.81	10516.04	10911.86	11324.46
HNF1 homeobox A	Hnf1a	100774677	3.15	3.14	3.76	3.53	3.58	3.37	306.85	295.56	339.09	314.07	309.46	299.09
HNF1 homeobox B	Hnf1b	100771619	0.00	0.00	0.00	0.00	0.00	0.02	1.52	0.00	0.00	0.00	0.00	1.87
hepatocyte nuclear factor 4, alpha	Hnf4a	100770083	0.85	0.69	0.16	0.17	0.06	0.04	113.17	94.25	21.12	22.02	8.28	4.67
hepatocyte nuclear factor 4, gamma	Hnf4g	100751997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histamine N-methyltransferase	Hnmt	100761300	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A1	Hnrnpa1	100769923	493.77	504.99	456.17	493.57	498.18	470.50	25512.92	26216.63	23217.09	24929.53	25525.87	24089.24
heterogeneous nuclear ribonucleoprotein A2/B1	Hnrnpa2 b1	100759302	372.61	384.55	333.42	346.15	395.37	364.29	18752.26	19366.68	16718.49	17273.70	19713.38	18136.33
heterogeneous nuclear ribonucleoprotein A3	Hnrnpa3	100757096	607.64	600.84	571.53	629.73	602.62	569.49	23546.48	23897.02	22863.09	24681.52	23678.42	21952.59
heterogeneous nuclear ribonucleoprotein A/B	Hnrnpab	100767538	335.56	368.39	393.47	401.30	408.74	432.45	6704.45	7285.50	7779.19	7283.81	7055.50	7349.31
heterogeneous nuclear ribonucleoprotein C (C1/C2)	Hnrnpc	100751290	239.48	247.81	268.46	269.57	269.56	263.62	12176.93	12655.83	13607.06	13552.41	13564.53	13243.33
heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	Hnrnpd	100767887	328.45	356.60	351.32	364.53	388.65	374.33	11561.71	12951.38	12425.84	12552.26	13416.53	12547.01
heterogeneous nuclear ribonucleoprotein D-like	Hnrnpdl	100767030	79.88	82.57	79.36	84.92	80.05	75.44	5637.30	5944.06	5708.63	6232.67	5848.71	5446.32
heterogeneous nuclear ribonucleoprotein F	Hnrnpf	100771400	384.60	375.66	377.40	374.24	358.88	368.32	23315.58	22836.49	23118.96	22743.80	21747.13	22447.03
heterogeneous nuclear ribonucleoprotein H1 (H)	Hnrnph1	100769493	127.83	125.14	90.19	96.78	99.20	93.70	7814.90	7653.34	5518.59	5975.39	6110.56	5800.56
heterogeneous nuclear ribonucleoprotein H2 (H')	Hnrnph2	100773216	58.22	58.12	57.05	61.22	67.25	63.42	3933.65	3872.42	3803.27	4064.33	4399.73	4253.68
heterogeneous nuclear ribonucleoprotein H3 (2H9)	Hnrnph3	100756529	25.66	24.20	20.76	23.32	22.60	22.59	2318.87	2253.73	1946.35	2184.56	2153.81	2106.75
heterogeneous nuclear ribonucleoprotein K	Hnrnpk	100762670	292.21	298.44	292.52	291.75	296.15	294.80	19391.04	19999.89	19791.41	19413.07	19993.87	19874.82
heterogeneous nuclear ribonucleoprotein L	Hnrnpl	100768344	180.68	170.61	163.82	161.66	174.44	189.57	8439.24	8256.35	8041.27	7862.11	8359.58	8884.04
heterogeneous nuclear ribonucleoprotein L-like	Hnrnpll	100758670	68.35	66.02	63.23	67.40	74.44	73.23	4390.90	4214.64	4080.26	4270.62	4704.01	4630.35

heterogeneous nuclear ribonucleoprotein M	Hnrnpm	100753958	70.97	64.32	50.70	48.88	48.08	46.82	4184.30	3992.29	3112.67	3097.79	3032.51	2846.07
heterogeneous nuclear ribonucleoprotein R	Hnrnpr	100767855	72.71	75.66	82.34	85.60	88.74	83.91	5451.21	5712.55	6286.20	6425.05	6592.86	6269.76
heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	Hnrnpu	100767942	343.25	356.79	330.92	350.30	345.69	341.24	26066.63	27441.86	25488.86	26580.99	26208.96	25658.55
heterogeneous nuclear ribonucleoprotein U-like 1	Hnrnpul 1	100772778	60.95	64.07	58.90	58.17	52.69	53.06	2750.29	2938.17	2704.02	2634.22	2390.82	2428.27
heterogeneous nuclear ribonucleoprotein U-like 2	Hnrnpul 2	100756306	72.96	74.04	75.41	84.22	80.70	75.30	4525.33	4609.94	4706.27	5136.33	4962.76	4621.01
4-hydroxy-2-oxoglutarate aldolase 1	Hoga1	100759109	6.19	6.91	6.60	6.87	5.83	6.20	754.98	852.81	814.81	825.15	692.41	740.26
homer homolog 1 (Drosophila)	Homer1	100760219	8.79	9.36	8.90	9.10	8.86	8.68	1004.87	1079.74	1022.24	1038.39	1016.36	998.23
homer homolog 2 (Drosophila)	Homer2	100771332	0.00	0.05	0.00	0.00	0.11	0.00	0.00	0.92	0.00	0.00	2.07	0.00
homer homolog 3 (Drosophila)	Homer3	100764933	5.01	4.90	5.81	4.19	3.60	3.85	288.62	284.58	305.55	239.90	216.31	202.82
homeobox and leucine zipper encoding	Homez	100766522	2.00	1.91	1.87	2.14	2.25	2.17	169.38	161.96	158.99	181.95	188.37	185.06
hook microtubule-tethering protein 1	Hook1	100766023	0.95	1.02	0.15	0.14	0.24	0.21	151.91	160.13	23.60	19.70	38.29	32.71
hook microtubule-tethering protein 2	Hook2	100762520	6.46	6.15	6.72	4.91	4.19	4.63	672.19	660.65	737.80	515.72	469.88	478.55
hook microtubule-tethering protein 3	Hook3	100770791	6.70	6.89	7.41	8.10	9.56	8.99	1093.74	1116.34	1189.92	1288.72	1512.11	1419.76
HOP homeobox	Hopx	100757669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HORMA domain containing 1	Hormad 1	100765118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HORMA domain containing 2	Hormad 2	100753726	0.00	0.00	0.00	0.00	0.00	0.03	0.76	0.00	0.00	0.00	0.00	0.93
homeobox A1	Hoxa1	100759424	1.35	1.53	1.20	1.69	1.69	1.64	75.19	86.01	72.04	98.51	100.39	89.73
homeobox A10	Hoxa10	100762719	4.83	5.75	5.59	4.28	6.98	6.23	255.21	299.22	295.62	225.99	358.11	317.79
homeobox A11	Hoxa11	100763010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.03	1.87
homeobox A2	Hoxa2	100761561	0.50	0.67	0.87	0.74	0.99	0.97	31.90	41.18	55.89	45.20	63.13	63.56
homeobox A3	Hoxa3	100761845	0.60	0.64	0.70	0.65	0.57	0.44	49.37	53.99	60.86	55.63	45.54	36.45
homeobox A4	Hoxa4	100762131	1.19	0.94	1.00	1.07	0.88	1.26	31.14	24.71	26.08	27.81	22.77	32.71
homeobox A5	Hoxa5	100762428	2.58	2.17	2.30	2.43	4.23	3.13	78.99	70.46	88.19	76.49	132.48	100.94
homeobox A6	Hoxa6	100764757	2.15	2.25	2.94	2.84	2.40	2.38	177.73	185.75	208.67	203.97	189.40	178.52
homeobox A7	Hoxa7	100759709	4.22	4.30	5.47	4.55	5.17	5.25	541.55	553.60	704.26	582.94	639.62	671.09
homeobox A9	Hoxa9	100759995	5.20	5.14	5.82	5.71	8.17	7.50	296.22	295.56	334.12	329.13	451.25	425.27
homeobox B1	Hoxb1	100751249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox B13	Hoxb13	100773981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox B2	Hoxb2	100750955	1.53	1.24	0.78	0.53	0.47	0.29	69.12	63.14	57.14	39.40	42.43	31.78
homeobox B3	Hoxb3	100750662	0.91	0.63	0.73	0.49	0.42	0.20	54.69	39.35	44.72	30.13	23.80	13.09
homeobox B4	Hoxb4	100750374	3.40	3.64	2.61	1.74	1.49	1.13	66.84	72.29	52.17	33.61	28.98	24.30
homeobox B5	Hoxb5	100774854	0.57	0.52	0.44	0.47	0.52	0.42	61.52	55.82	48.44	49.83	56.92	47.67
homeobox B6	Hoxb6	100774559	4.88	4.53	4.69	4.41	4.04	4.15	419.27	407.19	383.80	382.44	377.77	372.93
homeobox B7	Hoxb7	100774273	21.78	22.35	16.30	16.21	16.84	16.52	729.16	744.84	551.49	540.06	553.72	549.59
homeobox B8	Hoxb8	100761150	0.98	1.08	1.20	1.19	0.86	1.27	63.80	68.63	81.98	70.69	52.78	76.64

homeobox C10	Hoxc10	100764281	12.69	12.35	18.38	16.17	15.72	15.97	600.80	585.62	873.19	768.36	732.77	748.67
homeobox C11	Hoxc11	100771213	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
homeobox C12	Hoxc12	100771504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox C13	Hoxc13	103159695	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox C4	Hoxc4	103158598	18.19	19.03	23.05	21.81	20.38	20.26	614.47	630.46	768.85	734.76	683.09	687.92
homeobox C5	Hoxc5	100763415	0.85	0.94	1.06	0.96	0.77	0.77	85.83	95.16	110.55	98.51	77.62	75.71
homeobox C6	Hoxc6	100763696	6.87	5.81	11.11	11.14	7.06	8.23	229.38	193.99	356.48	363.90	231.84	280.40
homeobox C8	Hoxc8	100770928	5.09	5.68	10.13	9.83	6.86	6.98	275.71	299.22	545.28	515.72	367.42	372.00
homeobox C9	Hoxc9	100763984	3.78	3.68	5.96	4.79	4.81	4.12	214.19	204.97	344.06	267.71	267.03	230.86
homeobox D1	Hoxd1	100757676	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox D10	Hoxd10	100752695	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
homeobox D12	Hoxd12	100752995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox D13	Hoxd13	100753293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox D3	Hoxd3	100757961	0.85	0.69	1.39	0.98	0.74	0.82	35.70	28.37	40.99	38.24	18.63	28.97
homeobox D4	Hoxd4	103161712	1.25	0.75	0.80	1.30	1.46	1.31	37.22	24.71	29.81	47.52	47.61	46.73
homeobox D8	Hoxd8	100758537	35.49	38.04	40.79	41.81	46.92	47.83	1576.04	1698.30	1834.56	1847.32	2077.22	2114.22
homeobox D9	Hoxd9	100758825	16.13	17.90	20.18	16.94	17.83	16.74	439.01	478.56	547.76	438.07	456.43	432.75
haptoglobin	Hp	100756921	0.03	0.02	0.05	0.00	0.06	0.02	2.28	0.92	6.21	1.16	5.17	4.67
heterochromatin protein 1, binding protein 3	Hp1bp3	100765369	86.25	88.92	104.35	106.95	113.77	117.67	8120.99	8485.11	9982.65	10120.85	10749.37	11056.21
hippocalcin	Hpca	100750673	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
hippocalcin-like 1	Hpcal1	100752247	9.41	9.63	11.55	9.44	6.69	8.56	379.01	382.48	453.36	372.01	262.89	334.61
hippocalcin like 4	Hpcal4	100772357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-hydroxyphenylpyruvate dioxygenase	Hpd	100768220	0.03	0.04	0.01	0.00	0.00	0.00	1.52	1.83	1.24	0.00	0.00	0.93
4-hydroxyphenylpyruvate dioxygenase-like	Hpdl	100752686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hydroxyprostaglandin dehydrogenase 15-(NAD)	Hpgd	100755116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hematopoietic prostaglandin D synthase	Hpgds	100768035	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
hepsin	Hpn	100757163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hypoxanthine phosphoribosyltransferase 1	Hprt1	100769768	38.94	42.43	41.28	42.14	48.15	49.27	1277.54	1398.17	1366.30	1337.39	1545.23	1561.83
Hermansky-Pudlak syndrome 1	Hps1	100761713	8.47	7.68	8.73	7.71	5.71	6.14	811.95	760.39	858.28	774.16	584.77	614.08
Hermansky-Pudlak syndrome 3	Hps3	100752245	3.48	3.44	4.99	5.82	6.08	5.36	392.68	384.31	563.91	659.43	665.50	594.45
Hermansky-Pudlak syndrome 4	Hps4	100774207	8.62	7.53	10.33	9.15	7.69	8.09	862.08	794.25	1075.65	939.88	791.76	835.59
Hermansky-Pudlak syndrome 5	Hps5	100750896	11.59	11.44	13.69	14.61	16.57	15.90	1497.05	1496.08	1767.49	1884.40	2121.72	2025.43
Hermansky-Pudlak syndrome 6	Hps6	100773245	5.61	6.00	6.74	5.17	3.02	3.64	398.76	428.24	480.69	368.54	212.17	260.77
heparanase	Hpse	100755610	14.77	15.13	12.46	14.15	20.08	21.15	761.82	772.29	648.37	719.69	1057.76	1112.26
heparanase 2	Hpse2	100762007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
hemopexin	Hpx	100753194	0.18	0.02	0.09	0.14	0.07	0.17	12.15	0.92	3.73	6.95	3.10	8.41
hair growth associated	Hr	100765886	0.95	1.04	0.14	0.19	0.14	0.16	143.55	158.30	22.36	31.29	22.77	22.43

Harvey rat sarcoma viral oncogene homolog	Hras	100773737	37.30	37.24	40.00	34.74	28.95	33.60	1193.24	1217.91	1326.55	1112.56	919.07	1065.52
HRAS-like suppressor	Hrasls	100750510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HRAS-like suppressor family, member 5	Hrasls5	100773487	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histidine rich calcium binding protein	Hrc	100771220	0.05	0.06	0.06	0.06	0.09	0.09	4.56	3.66	4.97	4.64	6.21	6.54
histidine rich carboxyl terminus 1	Hrct1	100758508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histidine-rich glycoprotein	Hrg	100764582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histamine receptor H1	Hrh1	100760663	0.06	0.00	0.00	0.02	0.00	0.00	3.80	0.00	0.00	1.16	0.00	0.00
histamine receptor H2	Hrh2	100760378	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histamine receptor H3	Hrh3	100764853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histamine receptor H4	Hrh4	100774770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat-responsive protein 12	Hrsp12	100754697	19.30	17.79	22.29	22.23	23.10	22.67	437.49	405.36	481.93	484.43	492.65	500.98
HCLS1 binding protein 3	Hs1bp3	100774467	8.73	8.45	9.71	8.55	8.28	9.91	782.33	748.50	854.56	762.57	733.81	872.98
heparan sulfate 2-O-sulfotransferase 1	Hs2st1	100760748	37.72	41.76	30.25	40.39	40.40	37.01	1788.71	1891.37	1706.63	1856.59	2019.26	1946.92
heparan sulfate (glucosamine) 3-O-sulfotransferase 1	Hs3st1	100759378	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heparan sulfate (glucosamine) 3-O-sulfotransferase 2	Hs3st2	100765580	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heparan sulfate (glucosamine) 3-O-sulfotransferase 4	Hs3st4	100770573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heparan sulfate (glucosamine) 3-O-sulfotransferase 5	Hs3st5	100763965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
heparan sulfate (glucosamine) 3-O-sulfotransferase 6	Hs3st6	100766299	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heparan sulfate 6-O-sulfotransferase 1	Hs6st1	100689173	22.80	22.09	19.10	16.59	15.63	16.40	2005.94	1948.11	1691.72	1461.40	1366.18	1448.74
heparan sulfate 6-O-sulfotransferase 2	Hs6st2	100763313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heparan sulfate 6-O-sulfotransferase 3	Hs6st3	100765877	0.09	0.34	0.00	0.00	0.00	0.00	5.32	6.41	0.00	0.00	0.00	0.00
heat shock factor binding protein 1	Hsbp1	100751023	115.67	115.79	126.65	123.07	140.72	142.98	3742.25	3740.66	4136.15	3925.26	4443.20	4509.78
heat shock factor binding protein 1-like 1	Hsbp1l1	100763672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HscB mitochondrial iron-sulfur cluster co-chaperone	Hscb	100769569	33.60	33.02	28.27	26.89	27.28	28.57	647.13	635.03	571.36	523.83	538.19	544.91
hydroxysteroid (11-beta) dehydrogenase 1	Hsd11b 1	100762502	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.93
hydroxysteroid (11-beta) dehydrogenase 2	Hsd11b 2	100766725	0.00	0.04	0.00	0.00	0.00	0.04	0.00	1.83	1.24	0.00	0.00	0.93
hydroxysteroid (17-beta) dehydrogenase 1	Hsd17b 1	100750866	0.68	0.49	0.71	0.55	0.16	0.35	36.46	28.37	24.84	24.34	12.42	18.69
hydroxysteroid (17-beta) dehydrogenase 10	Hsd17b 10	100757689	255.14	249.26	226.01	209.47	188.34	194.05	6223.66	6085.89	5483.81	4954.38	4479.42	4642.50
hydroxysteroid (17-beta) dehydrogenase 11	Hsd17b 11	100767058	8.43	7.95	7.73	7.99	10.33	9.31	327.36	315.69	299.34	307.11	395.36	362.65
hydroxysteroid (17-beta) dehydrogenase 12	Hsd17b 12	100751291	37.69	39.00	42.07	45.50	53.02	50.54	2125.19	2177.78	2346.30	2489.36	2899.00	2777.84
hydroxysteroid (17-beta) dehydrogenase 14	Hsd17b 14	100752644	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

hydroxysteroid (17-beta) dehydrogenase 2	Hsd17b2	100751897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hydroxysteroid (17-beta) dehydrogenase 3	Hsd17b3	100767644	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hydroxysteroid (17-beta) dehydrogenase 4	Hsd17b4	103161104	13.53	14.37	16.25	17.24	19.50	18.98	1040.57	1130.98	1271.90	1329.28	1490.38	1445.93
hydroxysteroid (17-beta) dehydrogenase 6	Hsd17b6	100762147	0.03	0.00	0.00	0.00	0.00	0.08	1.52	0.00	0.00	1.16	0.00	1.87
hydroxysteroid (17-beta) dehydrogenase 7	Hsd17b7	100767580	3.44	3.28	4.00	4.74	5.52	5.64	347.87	333.07	409.89	478.63	554.75	572.95
hydroxysteroid (17-beta) dehydrogenase 8	Hsd17b8	100766230	28.44	26.45	36.80	31.06	26.51	28.39	1087.66	1066.01	1335.24	1176.30	994.62	1035.61
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	Hsd3b7	100754260	10.50	11.60	9.89	8.31	7.63	7.84	548.39	608.50	530.37	438.07	393.29	412.19
hydroxysteroid dehydrogenase like 1	Hsdl1	100774919	10.32	9.82	11.86	11.40	12.58	14.03	934.23	947.06	1131.54	1083.59	1249.23	1397.33
hydroxysteroid dehydrogenase like 2	Hsdl2	100769693	28.90	29.71	21.59	21.93	23.25	23.40	1487.94	1568.37	1150.17	1186.73	1282.35	1268.35
heat shock transcription factor 1	Hsf1	100762942	55.21	50.97	52.26	42.96	31.73	34.36	3496.92	3263.92	3333.76	2709.55	1984.07	2144.13
heat shock transcription factor 2	Hsf2	100752741	18.93	17.75	9.26	10.29	10.36	10.41	1424.90	1385.36	700.54	760.25	762.78	790.73
heat shock transcription factor 2 binding protein	Hsf2bp	100751781	5.07	4.62	4.93	4.66	4.65	3.96	322.80	324.84	317.97	267.71	312.57	271.99
heat shock transcription factor 4	Hsf4	100758969	0.48	0.41	0.31	0.35	0.20	0.37	28.86	37.52	23.60	20.86	16.56	21.50
heat shock transcription factor family member 5	Hsf5	100758083	0.05	0.04	0.00	0.05	0.04	0.00	3.04	1.83	0.00	2.32	3.10	0.93
hematopoietic SH2 domain containing	Hsh2d	100760566	0.25	0.23	0.25	0.06	0.16	0.25	17.47	21.05	22.36	8.11	13.45	17.76
heat shock protein 90kDa alpha (cytosolic), class A member 1	Hsp90aa1	100689397	206.33	203.67	194.69	227.58	204.86	186.83	15751.32	15669.95	15139.80	17497.37	15595.17	14308.86
heat shock protein 90kDa alpha (cytosolic), class B member 1	Hsp90ab1	100754509	1173.80	1190.86	1214.87	1228.64	1177.49	1279.05	80250.64	82170.93	84219.70	84532.78	80558.16	86815.86
heat shock protein 90kDa beta (Grp94), member 1	Hsp90b1	100773331	618.74	624.20	701.08	774.19	793.00	774.65	51690.44	53224.76	59852.44	64976.00	66724.53	63950.10
heat shock 70kDa protein 12A	Hspa12a	100758140	0.64	0.65	0.63	0.84	0.62	0.60	76.71	79.61	95.64	122.85	93.15	84.12
heat shock 70kD protein 12B	Hspa12b	100766967	0.13	0.10	0.28	0.18	0.08	0.19	17.47	13.73	26.08	18.54	8.28	15.89
heat shock protein 70kDa family, member 13	Hspa13	100766580	19.29	20.28	21.26	23.50	26.91	26.42	2025.69	2114.64	2255.63	2497.47	2822.41	2790.92
heat shock 70kDa protein 14	Hspa14	100751911	19.68	20.44	17.09	19.21	19.99	17.67	1012.47	1032.16	929.08	1005.94	1009.11	918.78
heat shock 70kDa protein 1A	Hspa1a	100760510	0.03	0.05	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
heat shock 70kDa protein 1-like	Hspa1l	100760804	0.45	0.38	0.32	0.33	0.54	0.56	41.77	32.03	29.81	30.13	49.68	52.34
heat shock 70kDa protein 2	Hspa2	100764750	7.21	8.09	7.13	5.50	4.96	5.42	516.49	581.05	516.71	395.19	356.04	391.63
heat shock 70kDa protein 4	Hspa4	100764628	55.13	57.71	59.12	63.67	58.89	58.20	7003.71	7303.80	7545.68	7982.64	7385.66	7264.25
heat shock 70kDa protein 4-like	Hspa4l	100774014	0.03	0.02	0.00	0.00	0.01	0.00	3.04	2.75	0.00	0.00	2.07	0.00
heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)	Hspa5	100689305	687.89	721.10	896.48	881.00	813.29	820.99	47211.44	49679.92	62007.46	60346.12	55741.26	56070.83
heat shock 70kDa protein 8	Hspa8	100689472	304.08	302.98	362.78	373.63	325.37	338.25	13846.40	13909.42	16713.52	17033.80	14778.57	15448.22
heat shock 70kDa protein 9 (mortalin)	Hspa9	100689405	314.14	315.85	351.78	362.89	353.12	358.77	23867.76	24069.96	26745.86	27227.66	26402.50	27024.10
heat shock 27kDa protein 1	Hspb1	100763481	75.54	77.01	72.21	45.84	32.32	29.04	678.27	667.06	618.56	397.51	280.48	252.36
heat shock protein family B (small), member 11	Hspb11	100764905	31.83	30.05	29.84	30.93	31.10	32.31	450.41	447.45	385.05	391.71	399.50	402.84

heat shock 27kDa protein 2	Hspb2	100772331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
heat shock 27kDa protein 3	Hspb3	100774495	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
heat shock protein, alpha-crystallin-related, B6	Hspb6	100774774	5.19	4.03	3.76	2.37	1.51	1.76	75.95	75.03	78.25	81.12	65.20	53.28
heat shock 27kDa protein family, member 7 (cardiovascular)	Hspb7	100751681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
heat shock 22kDa protein 8	Hspb8	100754642	94.81	96.91	111.69	108.47	96.73	104.15	5009.16	5099.48	5932.21	5690.30	5053.84	5493.05
heat shock protein, alpha-crystallin-related, B9	Hspb9	100774771	1.24	1.22	0.89	0.79	0.71	0.81	196.72	224.18	134.15	143.71	139.72	158.89
HSPB (heat shock 27kDa) associated protein 1	Hspbap 1	100767418	6.12	5.65	6.39	6.01	7.02	7.11	297.74	258.95	301.83	285.09	315.67	334.61
heat shock 60kDa protein 1 (chaperonin)	Hspd1	100689473	654.15	676.52	800.24	822.03	836.16	855.20	41064.49	42639.65	50252.35	50701.59	51440.89	52560.22
heparan sulfate proteoglycan 2	Hspg2	100689041	17.06	17.36	16.47	11.57	8.30	8.53	7395.63	7612.16	7252.55	5129.38	3728.02	3812.52
heat shock 105kDa/110kDa protein 1	Hsph1	100689462	60.10	61.22	71.76	72.77	75.92	74.18	5588.69	5738.18	6699.82	6740.28	7002.72	6821.22
HIV-1 Tat interactive protein 2, 30kDa	Htatip2	100759325	41.08	41.05	46.89	44.83	45.90	44.03	1130.19	1178.56	1324.06	1277.13	1255.44	1248.72
HIV-1 Tat specific factor 1	Htatsf1	100767363	51.97	51.20	47.13	51.77	53.75	51.63	3642.75	3683.01	3374.75	3688.84	3870.85	3631.19
5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled	Htr1a	100753851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 1B, G protein-coupled	Htr1b	100689321	2.45	2.34	2.08	2.36	3.55	2.82	334.96	320.26	291.89	324.50	483.34	386.02
5-hydroxytryptamine (serotonin) receptor 1D, G protein-coupled	Htr1d	100767570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 1F, G protein-coupled	Htr1f	100766950	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled	Htr2a	100689471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 2B, G protein-coupled	Htr2b	103161688	0.00	0.02	0.00	0.00	0.00	0.00	2.28	0.92	1.24	0.00	2.07	0.93
5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled	Htr2c	100754331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 3A, ionotropic	Htr3a	100763929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 3B, ionotropic	Htr3b	100764440	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 4, G protein-coupled	Htr4	100763863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 5A, G protein-coupled	Htr5a	100772532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine (serotonin) receptor 6, G protein-coupled	Htr6	100752934	0.11	0.09	0.17	0.07	0.08	0.13	9.87	8.24	14.91	5.79	7.24	12.15
5-hydroxytryptamine (serotonin) receptor 7, adenylate cyclase-coupled	Htr7	100764536	0.79	0.57	0.69	0.74	1.03	1.08	60.00	42.09	50.93	56.79	76.59	83.19
HtrA serine peptidase 1	Htra1	100762962	98.15	93.35	100.92	97.61	112.43	110.49	4935.49	4764.58	5065.23	4874.42	5597.21	5515.49
HtrA serine peptidase 2	Htra2	100760629	27.80	26.30	37.41	32.69	31.88	34.08	1492.49	1421.96	2048.20	1747.65	1787.42	1855.32
HtrA serine peptidase 3	Htra3	100774250	0.07	0.00	0.00	0.00	0.00	0.00	6.08	0.00	0.00	2.32	0.00	0.00
HtrA serine peptidase 4	Htra4	100754379	0.04	0.00	0.00	0.00	0.00	0.03	1.52	0.00	0.00	0.00	4.14	1.87
huntingtin	Htt	100764729	9.43	8.99	8.69	9.94	10.59	10.36	3777.95	3640.92	3518.83	3947.28	4222.74	4127.50
hormonally up-regulated Neu-associated kinase	Hunk	100765960	3.70	3.69	4.66	4.36	4.18	3.80	311.41	301.05	383.80	366.22	345.69	326.20
HUS1 checkpoint homolog (S. pombe)	Hus1	100754140	16.10	16.71	15.80	16.66	17.25	17.14	1622.38	1725.75	1648.25	1722.15	1750.16	1783.35

HUS1 checkpoint homolog b (S. pombe)	Hus1b	100756111	0.03	0.00	0.00	0.00	0.06	0.06	1.52	1.83	0.00	1.16	1.03	1.87
HECT, UBA and WWE domain containing 1, E3 ubiquitin protein ligase	Huwe1	100757403	46.15	45.16	41.82	46.43	43.44	43.58	19427.49	19046.42	17761.84	19444.36	18166.08	18292.42
hydrogen voltage-gated channel 1	Hvcn1	100774842	2.40	1.92	3.07	3.31	3.16	2.69	172.42	176.60	216.12	225.99	193.54	205.63
hyaluronoglucosaminidase 1	Hyal1	100752718	0.88	0.75	1.24	1.26	1.21	1.17	77.47	61.31	105.58	113.57	101.43	100.94
hyaluronoglucosaminidase 2	Hyal2	100752414	22.25	23.00	23.53	17.41	11.14	12.95	1239.57	1271.90	1320.34	967.70	625.13	718.76
hyaluronoglucosaminidase 3	Hyal3	100753318	1.66	2.26	2.49	2.35	2.53	2.54	108.61	143.66	135.39	139.07	142.83	151.42
hyaluronoglucosaminidase 4	Hyal4	100758272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HYDIN, axonemal central pair apparatus protein	Hydin	100758841	0.01	0.01	0.00	0.02	0.01	0.01	2.28	2.75	2.48	6.95	6.21	5.61
hydroxypyruvate isomerase (putative)	Hyi	100774763	73.42	71.35	84.36	71.78	61.64	67.71	1143.11	1122.75	1310.40	1089.38	968.75	1032.81
hydroxylysine kinase	Hykk	100756410	4.47	4.89	3.52	3.81	4.96	4.76	293.18	323.92	224.82	253.80	319.81	318.72
hydrolethalus syndrome 1	Hyls1	100759998	17.11	17.68	18.32	17.57	18.32	19.42	647.13	676.21	694.33	661.74	681.02	731.85
hypoxia up-regulated 1	Hyou1	100689308	205.97	208.32	253.12	257.61	254.24	271.37	23416.59	23704.86	28881.00	29065.71	28711.56	30724.46
huntingtin interacting protein K	Hypk	100753787	185.88	172.38	170.41	145.54	129.56	123.91	2069.74	1920.66	1845.74	1571.50	1459.33	1352.47
isoamyl acetate-hydrolyzing esterase 1 homolog (S. cerevisiae)	Iah1	100758521	47.88	45.98	50.02	50.08	49.95	57.52	1165.89	1137.39	1209.79	1238.89	1198.51	1371.16
islet amyloid polypeptide	Iapp	100771196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
isoleucyl-tRNA synthetase	Iars	100754316	143.63	137.64	137.64	147.51	158.21	157.64	19448.76	18863.42	18826.31	19780.44	21225.50	20902.95
isoleucyl-tRNA synthetase 2, mitochondrial	Iars2	100758227	86.93	84.20	91.66	97.04	100.80	104.17	8144.54	8069.68	8800.19	9186.76	9531.19	9756.08
IBA57, iron-sulfur cluster assembly homolog (S. cerevisiae)	Iba57	100763588	0.72	0.87	0.72	0.68	0.28	0.55	18.99	21.05	24.84	22.02	11.38	14.95
integrin-binding sialoprotein	Ibsp	100752803	0.00	0.04	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
islet cell autoantigen 1, 69kDa	Ica1	100759520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
islet cell autoantigen 1,69kDa-like	Ica1l	100764818	0.32	0.25	0.14	0.35	0.33	0.31	25.82	19.22	14.91	28.97	32.08	27.11
intercellular adhesion molecule 1	Icam1	100689428	96.09	94.61	108.55	99.02	84.40	85.41	7455.64	7388.90	8489.66	7717.25	6541.11	6667.00
intercellular adhesion molecule 2	Icam2	100750973	0.03	0.15	0.05	0.05	0.04	0.11	1.52	4.58	3.73	1.16	1.03	3.74
intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)	Icam4	100761834	4.25	3.67	3.87	2.91	1.85	2.46	178.49	153.73	149.05	111.26	78.66	114.03
intercellular adhesion molecule 5, telencephalin	Icam5	100772237	1.26	0.95	1.21	0.89	0.66	0.95	157.98	126.27	161.47	120.53	89.01	123.38
intestinal cell (MAK-like) kinase	Ick	100752955	10.89	11.02	15.44	16.90	17.73	17.04	2073.54	2118.30	2981.01	3200.94	3339.90	3236.76
isoprenylcysteine carboxyl methyltransferase	Icmt	100765763	23.71	22.40	26.14	23.49	21.90	24.16	1491.74	1394.51	1635.83	1504.28	1389.99	1520.71
inducible T-cell co-stimulator	Icos	100770410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inducible T-cell co-stimulator ligand	Icoslg	100768618	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
immature colon carcinoma transcript 1	Ict1	100757939	17.99	19.01	21.31	20.57	19.34	19.93	543.07	593.86	633.46	622.34	578.56	589.78
inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	Id1	100774183	3.25	3.46	2.43	2.36	2.24	2.57	72.92	77.78	54.65	53.31	49.68	56.08
inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	Id2	100769110	5.12	5.63	2.19	2.93	4.62	4.84	149.63	162.88	69.56	89.24	137.65	138.33
inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	Id3	100751577	34.28	36.57	28.83	23.10	22.33	23.90	823.34	869.28	700.54	548.17	545.44	562.67
insulin-degrading enzyme	Ide	100763752	19.13	18.55	19.20	20.50	21.51	20.94	2997.90	2929.02	3059.26	3267.00	3364.74	3276.02
isocitrate dehydrogenase 1 (NADP+), soluble	Idh1	100758958	16.11	16.85	14.46	15.29	19.18	16.96	960.82	997.39	849.59	903.96	1126.07	993.55

isocitrate dehydrogenase 2 (NADP+), mitochondrial	Idh2	103158535	9.55	8.85	11.94	11.55	9.42	10.22	397.24	366.01	510.50	474.00	386.05	411.25
isocitrate dehydrogenase 3 (NAD+) alpha	Idh3a	100754480	117.49	121.25	115.90	122.98	111.01	116.83	4844.34	4982.36	4866.50	5020.44	4717.47	4802.33
isocitrate dehydrogenase 3 (NAD+) beta	Idh3b	100771661	62.30	63.98	60.19	61.33	62.00	60.99	2784.47	2839.35	2685.39	2834.72	2779.97	2634.83
isocitrate dehydrogenase 3 (NAD+) gamma	Idh3g	100751753	67.43	66.05	71.08	73.52	67.35	71.46	2321.15	2320.53	2471.75	2483.57	2323.54	2465.66
isopentenyl-diphosphate delta isomerase 1	Idi1	100752366	10.33	10.19	12.25	13.22	13.77	12.78	758.78	767.71	921.63	966.54	1020.50	937.47
isopentenyl-diphosphate delta isomerase 2	Idi2	100752668	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
idnK, gluconokinase homolog (E. coli)	Idnk	100763818	29.82	31.55	32.68	36.43	25.26	26.74	819.54	848.24	886.85	1011.74	708.97	749.61
indoleamine 2,3-dioxygenase 1	Ido1	100754402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
indoleamine 2,3-dioxygenase 2	Ido2	100754111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iduronate 2-sulfatase	Ids	100763345	0.30	0.33	0.15	0.26	0.26	0.31	25.06	25.62	13.66	26.66	20.70	24.30
iduronidase, alpha-L-	Idua	100767663	20.92	20.30	20.16	17.23	13.09	15.94	1586.68	1578.43	1557.58	1326.96	1040.16	1244.05
immediate early response 2	Ier2	103161436	3.68	3.10	3.58	2.76	1.97	2.39	525.60	442.88	500.56	360.42	249.43	303.77
immediate early response 3	Ier3	100763219	26.95	24.46	16.18	11.00	10.36	11.96	820.30	746.67	488.14	331.45	317.74	363.59
immediate early response 3 interacting protein 1	Ier3ip1	100772056	21.09	22.80	22.06	22.69	25.38	24.46	818.02	861.96	844.62	858.76	963.57	922.52
immediate early response 5	Ier5	103163864	16.20	16.44	14.83	13.20	12.84	12.76	1032.21	1044.97	951.44	841.38	811.43	818.77
immediate early response 5-like	Ier5l	100770969	0.41	0.37	0.34	0.05	0.00	0.13	12.15	9.15	7.45	1.16	0.00	2.80
intermediate filament family orphan 1	Iffo1	100753382	5.07	5.09	5.68	4.44	3.58	3.80	429.14	445.62	464.54	363.90	289.80	312.18
intermediate filament family orphan 2	Iffo2	100764698	4.86	5.08	4.04	3.22	2.86	3.50	154.19	167.45	120.48	106.62	85.90	102.81
interferon, gamma-inducible protein 30	Ifi30	100759310	33.74	37.59	34.67	35.04	29.58	28.67	1200.83	1322.22	1244.57	1198.32	1012.22	972.99
interferon-induced protein 35	Ifi35	100770156	106.26	103.41	85.37	74.53	66.51	72.88	8259.99	7941.58	6496.11	5380.87	4596.37	5126.66
interferon-induced protein 44	Ifi44	100760250	0.57	0.47	0.00	0.00	0.00	0.00	27.34	24.71	0.00	0.00	0.00	0.00
interferon-induced protein 44-like	Ifi44l	100760542	0.04	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00
interferon induced with helicase C domain 1	Ifih1	100767593	1.71	1.73	2.12	2.32	2.42	2.46	238.50	240.65	293.13	316.39	334.30	336.48
interferon-induced protein with tetratricopeptide repeats 2	Ifit2	100763118	0.02	0.05	0.01	0.01	0.01	0.04	0.00	1.83	0.00	0.00	0.00	1.87
interferon-induced protein with tetratricopeptide repeats 3	Ifit3	100763410	0.00	0.02	0.00	0.00	0.01	0.03	0.00	0.92	0.00	0.00	0.00	0.93
interferon induced transmembrane protein 10	Ifitm10	100770183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon induced transmembrane protein 5	Ifitm5	100756384	0.50	0.18	0.16	0.47	0.42	0.38	8.35	5.49	3.73	10.43	6.21	5.61
intermediate filament tail domain containing 1	Ifltd1	100764631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon (alpha, beta and omega) receptor 1	Ifnar1	100768581	20.72	21.04	25.67	25.42	24.45	25.89	2312.80	2365.36	2881.64	2831.24	2723.05	2894.67
interferon, epsilon	Ifne	100761194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon, gamma	Ifng	100768486	0.07	0.03	0.00	0.04	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
interferon gamma receptor 1	Ifngr1	100772793	16.02	16.00	15.96	16.63	17.32	16.44	811.95	811.63	811.08	850.65	898.37	840.27
interferon gamma receptor 2 (interferon gamma transducer 1)	Ifngr2	100768877	11.72	11.01	10.79	11.17	11.12	10.08	603.07	570.98	570.12	579.46	579.59	534.63
interferon, kappa	Ifnk	100766116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

interferon, lambda receptor 1	Ifnlr1	100756839	0.04	0.00	0.00	0.03	0.02	0.00	3.80	4.58	6.21	2.32	3.10	2.80
interferon-related developmental regulator 1	Ifrd1	100772061	176.27	182.40	183.26	200.32	217.55	225.78	8450.63	8737.66	8775.34	9391.89	10328.13	10644.95
interferon-related developmental regulator 2	Ifrd2	100753618	82.80	78.54	87.13	63.65	45.82	52.08	5258.29	5048.24	5625.41	4087.51	3003.53	3358.27
intraflagellar transport 122 homolog (Chlamydomonas)	Ift122	100771127	2.41	2.45	2.97	2.71	2.96	2.99	308.37	316.60	370.14	341.88	369.49	371.06
intraflagellar transport 140 homolog (Chlamydomonas)	Ift140	100774958	8.08	8.25	9.03	9.57	9.78	10.53	1402.87	1453.99	1615.95	1674.64	1748.09	1821.67
intraflagellar transport 172 homolog (Chlamydomonas)	Ift172	100757945	13.42	13.27	12.29	12.74	13.88	14.52	2250.51	2260.13	2065.59	2119.66	2323.54	2432.95
intraflagellar transport 20 homolog (Chlamydomonas)	Ift20	100759277	24.51	24.48	26.45	25.62	26.53	25.69	745.87	739.35	798.66	755.62	804.18	768.30
intraflagellar transport 22 homolog (Chlamydomonas)	Ift22	100768415	4.19	3.09	5.15	4.82	3.65	4.48	65.32	57.65	70.80	71.85	71.41	77.58
intraflagellar transport 27 homolog (Chlamydomonas)	Ift27	100772135	38.44	36.93	47.86	46.21	43.93	43.82	1175.77	1160.26	1521.56	1438.22	1401.37	1372.10
intraflagellar transport 43 homolog (Chlamydomonas)	Ift43	100757117	18.33	18.26	17.31	17.56	18.03	19.92	405.59	392.55	375.11	369.70	380.87	422.47
intraflagellar transport 46 homolog (Chlamydomonas)	Ift46	100758681	56.98	54.19	61.65	58.46	60.02	63.25	2776.12	2674.64	3056.78	2888.03	2979.73	3057.30
intraflagellar transport 52 homolog (Chlamydomonas)	Ift52	100772375	89.35	88.38	81.89	87.10	96.40	98.01	5618.31	5675.04	5244.09	5466.63	6133.33	6133.30
	Ift57	100758071	24.87	26.15	25.28	29.46	31.14	26.73	612.95	638.69	634.71	699.99	768.99	653.33
intraflagellar transport 74 homolog (Chlamydomonas)	Ift74	100765142	22.49	20.00	20.65	24.56	26.75	24.32	1454.52	1335.03	1332.76	1581.93	1681.85	1532.86
intraflagellar transport 80 homolog (Chlamydomonas)	Ift80	100767321	13.26	13.50	12.83	15.64	16.34	16.05	1158.30	1220.65	1147.69	1396.50	1448.98	1414.16
intraflagellar transport 81 homolog (Chlamydomonas)	Ift81	100765323	10.81	11.23	11.54	13.84	15.34	13.80	854.48	893.07	921.63	1068.52	1163.32	1044.03
intraflagellar transport 88 homolog (Chlamydomonas)	Ift88	100761553	4.41	4.63	4.11	5.29	5.77	5.33	421.54	448.37	404.92	504.13	545.44	520.61
immunoglobulin (CD79A) binding protein 1	Igbp1	100768558	40.73	44.14	49.70	49.24	51.98	51.48	1477.30	1580.26	1809.72	1744.17	1851.59	1837.56
immunoglobulin superfamily, DCC subclass, member 3	Igdcc3	100753053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
immunoglobulin superfamily, DCC subclass, member 4	Igdcc4	100752753	2.62	3.08	3.08	2.68	2.28	2.66	491.42	581.96	608.62	513.40	431.59	502.85
insulin-like growth factor 1 (somatomedin C)	Igf1	100751642	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin-like growth factor 1 receptor	Igf1r	100768531	2.74	2.58	3.79	3.63	4.00	4.53	387.37	359.61	524.16	502.97	562.00	638.38
insulin-like growth factor 2 (somatomedin A)	Igf2	100762359	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin-like growth factor 2 mRNA binding protein 1	Igf2bp1	100754118	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
insulin-like growth factor 2 mRNA binding protein 2	Igf2bp2	100755568	25.36	26.40	25.97	29.15	30.99	29.46	2801.94	2893.34	2808.36	3218.32	3368.88	3198.44
insulin-like growth factor 2 mRNA binding protein 3	Igf2bp3	100764384	3.56	3.40	2.85	3.54	2.91	3.18	330.40	325.75	269.53	325.66	273.24	277.60
insulin-like growth factor 2 receptor	Igf2r	100762916	39.90	38.63	23.23	24.57	23.84	24.76	10299.35	9971.12	6015.43	6313.80	6120.91	6373.51
insulin-like growth factor binding protein, acid labile subunit	Igfals	100753202	0.24	0.24	0.24	0.31	0.22	0.26	22.03	21.96	23.60	27.81	18.63	20.56
insulin-like growth factor binding protein 1	Igfbp1	100763682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

insulin-like growth factor binding protein 2, 36kDa	Igfbp2	100757494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin-like growth factor binding protein 3	Igfbp3	100764858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin-like growth factor binding protein 4	Igfbp4	100772587	999.60	986.83	255.02	289.66	425.53	425.98	57465.98	56848.29	14762.20	16591.10	24303.55	24499.56
insulin-like growth factor binding protein 5	Igfbp5	100754876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin-like growth factor binding protein 6	Igfbp6	100751810	0.17	0.12	0.45	0.16	0.05	0.13	5.32	4.58	13.66	4.64	5.17	5.61
insulin-like growth factor binding protein 7	Igfbp7	100757355	0.38	0.46	0.18	0.26	0.08	0.00	6.08	7.32	2.48	2.32	1.03	0.93
insulin-like growth factor binding protein-like 1	Igfbpl1	100769562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IGF-like family receptor 1	Igflr1	100775057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
immunoglobulin-like and fibronectin type III domain containing 1	Igfn1	100765216	0.01	0.00	0.00	0.00	0.00	0.00	4.56	0.92	0.00	0.00	0.00	0.00
immunoglobulin mu binding protein 2	Ighmbp 2	100754637	13.47	12.71	13.54	10.70	8.15	8.88	1481.10	1371.64	1520.31	1163.56	909.75	991.68
IgA-inducing protein	Igip	100757565	1.80	1.47	1.27	2.37	2.36	2.13	113.17	92.42	85.70	146.02	141.79	130.85
immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides	Igj	100774033	5.18	4.87	3.55	4.61	5.42	4.54	132.16	158.30	108.06	112.42	146.97	123.38
immunoglobulin lambda-like polypeptide 5	Igll5	100754596	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IgLON family member 5	Iglon5	100754556	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 1	Igsf1	100768646	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 10	Igsf10	100770822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 11	Igsf11	100751379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobin superfamily, member 21	Igsf21	100770461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 22	Igsf22	103164228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 3	Igsf3	100769189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 5	Igsf5	100765526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily, member 6	Igsf6	103159815	0.05	0.06	0.00	0.00	0.00	0.00	4.56	7.32	11.18	8.11	13.45	3.74
immunoglobulin superfamily, member 8	Igsf8	100763950	14.77	14.67	7.44	5.77	3.69	3.84	959.30	947.97	517.95	396.35	254.61	269.18
immunoglobulin superfamily, member 9	Igsf9	100755364	0.13	0.19	0.04	0.01	0.03	0.02	18.23	25.62	4.97	1.16	4.14	1.87
immunoglobulin superfamily, member 9B	Igsf9b	100752572	0.01	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
indian hedgehog	Ihh	100774896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IK cytokine, down-regulator of HLA II	Ik	100754728	29.17	29.45	31.60	34.27	36.16	35.89	1761.37	1778.83	1910.33	2035.06	2164.16	2123.57
IKBKB interacting protein	Ikbip	100757532	17.14	17.14	17.79	18.93	22.23	21.38	1336.03	1354.25	1414.74	1519.34	1758.44	1739.42
inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein	Ikbkap	100767755	58.49	56.60	57.98	60.04	57.02	60.51	8746.09	8734.91	8923.15	9055.80	8515.87	8906.47

inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	Ikbkb	100750488	14.68	15.25	15.86	15.99	14.76	16.18	1618.58	1627.84	1758.79	1761.56	1608.37	1770.26
inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon	Ikbke	100761646	2.01	2.37	2.76	2.47	2.04	2.40	213.43	238.82	270.77	243.37	207.00	257.97
inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma	Ikbkg	100759762	10.54	10.91	10.82	11.12	11.64	12.34	2082.66	2158.56	2157.50	2203.11	2264.55	2432.95
IKAROS family zinc finger 1 (Ikaros)	Ikzf1	100759224	0.00	0.00	0.00	0.00	0.00	0.07	1.52	0.00	0.00	2.32	1.03	2.80
IKAROS family zinc finger 2 (Helios)	Ikzf2	100760184	0.58	0.53	0.25	0.20	0.27	0.29	53.17	53.07	24.84	22.02	32.08	27.11
IKAROS family zinc finger 3 (Aiolos)	Ikzf3	100768701	0.08	0.09	0.04	0.00	0.09	0.06	5.32	6.41	2.48	1.16	5.17	3.74
IKAROS family zinc finger 4 (Eos)	Ikzf4	100768259	0.29	0.19	0.39	0.43	0.32	0.27	38.74	26.54	52.17	59.10	45.54	35.52
IKAROS family zinc finger 5 (Pegasus)	Ikzf5	100766537	17.08	16.57	14.32	16.14	15.67	15.20	1342.87	1321.31	1125.33	1278.29	1235.77	1206.66
interleukin 10	Il10	100759320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 10 receptor, alpha	Il10ra	100762009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 10 receptor, beta	Il10rb	100768006	13.95	14.75	13.78	13.90	16.52	14.58	1181.08	1230.72	1119.12	1138.06	1326.85	1206.66
interleukin 11	Il11	100773527	3.63	2.86	0.50	0.79	0.42	0.44	85.83	64.05	19.87	20.86	13.45	14.02
interleukin 11 receptor, alpha	Il11ra	100752228	10.02	9.60	11.21	10.34	7.64	8.72	485.35	473.99	541.55	512.24	362.25	414.06
interleukin 12A	Il12a	100760602	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 12B	Il12b	100764758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 12 receptor, beta 1	Il12rb1	100763378	0.02	0.04	0.00	0.01	0.00	0.00	6.08	5.49	1.24	3.48	0.00	0.00
interleukin 12 receptor, beta 2	Il12rb2	100758602	0.02	0.08	0.06	0.07	0.15	0.09	3.04	7.32	4.97	10.43	17.59	15.89
interleukin 13	Il13	100762597	0.00	0.00	0.00	0.18	0.00	0.00	0.00	1.83	0.00	1.16	1.03	0.93
interleukin 13 receptor, alpha 1	Il13ra1	100771375	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
interleukin 13 receptor, alpha 2	Il13ra2	100754617	19.15	16.83	6.62	8.22	9.41	9.29	828.66	720.13	296.86	348.83	397.43	405.65
interleukin 15	Il15	100772160	7.09	8.44	16.65	17.49	20.08	19.36	235.46	259.87	516.71	516.88	563.03	520.61
interleukin 15 receptor, alpha	Il15ra	100755321	3.49	4.71	3.26	3.38	2.87	2.52	161.02	199.48	139.11	141.39	132.48	125.25
interleukin 16	Il16	100767901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 17A	Il17a	100750422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 17B	Il17b	100757725	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 17C	Il17c	100767127	0.66	0.49	0.32	0.38	0.31	0.36	36.46	30.20	18.63	23.18	17.59	24.30
interleukin 17D	Il17d	100763580	5.49	6.26	5.82	5.93	6.65	4.91	208.87	235.16	229.79	225.99	247.36	189.74
interleukin 17F	Il17f	100751004	0.68	0.61	0.33	0.31	0.37	0.33	22.03	17.39	8.69	8.11	12.42	10.28
interleukin 17 receptor A	Il17ra	100754214	7.07	7.10	7.13	6.86	5.29	5.68	871.95	870.20	869.46	846.01	638.59	704.74
interleukin 17 receptor B	Il17rb	100753686	0.00	0.00	0.03	0.03	0.00	0.02	0.00	0.00	2.48	1.16	1.03	0.93
interleukin 17 receptor C	Il17rc	100751334	1.94	1.72	3.48	3.14	2.42	3.15	197.48	180.26	334.12	304.80	267.03	311.25
interleukin 17 receptor D	Il17rd	100751618	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 17 receptor E	Il17re	100751042	0.23	0.30	0.21	0.18	0.25	0.31	41.02	39.35	34.78	41.72	30.01	42.06
interleukin 18	Il18	100750469	25.10	22.89	22.10	26.15	29.49	29.96	903.09	868.37	809.84	932.93	1053.62	1070.20
interleukin 18 receptor 1	Il18r1	100758160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 18 receptor accessory protein	Il18rap	100757868	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
interleukin 19	Il19	100774163	0.08	0.04	0.26	0.20	0.39	0.13	2.28	0.92	6.21	8.11	10.35	4.67
interleukin 1, alpha	Il1a	100769260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 1, beta	Il1b	100775079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
interleukin 1 family, member 10 (theta)	Il1f10	100752197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

interleukin 1 receptor, type I	Il1r1	100758740	10.42	10.16	11.88	11.08	12.56	12.22	1456.04	1432.03	1671.85	1543.68	1735.67	1689.88
interleukin 1 receptor, type II	Il1r2	100759030	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
interleukin 1 receptor accessory protein	Il1rap	100771447	15.10	15.59	15.73	16.95	19.37	18.80	1734.79	1792.55	1809.72	1987.55	2247.99	2191.80
interleukin 1 receptor accessory protein-like 1	Il1rapl1	100767870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 1 receptor accessory protein-like 2	Il1rapl2	100771606	0.00	0.00	0.03	0.14	0.10	0.05	1.52	0.00	1.24	5.79	6.21	1.87
interleukin 1 receptor-like 1	Il1rl1	100760768	1.55	1.80	0.40	0.59	0.75	0.70	180.01	206.80	43.47	67.22	87.97	83.19
interleukin 1 receptor-like 2	Il1rl2	100758449	0.11	0.14	0.03	0.03	0.19	0.03	8.35	14.64	7.45	2.32	14.49	6.54
interleukin 1 receptor antagonist	Il1rn	100751912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 2	Il2	100755773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 20	Il20	100770693	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
interleukin 20 receptor, alpha	Il20ra	100751800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 20 receptor beta	Il20rb	100772546	0.00	0.04	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	1.03	1.87
interleukin 21	Il21	100755479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 21 receptor	Il21r	100763133	0.34	0.23	0.15	0.10	0.08	0.03	29.62	26.54	11.18	9.27	5.17	4.67
interleukin 22	Il22	100768781	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 22 receptor, alpha 1	Il22ra1	100756546	3.22	3.48	3.14	3.36	2.84	2.95	412.43	450.20	402.44	418.37	366.39	400.97
interleukin 22 receptor, alpha 2	Il22ra2	100751510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 23, alpha subunit p19	Il23a	100765061	0.14	0.06	0.07	0.04	0.06	0.03	7.60	7.32	3.73	3.48	4.14	1.87
interleukin 23 receptor	Il23r	100758310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 24	Il24	100773869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 25	Il25	100766813	1.94	1.77	1.03	1.20	1.01	0.90	85.07	80.52	49.68	64.90	48.64	54.21
interleukin 27	Il27	100753480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
interleukin 27 receptor, alpha	Il27ra	100760191	0.06	0.07	0.02	0.02	0.04	0.02	3.80	6.41	2.48	1.16	3.10	2.80
interleukin 2 receptor, alpha	Il2ra	100764797	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 2 receptor, beta	Il2rb	100769948	0.09	0.03	0.04	0.00	0.00	0.03	3.04	2.75	1.24	0.00	0.00	0.93
interleukin 2 receptor, gamma	Il2rg	100756284	0.20	0.18	0.21	0.28	0.04	0.19	6.08	10.98	6.21	9.27	1.03	5.61
interleukin 31	Il31	100754195	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	1.87
interleukin 31 receptor A	Il31ra	100770824	0.07	0.06	0.14	0.10	0.15	0.15	9.87	10.98	21.12	13.91	20.70	22.43
interleukin 33	Il33	100761971	0.20	0.13	0.03	0.09	0.19	0.16	15.95	10.07	2.48	6.95	14.49	12.15
interleukin 34	Il34	100753324	0.08	0.07	0.09	0.00	0.08	0.00	3.80	1.83	2.48	0.00	2.07	0.00
interleukin 36, alpha	Il36a	100757088	0.08	0.00	0.55	0.13	0.34	0.63	0.76	2.75	11.18	3.48	8.28	9.35
interleukin 36, beta	Il36b	100773970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
interleukin 36, gamma	Il36g	100757380	1.10	0.99	1.64	1.65	1.80	1.75	90.39	84.18	139.11	141.39	149.04	147.68
interleukin 36 receptor antagonist	Il36rn	100752490	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 4	Il4	100755642	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 4 induced 1	Il4i1	100773063	0.67	0.59	0.57	0.36	0.17	0.32	60.00	61.31	63.35	47.52	34.15	46.73
interleukin 4 receptor	Il4r	100762840	11.61	11.16	11.45	10.08	7.37	8.06	1090.70	1044.97	1098.00	972.33	706.90	771.10
interleukin 5	Il5	100755060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 5 receptor, alpha	Il5ra	100762117	0.01	0.05	0.00	0.00	0.06	0.07	1.52	3.66	0.00	2.32	3.10	5.61
interleukin 6	Il6	100689186	5.81	5.08	3.27	3.76	4.48	3.85	163.30	149.15	98.12	111.26	128.34	107.49
interleukin 6 receptor	Il6r	100750971	0.55	0.67	0.57	0.65	0.61	0.49	41.02	49.41	38.50	49.83	40.36	37.39
interleukin 6 signal transducer	Il6st	100767181	55.67	55.79	57.16	65.25	69.01	65.98	8390.63	8398.18	8684.67	9752.31	10271.20	9928.06
interleukin 7	Il7	100756443	0.29	0.17	0.30	0.20	0.35	0.33	21.27	11.90	21.12	12.75	24.84	21.50
interleukin 7 receptor	Il7r	100757700	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

interleukin 9	Il9	100755564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin 9 receptor	Il9r	100759467	0.22	0.23	0.09	0.08	0.13	0.07	16.71	15.56	6.21	8.11	12.42	4.67
immunoglobulin-like domain containing receptor 1	Ildr1	100766502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin-like domain containing receptor 2	Ildr2	100772155	9.77	9.82	10.16	10.75	9.03	8.47	442.81	440.13	447.15	461.25	390.19	386.95
interleukin enhancer binding factor 2	Ilf2	100768916	41.18	43.23	47.34	52.32	52.21	51.62	1935.31	2016.73	2176.14	2410.55	2391.85	2375.93
interleukin enhancer binding factor 3, 90kDa	Ilf3	100757497	79.19	79.69	85.66	77.28	62.21	65.01	7791.35	8021.18	8740.57	7827.34	6441.75	6532.41
integrin-linked kinase	Ilk	100689388	68.01	69.52	91.40	98.74	99.43	103.65	3327.54	3457.00	4439.22	4680.88	4651.23	4829.44
integrin-linked kinase-associated serine/threonine phosphatase	Ilkap	100773641	50.44	52.10	50.80	50.08	47.08	47.49	1766.69	1834.64	1791.09	1714.04	1641.49	1678.67
ilvB (bacterial acetolactate synthase)-like	Ilvbl	100752439	10.46	10.73	12.02	9.64	8.47	9.87	739.03	753.99	883.12	696.51	598.22	686.05
IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae)	Immp1l	100766368	25.54	26.91	20.32	23.55	25.90	23.83	603.07	634.12	455.85	528.47	597.19	586.04
inner membrane protein, mitochondrial	Immt	100762629	70.54	72.22	74.32	79.67	82.78	81.81	6240.37	6410.72	6632.74	6994.08	7239.73	7210.98
IMP3, U3 small nucleolar ribonucleoprotein	Imp3	100760961	60.09	58.07	63.93	46.97	38.86	44.09	1479.58	1428.37	1609.74	1182.10	965.64	1101.04
IMP4, U3 small nucleolar ribonucleoprotein	Imp4	100773345	67.56	65.27	65.96	55.36	41.69	44.91	2847.51	2833.86	2867.98	2382.74	1815.37	1905.79
inositol(myo)-1(or 4)-monophosphatase 1	Impa1	100760520	23.28	21.38	18.91	19.75	23.51	21.97	1279.06	1296.60	1161.35	1185.58	1407.58	1341.25
inositol(myo)-1(or 4)-monophosphatase 2	Impa2	100763112	3.14	3.99	2.73	2.30	2.00	2.46	149.63	187.58	135.39	105.46	102.46	112.16
impact RWD domain protein	Impact	100774193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inositol monophosphatase domain containing 1	Impad1	100756245	26.09	26.07	23.49	26.27	29.28	28.56	2409.26	2408.37	2196.01	2403.60	2686.82	2669.42
IMP (inosine 5'-monophosphate) dehydrogenase 1	Impdh1	100760550	37.07	36.06	31.61	28.60	21.17	22.74	2479.90	2429.41	2183.59	1919.17	1446.91	1527.25
IMP (inosine 5'-monophosphate) dehydrogenase 2	Impdh2	100689398	178.30	179.54	209.76	222.48	219.11	214.67	8319.99	8486.94	9771.50	10109.26	10053.86	9787.86
interphotoreceptor matrix proteoglycan 1	Impg1	100766332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interphotoreceptor matrix proteoglycan 2	Impg2	100756357	0.01	0.01	0.01	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
internexin neuronal intermediate filament protein, alpha	Ina	100763646	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
InaD-like (Drosophila)	Inadl	100755532	0.79	0.87	0.44	0.65	0.73	0.74	150.39	167.45	88.19	114.73	141.79	141.14
inhibitor of CDK, cyclin A1 interacting protein 1	Inca1	100772801	0.15	0.04	0.00	0.05	0.04	0.11	6.84	2.75	2.48	4.64	6.21	7.48
inner centromere protein antigens 135/155kDa	Incenp	100770889	21.12	21.04	21.08	20.54	19.76	19.33	3245.51	3243.79	3214.52	3075.77	2960.06	2898.41
inhibitor of growth family, member 1	Ing1	100767785	38.33	37.24	50.31	48.70	47.49	49.44	1626.17	1584.84	2126.45	2020.00	1943.70	2006.74
inhibitor of growth family, member 2	Ing2	100755912	20.73	20.57	23.28	25.50	26.73	22.68	625.86	620.39	711.72	783.43	808.32	711.28
inhibitor of growth family, member 3	Ing3	100766428	26.20	26.43	30.37	32.70	36.13	35.57	1354.26	1425.62	1629.62	1698.98	1889.88	1857.19
inhibitor of growth family, member 4	Ing4	100754938	21.21	25.45	21.67	21.34	26.16	26.30	837.01	935.16	955.16	907.43	951.15	989.82
inhibitor of growth family, member 5	Ing5	100755543	12.19	12.97	14.28	13.41	13.54	13.08	394.20	405.36	429.76	445.03	457.46	412.19
inhibin, alpha	Inha	100766733	2.08	2.21	2.07	1.87	1.14	1.43	85.07	87.84	79.49	74.17	44.50	54.21
inhibin, beta A	Inhba	100762446	0.00	0.02	0.00	0.03	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
inhibin, beta B	Inhbb	100759312	10.07	10.36	7.43	7.21	6.95	7.79	755.74	777.78	557.70	537.74	507.14	582.30

inhibin, beta C	Inhbc	100755878	0.11	0.03	0.04	0.08	0.04	0.10	3.80	2.75	1.24	2.32	0.00	2.80
inhibin, beta E	Inhbe	100756167	0.03	0.06	0.03	0.00	0.00	0.06	1.52	6.41	2.48	2.32	0.00	2.80
INTS3 and NABP interacting protein	Inip	100770269	19.71	20.58	22.17	25.58	23.93	22.43	2014.30	2097.26	2265.57	2605.25	2419.80	2282.46
indolethylamine N-methyltransferase	Inmt	100773805	0.21	0.15	0.04	0.06	0.06	0.05	26.58	25.62	3.73	9.27	13.45	5.61
INO80 complex subunit	Ino80	100762469	27.42	26.92	23.15	24.82	23.35	23.75	4987.13	5028.11	4329.91	4592.80	4306.58	4351.82
INO80 complex subunit B	Ino80b	100764793	20.76	19.02	25.23	21.04	17.59	18.28	591.68	560.00	731.59	579.46	482.30	509.39
INO80 complex subunit C	Ino80c	100766878	9.31	10.12	7.96	9.20	9.59	9.83	679.03	737.52	583.78	676.81	695.51	718.76
INO80 complex subunit D	Ino80d	100754682	2.52	2.48	2.36	2.86	2.89	3.08	723.08	705.49	696.81	829.79	836.27	884.20
INO80 complex subunit E	Ino80e	100773645	27.99	28.74	35.97	31.47	23.63	26.36	1065.63	1106.28	1355.12	1153.13	907.68	979.53
inositol polyphosphate-1-phosphatase	Inpp1	100755639	14.64	12.27	12.04	13.36	12.79	12.91	521.80	454.77	452.12	480.95	464.71	475.75
inositol polyphosphate-4-phosphatase, type I, 107kDa	Inpp4a	100767245	7.35	7.39	7.47	7.58	7.61	8.41	1253.24	1256.34	1294.25	1310.74	1297.87	1427.24
inositol polyphosphate-4-phosphatase, type II, 105kDa	Inpp4b	100771589	0.00	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
inositol polyphosphate-5-phosphatase, 40kDa	Inpp5a	100760037	11.60	10.97	13.27	13.14	12.77	13.24	543.83	514.25	608.62	596.84	537.16	561.74
inositol polyphosphate-5-phosphatase, 75kDa	Inpp5b	100751850	24.47	24.81	28.09	30.45	33.42	33.85	2509.52	2571.24	2845.62	3066.50	3425.80	3485.38
inositol polyphosphate-5-phosphatase, 145kDa	Inpp5d	100764735	0.26	0.28	0.21	0.24	0.28	0.27	36.46	38.43	29.81	32.45	38.29	38.32
inositol polyphosphate-5-phosphatase, 72 kDa	Inpp5e	100759837	11.16	11.20	12.92	12.59	11.43	11.84	1276.03	1281.96	1495.47	1466.03	1317.54	1375.83
inositol polyphosphate-5-phosphatase F	Inpp5f	100753756	7.17	6.86	7.29	8.13	8.41	8.12	965.37	926.01	984.97	1094.02	1146.76	1088.89
inositol polyphosphate-5-phosphatase J	Inpp5j	100761777	2.70	2.33	2.06	1.58	1.17	1.33	306.85	255.29	219.85	177.31	130.41	146.74
inositol polyphosphate-5-phosphatase K	Inpp5k	100764873	14.49	15.17	20.56	20.85	20.08	20.19	1209.95	1271.90	1733.95	1755.76	1710.83	1702.97
inositol polyphosphate phosphatase-like 1	Inppl1	100772102	30.65	29.26	37.15	33.92	29.65	32.24	4137.21	3979.48	5065.23	4685.51	4210.32	4503.24
insulin	Ins	100760716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin induced gene 1	Insig1	100689080	3.69	3.45	4.19	4.53	3.86	4.36	230.14	220.52	272.02	287.41	244.26	272.92
insulin induced gene 2	Insig2	100689079	12.92	13.50	12.19	13.90	17.61	16.49	862.08	904.97	832.20	958.43	1158.15	1115.06
insulin-like 3 (Leydig cell)	Insl3	100754203	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
insulin-like 5	Insl5	100752144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
insulin-like 6	Insl6	100769626	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin receptor	Insr	100766818	7.90	7.57	7.45	7.39	6.50	6.88	1183.36	1162.09	1155.14	1150.81	994.62	1065.52
insulin receptor-related receptor	Insrr	100750978	0.01	0.00	0.00	0.01	0.00	0.01	0.76	0.00	0.00	0.00	0.00	0.93
integrator complex subunit 1	Ints1	100764130	12.39	11.85	11.77	8.66	6.63	7.49	2924.99	2828.37	2776.06	2062.88	1588.70	1801.11
integrator complex subunit 10	Ints10	100755256	28.84	29.01	29.23	31.13	34.36	31.81	2049.24	2104.58	2114.03	2210.06	2453.95	2284.33
integrator complex subunit 12	Ints12	100755340	29.12	27.56	23.16	22.18	22.79	24.03	1241.09	1162.09	1017.27	952.63	962.54	1024.40
integrator complex subunit 2	Ints2	100774909	13.17	13.06	6.77	7.51	8.07	7.89	1630.73	1618.69	844.62	927.14	973.92	944.95
integrator complex subunit 3	Ints3	100768339	22.22	20.90	24.07	24.97	22.66	24.37	2844.47	2704.84	3092.80	3142.99	2880.37	2993.75
integrator complex subunit 4	Ints4	100767027	25.32	26.04	28.66	28.65	28.78	31.25	2407.74	2478.83	2753.71	2706.08	2750.99	2986.27
integrator complex subunit 5	Ints5	100751877	17.14	16.42	19.04	16.96	12.62	13.87	1564.65	1505.23	1758.79	1559.91	1155.04	1276.76
integrator complex subunit 6	Ints6	100761628	22.83	24.06	25.15	28.11	27.56	25.40	1835.05	1918.83	1992.31	2235.56	2177.61	2009.54
integrator complex subunit 7	Ints7	100750715	9.98	9.63	9.77	10.46	9.48	9.51	1142.35	1118.17	1116.64	1199.48	1088.81	1106.65
integrator complex subunit 8	Ints8	100757889	6.87	6.65	9.37	9.54	10.89	8.99	743.59	708.24	996.15	1001.31	1125.03	955.23

integrator complex subunit 9	Ints9	100752291	6.20	6.47	7.55	7.54	6.96	7.24	486.86	531.63	618.56	606.12	576.49	590.71
inturned planar cell polarity protein	Intu	100771987	9.73	9.54	11.85	13.29	11.45	11.57	1032.21	1017.52	1264.44	1408.09	1216.11	1220.68
inversin	Invs	100750579	7.59	7.57	8.24	8.97	10.03	11.06	879.55	873.86	920.39	1021.01	1106.40	1215.07
inositol hexakisphosphate kinase 1	Ip6k1	100760280	39.87	39.20	50.86	47.45	37.89	43.80	5226.39	5147.98	6694.85	6203.70	4939.99	5731.39
inositol hexakisphosphate kinase 2	Ip6k2	100759816	14.44	13.15	17.36	16.16	14.07	15.08	860.56	788.76	965.10	879.62	779.34	828.12
inositol hexakisphosphate kinase 3	Ip6k3	100772883	0.06	0.12	0.05	0.04	0.10	0.09	4.56	6.41	2.48	3.48	6.21	5.61
interaction protein for cytohesin exchange factors 1	Ipcef1	100774344	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.93
inositol polyphosphate multikinase	Ipmk	100772629	6.28	6.50	7.08	7.79	7.76	8.04	927.40	972.68	1059.50	1155.44	1147.80	1193.57
importin 11	Ipo11	100756698	28.34	28.16	27.62	32.08	35.15	33.47	3635.15	3646.41	3607.02	4104.89	4499.09	4313.50
importin 13	Ipo13	100754981	15.27	14.22	17.80	16.55	13.15	14.35	1765.93	1680.92	2074.29	1901.79	1523.50	1676.80
importin 4	Ipo4	100760098	62.41	58.90	61.78	55.22	42.86	48.45	6822.94	6471.12	6712.24	6014.79	4705.05	5304.25
importin 5	Ipo5	100764714	198.08	201.48	200.46	210.79	215.88	224.04	23283.67	24199.89	24202.06	25119.59	25616.95	26186.64
importin 7	Ipo7	100752357	89.42	89.56	77.31	82.75	83.02	78.10	13379.28	13452.82	11658.23	12319.32	12272.87	11691.78
importin 8	Ipo8	100762731	5.81	5.63	5.69	6.47	6.04	6.84	590.16	580.13	566.39	661.74	592.01	668.29
importin 9	Ipo9	100756041	45.19	45.35	42.23	42.50	42.15	44.53	5620.59	5711.64	5309.92	5329.87	5234.96	5481.84
intracisternal A particle-promoted polypeptide	Ipp	100774648	4.20	4.56	4.61	4.64	6.35	5.58	423.06	443.79	467.02	461.25	627.20	569.21
inositol 1,3,4,5,6-pentakisphosphate 2-kinase	Ippk	100755765	9.37	9.17	7.41	8.15	8.63	8.26	669.91	639.61	511.74	567.87	617.89	552.39
IQ motif containing with AAA domain 1	Iqca1	100768381	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IQ motif containing B1	Iqcb1	100765421	9.93	9.63	14.69	14.40	16.16	17.00	664.60	646.01	967.59	973.49	1053.62	1108.52
IQ motif containing C	Iqcc	100760183	8.02	8.37	9.55	9.92	12.73	11.74	372.93	387.06	439.70	451.98	572.35	535.57
IQ motif containing D	Iqcd	100771431	0.75	1.07	1.36	1.15	1.21	1.05	50.89	56.73	80.74	59.10	62.10	57.95
IQ motif containing E	Iqce	100761808	0.82	0.99	0.77	0.74	0.70	0.96	157.22	188.50	150.29	141.39	140.76	183.20
IQ motif containing F1	Iqcf1	100766292	0.42	0.19	0.59	0.16	0.43	0.32	24.31	21.96	14.91	16.22	22.77	24.30
IQ motif containing F2	Iqcf2	100767170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IQ motif containing F3	Iqcf3	100767457	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IQ motif containing F5	Iqcf5	100766585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IQ motif containing G	Iqcg	100764504	0.69	0.72	0.62	0.49	0.92	0.74	45.57	47.58	36.02	32.45	54.85	45.80
IQ motif containing H	Iqch	100759510	0.11	0.15	0.11	0.15	0.20	0.07	12.91	18.30	12.42	17.38	18.63	12.15
IQ motif containing J	Iqcj	103160084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IQ motif containing K	Iqck	100763057	2.56	2.39	3.61	3.77	3.51	3.86	149.63	120.78	191.28	210.92	198.72	213.10
IQ motif containing GTPase activating protein 1	Iqgap1	100757264	68.75	69.18	72.32	76.98	48.01	48.81	13142.31	13376.88	13941.18	14547.92	9088.21	9200.89
IQ motif containing GTPase activating protein 2	Iqgap2	100761545	8.51	8.59	8.40	10.50	10.27	9.21	1430.21	1461.31	1429.64	1778.94	1717.04	1525.38
IQ motif containing GTPase activating protein 3	Iqgap3	100754110	14.81	15.30	16.44	16.18	14.65	15.46	2642.44	2737.78	2951.20	2888.03	2660.95	2761.01
IQ motif and Sec7 domain 1	Iqsec1	100763049	8.93	8.07	8.49	6.55	5.00	5.61	854.48	794.25	840.89	657.11	496.79	572.02
IQ motif and Sec7 domain 2	Iqsec2	100762612	0.87	0.94	1.00	0.93	0.81	0.71	91.90	101.57	116.76	97.35	84.87	75.71
IQ motif and Sec7 domain 3	Iqsec3	100756354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IQ motif and ubiquitin domain containing	Iqub	100759138	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
interleukin-1 receptor-associated kinase 1	Irak1	100773909	31.94	32.03	27.00	26.88	26.95	27.98	3048.79	3050.72	2634.47	2546.15	2544.00	2681.57
interleukin-1 receptor-associated kinase 1 binding protein 1	Irak1bp 1	100758003	27.91	30.28	30.35	32.31	34.25	29.86	823.34	883.92	875.67	907.43	982.20	851.48

interleukin-1 receptor-associated kinase 2	Irak2	100758629	9.39	9.54	10.21	10.63	12.32	11.43	803.59	819.87	873.19	893.53	1037.06	975.80
interleukin-1 receptor-associated kinase 3	Irak3	100767434	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
interleukin-1 receptor-associated kinase 4	Irak4	100751891	6.52	5.98	7.45	8.08	8.32	7.44	490.66	441.96	563.91	601.48	620.99	575.76
iron-responsive element binding protein 2	Ireb2	100756122	20.27	19.61	18.96	21.50	21.81	20.69	3219.69	3144.06	3051.81	3400.27	3477.55	3327.42
interferon regulatory factor 1	Irf1	100756092	23.53	21.65	13.88	16.09	18.90	22.94	439.01	403.53	279.47	300.16	371.56	439.29
interferon regulatory factor 2	Irf2	100753270	11.54	12.57	13.97	14.50	14.32	13.96	772.45	850.07	939.02	945.68	956.33	926.26
interferon regulatory factor 2 binding protein 2	Irf2bp2	100770683	9.97	9.63	10.05	10.52	9.94	10.36	1177.29	1127.32	1191.16	1234.25	1157.11	1216.01
interferon regulatory factor 2 binding protein-like	Irf2bpl	100762712	6.77	6.91	5.24	4.58	4.36	4.02	629.66	645.10	495.59	426.48	404.68	378.54
interferon regulatory factor 3	Irf3	100765676	9.73	9.74	12.54	10.65	9.79	10.37	561.30	543.53	727.86	593.37	517.49	546.78
interferon regulatory factor 4	Irf4	100755524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon regulatory factor 5	Irf5	100753482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80
interferon regulatory factor 6	Irf6	100761633	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
interferon regulatory factor 7	Irf7	100755889	1.04	1.29	1.39	1.63	1.06	1.30	53.93	61.31	65.83	69.54	55.89	59.82
interferon regulatory factor 8	Irf8	100770390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon regulatory factor 9	Irf9	100760392	7.90	8.77	7.86	8.53	7.80	8.01	485.35	517.91	470.75	527.31	469.88	491.64
immunoresponsive 1 homolog (mouse)	Irg1	100764165	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
insulin receptor substrate 1	Irs1	100755710	6.68	6.63	6.99	6.43	4.60	4.59	935.75	944.31	1007.33	949.16	689.30	700.07
insulin receptor substrate 2	Irs2	100771848	8.20	8.51	5.34	4.63	4.93	4.92	1146.14	1183.14	741.53	635.09	667.57	672.96
insulin receptor substrate 4	Irs4	100773159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iroquois homeobox 1	Irx1	100750610	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
iroquois homeobox 3	Irx3	100773584	9.46	9.43	15.42	11.24	8.78	7.92	413.19	401.70	660.79	487.91	401.57	356.11
iroquois homeobox 4	Irx4	100770031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iroquois homeobox 5	Irx5	100773873	2.27	2.27	2.56	1.77	2.63	1.65	105.58	113.46	120.48	84.60	125.23	78.51
iroquois homeobox 6	Irx6	100774452	0.11	0.08	0.13	0.04	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00
iron-sulfur cluster assembly 2	Isca2	100771623	15.38	18.53	18.41	16.40	20.35	19.04	339.51	404.44	399.95	349.99	430.55	429.01
iron-sulfur cluster assembly enzyme	Iscu	100773802	38.22	37.99	41.23	41.00	33.55	34.33	1149.18	1172.16	1247.06	1215.71	1006.01	1014.12
ISG15 ubiquitin-like modifier	Isg15	100772582	1.26	1.40	1.67	0.83	0.80	1.15	40.26	44.84	45.96	28.97	35.19	30.84
interferon stimulated exonuclease gene 20kDa	Isg20	100765291	0.31	0.37	0.33	0.26	0.42	0.42	8.35	9.15	8.69	5.79	12.42	11.22
interferon stimulated exonuclease gene 20kDa-like 2	Isg20l2	100752909	40.47	42.66	44.18	47.33	50.69	46.38	3116.39	3275.82	3418.22	3635.53	3870.85	3572.31
ISL LIM homeobox 1	Isl1	100774367	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
ISL LIM homeobox 2	Isl2	100764443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin superfamily containing leucine-rich repeat	Islr	100752905	0.06	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	1.16	0.00	0.00
immunoglobulin superfamily containing leucine-rich repeat 2	Islr2	100757313	0.04	0.01	0.06	0.06	0.00	0.00	3.04	0.92	3.73	4.64	0.00	0.00
isthmin 1, angiogenesis inhibitor	Ism1	100770831	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
isthmin 2	Ism2	100763293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
isochorismatase domain containing 1	Isoc1	100773735	6.80	7.06	6.04	6.41	7.00	6.60	639.53	672.55	572.60	606.12	652.04	621.56
isochorismatase domain containing 2	Isoc2	100774695	1.50	1.20	1.23	0.78	0.69	1.24	44.05	37.52	32.29	24.34	22.77	32.71
isoprenoid synthase domain containing	Ispd	100759830	0.67	0.46	1.06	0.87	0.75	0.77	53.93	42.09	79.49	69.54	61.06	61.69

increased sodium tolerance 1 homolog (yeast)	Ist1	100756334	38.01	37.28	36.80	36.45	38.04	39.32	1759.09	1749.54	1733.95	1625.96	1606.30	1642.21
intestine-specific homeobox	Isx	100756409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inositol-3-phosphate synthase 1	Isyna1	100767831	42.48	38.64	35.12	27.05	16.32	18.48	1734.79	1581.18	1411.01	1065.05	652.04	729.98
itchy E3 ubiquitin protein ligase	Itch	100751263	22.29	23.43	22.13	26.29	27.85	25.68	3468.82	3688.50	3497.72	4114.17	4298.30	4050.86
integrin alpha FG-GAP repeat containing 1	Itfg1	100755490	42.94	44.29	55.10	59.13	65.65	65.26	3698.20	3874.25	4788.24	5101.57	5633.43	5500.53
integrin alpha FG-GAP repeat containing 2	Itfg2	100768769	13.44	13.52	12.55	10.85	9.16	9.24	884.86	898.56	886.85	779.95	629.27	658.94
integrin alpha FG-GAP repeat containing 3	Itfg3	100771773	34.55	33.49	39.92	39.36	31.30	33.28	2947.01	2848.50	3443.06	3355.07	2682.68	2840.46
integrin, alpha 1	Itga1	100750393	1.42	1.55	1.54	1.96	2.12	2.02	325.08	355.95	363.93	457.77	489.55	455.18
integrin, alpha 10	Itga10	100754198	0.05	0.00	0.02	0.02	0.03	0.00	7.60	3.66	3.73	11.59	8.28	3.74
integrin, alpha 11	Itga11	100761554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	Itga2	100774579	0.01	0.03	0.00	0.00	0.00	0.01	4.56	5.49	4.97	3.48	6.21	9.35
integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)	Itga2b	100762814	1.92	1.88	2.13	1.32	1.05	1.11	195.20	203.14	197.49	128.64	94.18	107.49
integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	Itga3	100758471	28.16	27.64	22.61	19.61	17.54	17.99	3858.46	3812.03	3127.57	2711.87	2430.15	2515.20
integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	Itga4	100762323	0.00	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	1.03	0.00
integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	Itga5	100768174	51.33	50.64	62.50	60.34	45.43	50.96	6783.44	6763.01	8382.84	7958.30	6079.51	6726.82
integrin, alpha 6	Itga6	100769534	0.02	0.01	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
integrin, alpha 7	Itga7	100773038	2.07	1.99	0.97	0.92	0.98	1.00	269.64	256.21	137.87	122.85	137.65	128.98
integrin, alpha 8	Itga8	100769007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integrin, alpha 9	Itga9	100754465	0.32	0.36	0.03	0.02	0.05	0.06	48.61	53.99	3.73	2.32	7.24	11.22
integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)	Itgae	100772578	0.09	0.11	0.11	0.06	0.05	0.07	17.47	18.30	18.63	20.86	13.45	14.95
integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	Itgal	100770691	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	2.32	1.03	0.00
integrin, alpha M (complement component 3 receptor 3 subunit)	Itgam	100758889	0.01	0.03	0.01	0.01	0.00	0.00	0.76	2.75	1.24	1.16	0.00	0.00
integrin, alpha V	Itgav	100752313	23.13	22.65	24.51	26.36	29.07	28.28	4510.14	4476.34	4859.04	5150.24	5672.76	5464.08
integrin, alpha X (complement component 3 receptor 4 subunit)	Itgax	100757452	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	Itgb1	100763033	387.02	390.59	375.22	395.12	459.17	460.43	37585.04	38460.69	36955.81	38615.21	45163.70	44890.32
integrin beta 1 binding protein 1	Itgb1bp 1	100759099	41.57	41.18	45.25	47.04	50.18	51.46	1175.01	1164.84	1252.02	1310.74	1404.48	1430.04
integrin beta 1 binding protein (melusin) 2	Itgb1bp 2	100753749	0.03	0.10	0.00	0.00	0.00	0.00	5.32	6.41	6.21	1.16	7.24	7.48
integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	Itgb2	100756135	0.02	0.03	0.02	0.02	0.02	0.03	0.76	0.00	0.00	0.00	0.00	0.93
integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	Itgb3	100775048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93

integrin beta 3 binding protein (beta3-endonexin)	Itgb3bp	100757281	3.07	3.23	4.24	4.39	6.30	5.39	156.47	161.96	226.06	222.51	242.19	234.60
integrin, beta 4	Itgb4	100756849	3.67	3.66	5.40	4.41	3.35	3.53	819.54	826.28	1252.02	994.35	745.19	799.14
integrin, beta 5	Itgb5	100765378	123.76	121.92	139.58	137.99	129.78	138.69	10581.90	10473.47	12038.31	11794.33	11069.18	11867.50
integrin, beta 6	Itgb6	100768511	0.04	0.05	0.02	0.02	0.04	0.07	4.56	3.66	1.24	1.16	2.07	3.74
integrin, beta 7	Itgb7	100770075	0.10	0.01	0.00	0.00	0.05	0.01	4.56	0.92	1.24	0.00	1.03	1.87
integrin, beta 8	Itgb8	100769713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integrin, beta-like 1 (with EGF-like repeat domains)	Itgbl1	100761751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inter-alpha-trypsin inhibitor heavy chain 1	Itih1	100761604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inter-alpha-trypsin inhibitor heavy chain 2	Itih2	100761405	0.00	0.01	0.02	0.03	0.00	0.01	0.00	0.92	1.24	2.32	0.00	0.93
inter-alpha-trypsin inhibitor heavy chain 3	Itih3	100761315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inter-alpha-trypsin inhibitor heavy chain family, member 4	Itih4	100753872	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	2.32	0.00	0.00
inter-alpha-trypsin inhibitor heavy chain family, member 5	Itih5	100761693	13.22	13.03	16.89	17.86	16.71	16.86	2295.33	2253.73	2949.96	3094.32	2887.61	2946.08
inter-alpha-trypsin inhibitor heavy chain family, member 6	Itih6	100755168	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
IL2-inducible T-cell kinase	Itk	100770087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integral membrane protein 2A	Itm2a	100755879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integral membrane protein 2B	Itm2b	100751459	40.55	40.94	37.97	39.44	40.96	40.45	1831.25	1826.41	1706.63	1747.65	1820.54	1808.59
integral membrane protein 2C	Itm2c	100750451	263.89	253.16	284.43	260.00	226.49	253.51	11261.69	10874.26	12148.85	11109.41	9219.66	10423.44
inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	Itpa	100768122	82.11	77.61	86.88	80.01	75.83	80.16	2588.51	2462.36	2715.20	2503.27	2338.03	2506.78
inositol-tetrakisphosphate 1-kinase	Itpk1	100768438	7.89	6.96	8.95	7.59	5.86	6.42	639.53	558.17	721.65	603.80	468.85	522.48
inositol-trisphosphate 3-kinase A	Itpka	100772914	4.19	3.69	6.64	4.92	4.31	3.45	164.82	137.26	258.35	194.70	165.60	135.53
inositol-trisphosphate 3-kinase B	Itpkb	100774983	2.43	2.33	3.25	3.48	2.37	2.85	272.67	258.95	360.21	398.67	279.45	322.46
inositol-trisphosphate 3-kinase C	Itpkc	100770355	1.91	1.96	1.66	1.64	0.78	1.10	123.05	121.70	110.55	106.62	55.89	66.36
inositol 1,4,5-trisphosphate receptor, type 1	Itpr1	100764450	8.20	8.12	9.46	10.43	9.96	9.56	2361.41	2342.49	2727.62	2967.99	2840.00	2734.84
inositol 1,4,5-trisphosphate receptor, type 2	Itpr2	100758965	9.35	9.49	11.55	11.72	11.10	10.59	3228.04	3274.91	3997.04	4000.59	3811.85	3648.02
inositol 1,4,5-trisphosphate receptor, type 3	Itpr3	100751775	6.94	6.76	7.45	6.30	5.05	5.39	1939.10	1912.42	2143.84	1806.76	1474.86	1506.69
inositol 1,4,5-trisphosphate receptor interacting protein	Itprip	100762684	8.15	8.01	8.15	8.26	7.49	8.01	871.95	853.73	880.64	883.10	795.90	861.77
inositol 1,4,5-trisphosphate receptor interacting protein-like 1	Itpripl1	100759110	9.25	9.46	9.84	9.44	8.29	8.41	638.77	655.16	686.87	664.06	585.80	598.19
inositol 1,4,5-trisphosphate receptor interacting protein-like 2	Itpripl2	100756036	15.20	15.00	15.65	16.70	15.96	16.58	2633.32	2602.36	2737.56	2903.09	2746.85	2899.35
intersectin 1 (SH3 domain protein)	Itsn1	100758619	13.16	13.45	13.57	14.60	13.91	14.81	1553.26	1531.77	1665.64	1734.90	1682.89	1795.50
intersectin 2	Itsn2	100754648	19.42	18.41	15.90	19.45	20.67	18.96	3712.63	3588.76	3096.52	3740.99	3955.72	3621.85
isovaleryl-CoA dehydrogenase	Ivd	100759847	37.20	35.10	35.82	35.18	32.96	37.03	1688.46	1597.65	1642.04	1546.00	1411.72	1564.64
involucrin	Ivl	100761237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
influenza virus NS1A binding protein	Ivns1abp	100753413	105.55	105.45	111.46	128.96	145.32	143.32	9516.27	9592.30	10223.62	11695.82	13162.96	12874.14
IWS1 homolog (S. cerevisiae)	Iws1	100771981	8.87	9.29	9.64	11.33	9.93	9.46	729.92	758.56	791.21	925.98	810.39	775.78
iodotyrosine deiodinase	Iyd	100766759	0.18	0.16	0.00	0.00	0.00	0.00	6.84	7.32	0.00	0.00	0.00	0.00

izumo sperm-egg fusion 1	Izumo1	100752050	0.92	1.47	0.38	0.25	0.50	0.29	51.65	52.16	11.18	13.91	13.45	9.35
IZUMO family member 2	Izumo2	100770186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IZUMO family member 3	Izumo3	100761208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IZUMO family member 4	Izumo4	100759426	2.04	2.51	2.49	2.46	2.71	2.26	75.19	96.08	116.76	104.30	110.74	97.21
jade family PHD finger 1	Jade1	100772857	16.87	17.63	14.61	16.98	15.21	15.27	2782.95	2915.30	2445.67	2803.43	2495.35	2523.61
jade family PHD finger 2	Jade2	100758538	5.69	4.85	5.37	3.90	3.03	2.97	445.09	380.65	421.07	317.54	255.64	246.75
jade family PHD finger 3	Jade3	100774923	5.41	5.67	4.13	5.38	5.72	5.68	321.29	334.90	268.29	341.88	327.06	343.96
jagged 1	Jag1	100750525	1.44	1.42	2.05	2.06	1.91	1.63	217.23	216.86	301.83	308.27	292.90	249.56
jagged 2	Jag2	100753300	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
jagunal homolog 1 (Drosophila)	Jagn1	100756602	64.76	61.03	77.26	73.81	70.77	71.33	1634.53	1534.51	1896.67	1785.90	1693.24	1730.07
Janus kinase 1	Jak1	100754824	48.20	48.45	52.78	58.24	59.30	60.44	5619.07	5780.27	6402.96	6893.26	7045.15	7056.76
Janus kinase 2	Jak2	100769337	10.46	11.09	13.11	15.82	15.92	13.62	1485.66	1573.86	1878.04	2257.58	2251.10	1945.05
Janus kinase 3	Jak3	100773497	1.25	1.29	1.34	1.13	0.88	0.88	236.98	245.23	248.42	184.27	172.84	158.89
janus kinase and microtubule interacting protein 1	Jakmip1	100771253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
janus kinase and microtubule interacting protein 2	Jakmip2	100754908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Janus kinase and microtubule interacting protein 3	Jakmip3	100750449	0.02	0.00	0.00	0.00	0.04	0.01	4.56	0.00	0.00	0.00	3.10	0.93
junctional adhesion molecule 2	Jam2	100757794	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
junctional adhesion molecule 3	Jam3	100758045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
jumonji, AT rich interactive domain 2	Jarid2	100765016	1.79	1.80	1.16	1.31	1.12	1.32	262.04	261.70	172.65	199.33	162.49	204.69
JAZF zinc finger 1	Jazf1	100763585	0.07	0.00	0.00	0.00	0.00	0.08	1.52	0.00	0.00	0.00	3.10	0.93
Jun dimerization protein 2	Jdp2	100759902	29.96	31.81	27.89	23.81	18.38	20.58	1207.67	1280.13	1120.36	953.79	735.88	819.71
JNK1/MAPK8-associated membrane protein	Jkamp	100763824	17.39	15.71	15.77	16.71	19.73	18.35	798.28	724.71	735.32	767.20	882.84	826.25
jumonji domain containing 1C	Jmjd1c	100773596	21.20	19.67	18.67	24.33	24.94	22.40	5250.69	4895.43	4677.70	5997.41	6136.43	5533.24
jumonji domain containing 4	Jmjd4	100765049	3.28	3.31	3.50	3.84	4.06	4.00	388.88	388.89	416.10	448.50	468.85	486.03
jumonji domain containing 6	Jmjd6	100774658	58.78	59.57	64.96	56.24	45.20	45.05	2626.49	2635.30	2864.25	2459.23	1926.11	1985.24
jumonji domain containing 7	Jmjd7	100760377	22.17	21.57	24.61	21.31	17.80	20.30	813.47	797.91	921.63	803.13	670.67	737.45
jumonji domain containing 8	Jmjd8	100771483	13.33	13.20	13.79	12.86	10.64	11.12	384.33	365.10	375.11	351.15	308.43	301.90
junction mediating and regulatory protein, p53 cofactor	Jmy	100761093	17.20	17.27	19.10	20.23	20.54	21.89	1828.97	1847.45	2029.57	2142.84	2187.96	2361.91
Josephin domain containing 1	Josd1	100773825	18.47	17.91	17.90	19.31	18.69	19.20	1574.52	1529.94	1531.49	1642.19	1573.18	1631.00
Josephin domain containing 2	Josd2	100755892	31.26	28.99	28.76	15.83	7.76	7.62	650.93	588.37	581.30	319.86	168.70	166.37
junctophilin 1	Jph1	100765834	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
junctophilin 2	Jph2	100771806	0.13	0.09	0.04	0.05	0.05	0.04	12.91	9.15	3.73	5.79	5.17	3.74
junctophilin 3	Jph3	100755711	0.01	0.00	0.00	0.02	0.00	0.00	3.04	0.00	0.00	1.16	0.00	0.00
junctophilin 4	Jph4	100772444	0.02	0.00	0.00	0.00	0.00	0.01	1.52	0.00	0.00	0.00	0.00	0.93
Jrk homolog (mouse)	Jrk	100765280	5.60	5.21	4.78	4.67	3.37	4.04	508.89	475.82	453.36	428.80	318.78	379.48
JRK-like	Jrkl	100763189	10.35	10.37	11.07	10.86	11.52	10.43	874.23	877.52	943.99	917.86	966.68	885.13
junctional sarcoplasmic reticulum protein 1	Jsrp1	100760291	0.08	0.05	0.00	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	0.00
jumping translocation breakpoint	Jtb	100766005	87.47	87.60	100.70	97.67	93.04	95.33	2261.15	2258.30	2608.38	2482.41	2369.08	2455.38
jun proto-oncogene	Jun	100766306	29.79	32.40	25.19	18.90	14.69	13.42	1408.19	1508.89	1196.13	880.78	689.30	656.14
jun B proto-oncogene	Junb	100756141	22.06	22.04	12.98	6.28	5.41	4.17	695.74	680.78	402.44	191.22	167.67	128.98
junction plakoglobin	Jup	100760007	0.21	0.27	0.09	0.03	0.04	0.07	21.27	32.03	8.69	4.64	4.14	8.41
kidney associated antigen 1	Kaag1	103163943	1.16	1.28	0.88	0.85	0.59	0.54	19.75	13.73	9.94	11.59	7.24	6.54

kalirin, RhoGEF kinase	Kalrn	100757073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
KN motif and ankyrin repeat domains 1	Kank1	100759671	5.05	5.11	5.65	5.87	5.62	5.37	760.30	768.63	847.10	877.30	831.09	802.88
KN motif and ankyrin repeat domains 2	Kank2	100756045	8.91	9.27	8.02	6.42	5.86	6.39	1045.13	1076.99	953.92	755.62	710.00	781.38
KN motif and ankyrin repeat domains 3	Kank3	103160001	3.44	3.51	0.84	0.93	0.00	0.00	167.10	166.54	39.75	46.36	2.07	0.00
KN motif and ankyrin repeat domains 4	Kank4	100755240	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
KAT8 regulatory NSL complex subunit 1-like	Kansl1l	100761258	5.69	5.70	8.72	9.46	10.12	9.33	754.22	744.84	1136.51	1206.44	1299.94	1206.66
KAT8 regulatory NSL complex subunit 2	Kansl2	100758344	24.83	24.15	27.73	27.53	29.09	29.01	2603.70	2544.71	2921.39	2862.53	2989.04	3034.87
KAT8 regulatory NSL complex subunit 3	Kansl3	100770226	33.60	33.92	34.81	33.70	30.25	32.18	4153.16	4150.59	4372.15	4121.12	3818.06	4058.34
lysyl-tRNA synthetase	Kars	100766627	244.82	241.45	258.13	275.47	277.32	283.64	14328.71	14203.15	15107.50	15762.47	15835.29	16300.64
K(lysine) acetyltransferase 2A	Kat2a	100774478	38.40	35.90	28.88	27.22	19.68	20.85	3379.19	3161.44	2542.55	2371.15	1713.94	1800.17
K(lysine) acetyltransferase 2B	Kat2b	100772054	9.24	9.61	10.49	10.98	12.10	11.73	1140.83	1209.67	1299.22	1383.75	1483.14	1445.93
K(lysine) acetyltransferase 5	Kat5	100761603	26.91	27.58	29.09	29.43	25.45	27.73	1565.41	1615.03	1688.00	1676.96	1466.58	1583.33
K(lysine) acetyltransferase 6A	Kat6a	100751361	14.49	14.65	12.05	13.56	14.05	13.96	3827.32	3877.00	3213.28	3591.49	3703.18	3732.14
K(lysine) acetyltransferase 6B	Kat6b	100760447	7.23	7.29	6.49	7.44	8.08	7.91	1368.69	1396.34	1248.30	1412.72	1505.91	1487.99
K(lysine) acetyltransferase 7	Kat7	100757223	40.19	41.32	30.95	31.16	34.86	34.89	4080.24	4161.57	3116.40	3108.22	3444.43	3462.95
K(lysine) acetyltransferase 8	Kat8	100756283	19.12	18.99	18.47	19.85	20.84	20.31	911.45	877.52	860.77	898.16	951.15	940.28
katanin p60 (ATPase containing) subunit A 1	Katna1	100759022	75.22	74.52	77.73	82.97	92.27	84.90	3515.15	3502.75	3634.35	3808.21	4212.39	3901.31
katanin p60 subunit A-like 1	Katnal1	100755046	1.36	1.68	1.21	1.49	2.16	1.70	105.58	135.42	94.40	107.78	162.49	128.05
katanin p60 subunit A-like 2	Katnal2	100772637	0.26	0.19	0.00	0.04	0.10	0.09	16.71	13.73	0.00	4.64	7.24	6.54
katanin p80 (WD repeat containing) subunit B 1	Katnb1	100763993	18.90	17.90	20.98	17.68	11.25	14.74	1512.24	1485.10	1700.42	1442.86	933.56	1195.44
katanin p80 subunit B-like 1	Katnbl1	100772848	15.73	16.94	14.49	16.95	17.20	16.07	1261.59	1367.98	1168.80	1344.35	1366.18	1285.17
Kazal-type serine peptidase inhibitor domain 1	Kazald1	100750725	4.92	5.28	3.81	3.93	3.94	3.48	341.79	374.25	278.23	273.51	269.10	253.30
kelch repeat and BTB (POZ) domain containing 12	Kbtbd12	100766790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch repeat and BTB (POZ) domain containing 13	Kbtbd13	100754530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch repeat and BTB (POZ) domain containing 2	Kbtbd2	100768350	26.06	25.16	29.60	32.19	32.55	34.03	2378.12	2330.59	2737.56	2979.58	2981.80	3133.95
kelch repeat and BTB (POZ) domain containing 3	Kbtbd3	100755102	0.32	0.30	0.40	0.43	0.54	0.58	60.76	59.48	74.53	76.49	96.25	102.81
kelch repeat and BTB (POZ) domain containing 4	Kbtbd4	100760838	11.43	10.86	12.57	12.73	12.52	14.04	762.58	733.86	854.56	856.44	848.69	956.17
kelch repeat and BTB (POZ) domain containing 8	Kbtbd8	100751978	2.29	2.50	1.68	2.21	2.10	2.13	303.82	333.07	224.82	293.21	278.41	290.68
potassium channel modulatory factor 1	Kcmf1	100753827	42.45	44.95	46.71	44.78	42.41	40.22	3762.00	4033.47	4247.94	4024.93	3804.61	3615.30
potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)	Kcna1	100774150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

potassium voltage-gated channel, shaker-related subfamily, member 10	Kcna10	100759462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, member 2	Kcna2	100759751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, member 3	Kcna3	100760038	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, member 4	Kcna4	100764918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, member 5	Kcna5	100774436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, member 6	Kcna6	100773853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, member 7	Kcna7	100754146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
potassium voltage-gated channel, shaker-related subfamily, beta member 1	Kcnab1	100755538	0.20	0.17	0.09	0.08	0.17	0.10	18.23	16.47	9.94	11.59	15.52	9.35
potassium voltage-gated channel, shaker-related subfamily, beta member 2	Kcnab2	100765085	73.66	74.72	72.81	61.60	50.54	53.75	4551.16	4596.21	4565.91	3858.04	3286.08	3382.57
potassium voltage-gated channel, shaker-related subfamily, beta member 3	Kcnab3	100755337	0.22	0.18	0.06	0.14	0.18	0.11	15.95	16.47	6.21	9.27	9.31	12.15
potassium voltage-gated channel, Shab-related subfamily, member 1	Kcnb1	100759046	0.00	0.02	0.00	0.02	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shab-related subfamily, member 2	Kcnb2	100764283	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shaw-related subfamily, member 1	Kcnc1	100763523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shaw-related subfamily, member 2	Kcnc2	100759610	0.02	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shaw-related subfamily, member 3	Kcnc3	100773356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shaw-related subfamily, member 4	Kcnc4	100761530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shal-related subfamily, member 1	Kcnd1	100761662	0.01	0.02	0.00	0.02	0.00	0.00	0.76	0.92	0.00	1.16	1.03	0.00
potassium voltage-gated channel, Shal-related subfamily, member 2	Kcnd2	100767012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Shal-related subfamily, member 3	Kcnd3	100764602	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Isk-related family, member 1	Kcne1	100760439	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
potassium voltage-gated channel, Isk-related family, member 2	Kcne2	100759561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Isk-related family, member 3	Kcne3	100755499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, Isk-related family, member 4	Kcne4	100773476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily F, member 1	Kcnf1	100766980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily G, member 1	Kcng1	100758175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily G, member 2	Kcng2	100763959	1.41	1.29	1.62	1.80	1.65	2.17	85.83	79.61	88.19	91.55	75.55	99.07

potassium voltage-gated channel, subfamily G, member 3	Kcng3	100765018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily G, member 4	Kcng4	100773553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 1	Kcnh1	100764830	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 2	Kcnh2	100770245	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 3	Kcnh3	100762492	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.92	2.48	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 4	Kcnh4	100775053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 5	Kcnh5	100767166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 6	Kcnh6	100773317	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 7	Kcnh7	100764883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, subfamily H (eag-related), member 8	Kcnh8	100773504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kv channel interacting protein 1	Kcnip1	100765158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kv channel interacting protein 2	Kcnip2	100753351	0.13	0.12	0.27	0.18	0.21	0.22	15.19	19.22	28.57	23.18	21.73	21.50
Kv channel interacting protein 3, calsenilin	Kcnip3	100774362	1.37	1.62	1.32	1.16	1.07	1.23	120.01	147.32	115.51	112.42	97.29	104.68
potassium inwardly-rectifying channel, subfamily J, member 1	Kcnj1	100766584	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 10	Kcnj10	100764542	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 11	Kcnj11	100764690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 12	Kcnj12	100773954	0.00	0.02	0.00	0.03	0.02	0.00	0.00	5.49	1.24	2.32	1.03	0.00
potassium inwardly-rectifying channel, subfamily J, member 13	Kcnj13	100774709	0.05	0.08	0.07	0.03	0.00	0.03	0.76	2.75	3.73	1.16	0.00	0.93
potassium inwardly-rectifying channel, subfamily J, member 14	Kcnj14	100775100	1.00	0.61	1.13	1.11	1.14	1.06	54.69	38.43	58.38	61.42	65.20	61.69
potassium inwardly-rectifying channel, subfamily J, member 15	Kcnj15	100763028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 16	Kcnj16	100754748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 2	Kcnj2	100754461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 3	Kcnj3	100768536	0.02	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
potassium inwardly-rectifying channel, subfamily J, member 4	Kcnj4	100766934	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 5	Kcnj5	100766874	0.05	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 6	Kcnj6	100763599	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 8	Kcnj8	100770058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium inwardly-rectifying channel, subfamily J, member 9	Kcnj9	100764245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

potassium channel, subfamily K, member 1	Kcnk1	100762483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 10	Kcnk10	100750735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 12	Kcnk12	100770804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 13	Kcnk13	100769761	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
potassium channel, subfamily K, member 15	Kcnk15	100756837	0.02	0.06	0.08	0.06	0.02	0.01	1.52	4.58	3.73	3.48	1.03	0.93
potassium channel, subfamily K, member 16	Kcnk16	100760808	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 17	Kcnk17	100770528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 18	Kcnk18	100774565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 2	Kcnk2	100751502	0.03	0.03	0.00	0.10	0.00	0.04	0.76	1.83	0.00	2.32	0.00	0.93
potassium channel, subfamily K, member 3	Kcnk3	100771641	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 4	Kcnk4	100760723	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 5	Kcnk5	100760223	2.23	2.27	1.89	1.69	1.44	1.63	230.14	235.16	188.80	177.31	144.90	167.31
potassium channel, subfamily K, member 6	Kcnk6	100764262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 7	Kcnk7	100763826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily K, member 9	Kcnk9	100756282	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
potassium large conductance calcium-activated channel, subfamily M, alpha member 1	Kcnma1	100764731	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium large conductance calcium-activated channel, subfamily M, beta member 1	Kcnmb1	100765448	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium large conductance calcium-activated channel, subfamily M, beta member 2	Kcnmb2	100761612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium large conductance calcium-activated channel, subfamily M beta member 3	Kcnmb3	100758210	0.10	0.06	0.17	0.08	0.12	0.24	8.35	10.98	11.18	5.79	6.21	12.15
potassium large conductance calcium-activated channel, subfamily M, beta member 4	Kcnmb4	100754855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	Kcnn1	100772046	0.01	0.04	0.07	0.01	0.01	0.03	3.80	10.07	11.18	8.11	5.17	6.54
potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	Kcnn3	100760285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4	Kcnn4	100768359	4.18	4.00	1.23	1.59	1.31	0.83	96.46	91.50	29.81	33.61	26.91	16.82

potassium voltage-gated channel, KQT-like subfamily, member 1	Kcnq1	100761481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, KQT-like subfamily, member 2	Kcnq2	100766596	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel, KQT-like subfamily, member 4	Kcnq4	100757113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
potassium voltage-gated channel, KQT-like subfamily, member 5	Kcnq5	100773342	6.84	7.06	7.17	8.15	7.60	7.20	745.87	781.44	807.36	914.39	859.04	795.40
potassium channel regulator	Kcnrg	100753429	0.47	0.77	0.42	0.79	0.53	0.63	17.47	17.39	16.15	22.02	19.66	26.17
potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1	Kcns1	100762339	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
potassium voltage-gated channel, delayed-rectifier, subfamily S, member 2	Kcns2	100755567	0.00	0.06	0.04	0.04	0.03	0.00	0.00	1.83	1.24	1.16	1.03	0.00
potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3	Kcns3	100755672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel, subfamily T, member 1	Kcnt1	100758898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
potassium channel, subfamily T, member 2	Kcnt2	100768557	0.01	0.00	0.03	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.00
potassium channel, subfamily U, member 1	Kcnu1	100752893	0.03	0.02	0.00	0.08	0.04	0.02	7.60	2.75	2.48	9.27	5.17	2.80
potassium channel, subfamily V, member 2	Kcnv2	100757476	0.00	0.02	0.06	0.00	0.02	0.00	0.00	1.83	2.48	0.00	2.07	0.00
kielin/chordin-like protein	Kcp	100761131	0.27	0.21	0.18	0.08	0.07	0.09	41.77	36.60	27.33	18.54	14.49	16.82
potassium channel tetramerization domain containing 1	Kctd1	100770054	3.91	3.64	4.63	4.50	4.99	4.90	113.93	109.80	127.93	130.96	146.97	145.81
potassium channel tetramerization domain containing 10	Kctd10	100752520	17.08	16.83	17.09	16.93	14.38	15.22	1623.89	1626.01	1642.04	1583.08	1345.48	1429.11
potassium channel tetramerization domain containing 11	Kctd11	100760546	3.03	3.05	3.12	2.95	2.74	2.84	230.14	235.16	240.96	221.35	202.86	214.97
potassium channel tetramerization domain containing 12	Kctd12	100753862	2.63	2.68	3.14	3.18	3.76	4.25	178.49	174.77	217.37	215.56	258.75	277.60
potassium channel tetramerization domain containing 13	Kctd13	100753748	18.83	17.79	19.30	20.83	15.18	15.63	897.78	868.37	916.66	986.24	734.84	749.61
potassium channel tetramerization domain containing 14	Kctd14	100768863	5.73	5.20	5.77	6.15	4.16	5.39	182.29	165.62	183.83	192.38	132.48	171.98
potassium channel tetramerization domain containing 15	Kctd15	100765553	10.40	8.44	11.09	5.14	5.48	7.19	275.71	236.08	301.83	142.55	145.93	187.87
potassium channel tetramerization domain containing 16	Kctd16	100755887	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	1.16	1.03	0.00
potassium channel tetramerization domain containing 17	Kctd17	100763063	11.85	11.33	14.49	10.83	8.41	12.23	745.11	707.32	929.08	686.08	521.63	648.66
potassium channel tetramerization domain containing 18	Kctd18	100751064	7.15	6.95	7.99	8.66	9.12	8.89	587.12	573.73	675.70	718.53	750.37	740.26
potassium channel tetramerization domain containing 19	Kctd19	100761191	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.93
potassium channel tetramerization domain containing 2	Kctd2	100757654	5.09	4.41	5.75	4.67	4.18	4.46	530.92	470.33	609.86	497.18	442.97	471.07
potassium channel tetramerization domain containing 20	Kctd20	100752436	33.06	32.27	39.30	39.45	36.27	39.30	3818.96	3717.78	4573.36	4562.67	4169.96	4541.56
potassium channel tetramerization domain containing 21	Kctd21	100765855	1.79	1.78	2.27	1.84	2.38	2.13	151.91	150.98	195.01	159.93	203.89	180.39

potassium channel tetramerization domain containing 3	Kctd3	100760825	15.85	16.55	17.09	17.66	15.66	16.90	1832.01	1935.30	1989.82	2051.29	1811.23	1952.52
potassium channel tetramerization domain containing 4	Kctd4	100768043	0.00	0.00	0.00	0.00	0.06	0.00	0.76	0.00	0.00	0.00	1.03	0.00
potassium channel tetramerization domain containing 5	Kctd5	100772768	45.13	44.69	48.10	43.26	42.06	44.95	3013.85	2994.90	3230.67	2874.12	2804.81	3003.09
potassium channel tetramerization domain containing 6	Kctd6	100765751	4.73	4.04	4.76	4.90	5.48	4.86	205.84	179.35	212.40	227.15	239.08	220.58
potassium channel tetramerization domain containing 7	Kctd7	100757850	11.74	12.47	13.81	14.09	16.84	17.44	1260.08	1324.05	1505.41	1447.49	1760.51	1823.54
potassium channel tetramerization domain containing 8	Kctd8	100754636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium channel tetramerization domain containing 9	Kctd9	100753176	23.71	22.42	18.25	20.32	21.84	21.75	2058.35	1970.07	1609.74	1785.90	1929.21	1905.79
KDEL (Lys-Asp-Glu-Leu) containing 1	Kdelc1	100763723	20.58	22.13	24.80	24.48	25.81	26.07	1265.39	1381.70	1538.95	1528.62	1613.54	1608.57
KDEL (Lys-Asp-Glu-Leu) containing 2	Kdelc2	100753631	50.51	50.76	62.50	68.33	74.21	70.92	6050.49	6099.61	7535.74	8205.15	8822.22	8503.62
KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1	Kdelr1	100750912	20.49	19.05	19.68	19.40	22.14	19.99	638.77	629.54	696.81	711.58	726.56	757.08
KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	Kdelr2	100765889	59.96	62.44	66.16	65.88	69.35	69.48	2657.63	2778.96	2942.50	2936.70	3089.43	3093.76
KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	Kdelr3	100750636	41.86	41.24	44.04	43.85	41.09	39.35	2006.70	1918.83	2127.69	2135.89	2003.73	2043.19
lysine (K)-specific demethylase 1A	Kdm1a	100770721	42.06	40.48	40.93	45.47	46.88	45.02	3779.47	3632.68	3690.24	4024.93	4131.67	4007.86
lysine (K)-specific demethylase 1B	Kdm1b	100767337	10.65	10.89	10.43	10.99	13.18	11.84	1347.42	1377.13	1315.37	1388.39	1651.84	1485.19
lysine (K)-specific demethylase 2A	Kdm2a	100763039	22.46	22.28	24.12	24.14	22.09	22.89	3310.07	3343.53	3650.49	3622.78	3405.10	3484.45
lysine (K)-specific demethylase 2B	Kdm2b	100767158	8.25	7.53	8.54	8.70	7.91	8.53	1276.03	1191.37	1355.12	1374.48	1237.84	1338.45
lysine (K)-specific demethylase 3A	Kdm3a	100771108	5.53	6.00	4.48	4.81	5.46	4.90	770.17	829.02	619.80	659.43	746.23	686.05
lysine (K)-specific demethylase 3B	Kdm3b	100752012	8.85	9.00	9.54	9.42	9.35	9.77	1332.99	1378.04	1460.69	1439.38	1435.53	1478.65
lysine (K)-specific demethylase 4A	Kdm4a	100756054	55.83	54.20	56.09	51.32	50.97	53.96	6171.26	6072.16	6358.24	5766.79	5706.91	5956.65
lysine (K)-specific demethylase 4B	Kdm4b	100770247	5.39	5.27	5.14	4.30	2.69	2.98	964.61	961.70	943.99	786.91	480.23	532.76
lysine (K)-specific demethylase 4C	Kdm4c	100771667	8.25	8.17	6.90	8.44	9.49	9.41	990.44	1000.13	835.92	1015.21	1121.93	1129.08
lysine (K)-specific demethylase 4D	Kdm4d	100753944	0.07	0.10	0.03	0.11	0.09	0.13	3.04	4.58	1.24	4.64	3.10	6.54
lysine (K)-specific demethylase 5A	Kdm5a	100757111	13.40	13.53	14.33	16.39	16.07	16.21	2367.48	2401.96	2546.28	2927.43	2846.21	2832.98
lysine (K)-specific demethylase 5B	Kdm5b	100761435	10.94	11.25	9.85	10.22	9.58	9.69	2198.87	2266.54	1993.55	2055.92	1913.69	1955.33
lysine (K)-specific demethylase 5C	Kdm5c	100758549	46.08	45.00	26.33	24.78	21.82	22.64	8841.04	8667.20	5092.56	4717.96	4187.55	4338.74
lysine (K)-specific demethylase 6A	Kdm6a	100758834	12.56	12.48	7.05	8.10	7.94	7.76	1815.30	1839.22	1034.66	1179.78	1139.52	1137.49
lysine (K)-specific demethylase 6B	Kdm6b	100756212	7.68	7.31	6.37	5.90	4.40	5.23	630.42	588.37	537.82	491.38	365.35	430.88
lysine (K)-specific demethylase 7A	Kdm7a	100773228	2.93	2.78	2.12	2.43	2.78	2.48	774.73	751.24	567.63	654.79	730.70	660.81
lysine (K)-specific demethylase 8	Kdm8	100762777	10.43	8.83	9.65	9.50	6.89	7.97	452.69	392.55	412.37	420.69	281.52	339.29
kinase insert domain receptor (a type III receptor tyrosine kinase)	Kdr	100756294	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-ketodihydrosphingosine reductase	Kdsr	100774578	4.08	4.26	4.76	4.84	5.62	5.49	653.96	690.85	766.37	776.48	890.09	890.74
kelch-like ECH-associated protein 1	Keap1	100759410	12.18	10.75	13.82	13.20	11.52	12.00	1100.57	978.17	1255.75	1201.80	1032.92	1090.76
Kell blood group, metallo-endopeptidase	Kel	100758474	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
keratocan	Kera	100755565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

KH domain containing 3-like, subcortical maternal complex member	Khdc3l	103164222	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
KH domain containing, RNA binding, signal transduction associated 1	Khdrbs1	100754970	73.00	79.31	75.84	72.90	76.51	76.03	5525.65	6043.80	5815.45	5510.66	5808.34	5730.46
KH domain containing, RNA binding, signal transduction associated 2	Khdrbs2	100774778	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
ketohexokinase (fructokinase)	Khk	100763359	6.29	6.26	6.62	6.21	3.94	5.56	236.98	228.76	249.66	230.63	159.39	218.71
KH and NYN domain containing	Khnyn	100756338	5.38	5.46	7.65	6.29	5.21	5.62	418.51	420.92	592.48	518.04	410.89	459.86
KH-type splicing regulatory protein	Khsrp	100774871	65.02	62.58	54.94	43.33	36.57	38.18	7153.34	7039.35	6188.08	4868.62	4076.81	4236.86
KIAA0020 ortholog	Kiaa0020	100764311	73.46	70.95	64.69	68.58	69.83	65.13	4638.51	4581.57	4190.80	4354.06	4401.80	4083.57
KIAA0040 ortholog	Kiaa0040	100753399	15.36	14.92	12.46	13.50	15.38	13.78	806.63	777.78	690.60	715.05	774.17	750.54
KIAA0100 ortholog	Kiaa0100	100761624	240.90	238.60	237.36	254.09	251.86	265.97	22404.13	22583.03	22564.99	23786.83	23236.48	24855.67
KIAA0101 ortholog	Kiaa0101	100755621	50.93	55.36	39.88	41.01	43.97	40.32	1146.14	1247.19	885.61	908.59	997.73	901.96
KIAA0141 ortholog	Kiaa0141	100774899	23.47	23.92	19.04	19.03	17.09	18.36	1621.62	1642.49	1320.34	1303.78	1129.17	1215.07
KIAA0195 ortholog	Kiaa0195	100769338	6.03	5.47	6.60	5.52	3.94	4.53	937.27	858.30	1006.09	848.33	619.96	715.02
KIAA0196 ortholog	Kiaa0196	103158844	206.90	208.65	169.61	162.80	168.41	170.18	2907.52	2952.81	2327.67	2197.31	2246.96	2275.92
KIAA0226 ortholog	Kiaa0226	100754353	10.69	10.47	13.23	13.40	13.30	13.42	1696.05	1678.17	2158.75	2168.34	2121.72	2163.76
KIAA0226-like ortholog	Kiaa0226l	100760044	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
KIAA0232 ortholog	Kiaa0232	100769248	4.06	4.14	3.79	4.28	4.61	4.66	796.00	816.21	746.49	854.12	896.30	922.52
KIAA0247 ortholog	Kiaa0247	100757573	23.44	21.33	17.53	17.02	15.58	17.94	2438.12	2267.45	1895.42	1813.71	1650.80	1908.60
KIAA0319 ortholog	Kiaa0319	100759222	0.00	0.02	0.00	0.01	0.02	0.01	0.76	2.75	0.00	1.16	2.07	0.93
KIAA0319-like ortholog	Kiaa0319l	100766589	20.28	19.05	20.61	20.24	17.82	19.15	2644.72	2533.73	2728.86	2622.64	2348.38	2469.40
KIAA0355 ortholog	Kiaa0355	100764974	0.05	0.04	0.00	0.00	0.00	0.01	5.32	3.66	0.00	0.00	1.03	0.93
KIAA0368 ortholog	Kiaa0368	100757449	43.52	44.32	44.27	50.66	50.18	48.17	7653.88	7817.13	7827.63	8814.74	8709.41	8423.24
KIAA0391 ortholog	Kiaa0391	100757198	25.26	22.89	25.17	26.28	25.71	26.78	454.96	397.12	433.49	491.38	491.62	485.09
KIAA0408 ortholog	Kiaa0408	100765589	0.03	0.03	0.00	0.00	0.00	0.00	3.80	1.83	0.00	0.00	0.00	0.00
KIAA0430 ortholog	Kiaa0430	100771777	7.34	7.70	8.02	8.86	10.45	10.17	1614.78	1711.11	1793.57	1938.87	2305.95	2249.75
KIAA0513 ortholog	Kiaa0513	100771533	2.17	1.95	1.89	2.05	1.71	1.95	151.15	145.49	127.93	106.62	105.57	113.10
KIAA0556 ortholog	Kiaa0556	100763995	4.70	4.61	5.73	5.24	5.55	5.49	773.21	769.54	950.20	877.30	919.07	901.96
KIAA0586 ortholog	Kiaa0586	100753699	4.53	4.29	7.16	6.27	7.18	5.73	530.16	525.23	603.65	680.29	736.91	674.83
KIAA0753 ortholog	Kiaa0753	100755478	2.21	2.04	1.98	2.51	2.64	2.80	282.55	255.29	268.29	310.59	315.67	343.02

KIAA0825 ortholog	Kiaa0825	100754810	2.42	2.33	2.76	3.15	3.77	3.70	297.74	278.17	329.15	354.63	421.24	429.01
KIAA0895 ortholog	Kiaa0895	100768942	2.41	2.68	2.61	2.90	3.59	2.93	148.11	169.28	162.71	172.68	225.63	183.20
KIAA0895-like ortholog	Kiaa0895l	100759739	3.21	2.93	2.92	2.41	3.08	3.55	271.92	244.31	238.48	199.33	269.10	290.68
KIAA0907 ortholog	Kiaa0907	100764357	26.76	27.61	28.69	29.55	30.82	31.37	2020.37	2101.83	2230.79	2208.90	2334.93	2401.17
KIAA0922 ortholog	Kiaa0922	100771764	5.94	6.29	6.79	7.52	7.45	7.43	985.12	1077.91	1148.93	1258.59	1260.61	1231.89
KIAA0930 ortholog	Kiaa0930	100759763	16.28	16.82	16.44	13.57	8.80	10.28	1120.32	1184.97	1150.17	944.52	611.68	720.63
KIAA0947 ortholog	Kiaa0947	100758843	15.45	15.68	15.94	15.83	15.71	16.63	3710.35	3801.05	3847.99	3775.76	3795.29	4019.08
KIAA1024 ortholog	Kiaa1024	100758044	2.36	2.25	1.44	1.56	1.92	1.76	520.28	493.20	320.46	349.99	418.13	386.95
KIAA1024-like ortholog	Kiaa1024l	100772872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KIAA1033 ortholog	Kiaa1033	100772083	7.19	6.84	6.52	7.54	9.26	8.75	1238.05	1200.52	1155.14	1324.65	1631.14	1502.95
KIAA1045 ortholog	Kiaa1045	100770157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KIAA1107 ortholog	Kiaa1107	100769097	3.04	3.06	3.00	3.55	3.61	3.21	518.77	509.67	511.74	602.64	597.19	538.37
KIAA1109 ortholog	Kiaa1109	100756071	12.49	11.63	11.61	14.39	16.04	14.93	1510.72	1393.60	1413.49	1749.97	1933.35	1781.48
KIAA1143 ortholog	Kiaa1143	100764346	9.69	11.28	12.33	13.02	16.71	12.07	216.47	271.76	295.62	327.97	431.59	321.53
KIAA1147 ortholog	Kiaa1147	100750485	7.27	7.52	7.30	7.34	7.25	7.40	1357.30	1410.07	1376.23	1376.80	1349.62	1390.79
KIAA1161 ortholog	Kiaa1161	103164296	1.20	1.60	1.06	1.08	0.97	1.09	37.22	51.24	32.29	35.93	32.08	38.32
KIAA1191 ortholog	Kiaa1191	100751525	28.10	27.56	29.60	29.52	29.05	30.22	1807.70	1780.66	1928.96	1862.38	1802.95	1902.05
KIAA1210 ortholog	Kiaa1210	103159675	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
KIAA1211 ortholog	Kiaa1211	100770019	0.04	0.03	0.01	0.00	0.00	0.01	5.32	2.75	1.24	1.16	0.00	0.93
KIAA1211-like ortholog	Kiaa1211l	100764496	0.02	0.05	0.02	0.01	0.01	0.02	3.04	8.24	2.48	2.32	1.03	1.87
KIAA1217 ortholog	Kiaa1217	100767111	0.01	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
KIAA1244 ortholog	Kiaa1244	100771638	0.00	0.00	0.00	0.00	0.00	0.01	0.76	0.00	0.00	0.00	0.00	1.87
KIAA1279 ortholog	Kiaa1279	100770903	16.74	18.86	17.77	20.17	21.97	22.27	1152.22	1301.18	1235.88	1381.43	1503.84	1530.99
KIAA1324 ortholog	Kiaa1324	100761426	0.05	0.06	0.06	0.02	0.00	0.00	6.08	2.75	3.73	1.16	0.00	0.00
KIAA1324-like ortholog	Kiaa1324l	100760915	0.02	0.02	0.00	0.01	0.00	0.00	2.28	1.83	0.00	1.16	0.00	0.00
KIAA1328 ortholog	Kiaa1328	100763806	3.76	4.21	3.49	4.15	4.65	4.13	406.35	441.96	352.75	434.59	491.62	423.41
KIAA1377 ortholog	Kiaa1377	100762281	1.67	1.31	1.16	1.56	1.90	1.68	180.77	137.26	130.42	168.04	195.61	179.46

KIAA1407 ortholog	Kiaa1407	100773871	2.48	1.99	1.54	1.62	1.93	1.70	251.41	221.44	163.96	169.20	198.72	198.15
KIAA1429 ortholog	Kiaa1429	100759227	8.23	8.74	8.94	9.62	10.69	10.36	1407.43	1497.91	1561.30	1659.57	1842.28	1791.76
KIAA1430 ortholog	Kiaa1430	100752065	11.17	11.31	9.90	10.95	13.11	12.11	1272.23	1261.83	1140.24	1250.47	1471.75	1373.03
KIAA1432 ortholog	Kiaa1432	100760041	5.95	5.66	6.01	6.88	7.14	6.39	1192.48	1154.77	1247.06	1395.34	1442.77	1306.67
KIAA1456 ortholog	Kiaa1456	100771357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KIAA1462 ortholog	Kiaa1462	100762341	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
KIAA1467 ortholog	Kiaa1467	100773310	1.89	1.97	1.98	2.15	1.91	1.97	175.45	188.50	186.31	203.97	174.91	181.33
KIAA1468 ortholog	Kiaa1468	100750853	10.23	10.04	8.68	9.94	10.97	10.50	1699.85	1697.39	1484.29	1651.46	1839.17	1722.60
KIAA1522 ortholog	Kiaa1522	100751553	18.01	16.55	17.39	16.80	13.78	13.95	2653.83	2450.46	2587.27	2484.72	2022.36	2059.08
KIAA1524 ortholog	Kiaa1524	100760685	8.13	7.79	7.94	9.70	10.69	10.01	1300.33	1280.13	1291.77	1533.25	1699.45	1583.33
KIAA1549 ortholog	Kiaa1549	100771392	2.20	2.20	2.94	2.77	2.37	2.26	532.44	530.72	701.78	662.90	564.07	537.44
KIAA1549-like ortholog	Kiaa1549l	100755155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
KIAA1551 ortholog	Kiaa1551	100762086	9.30	8.64	7.89	10.53	14.32	13.24	1481.86	1396.34	1276.87	1702.45	2292.49	2141.33
KIAA1598 ortholog	Kiaa1598	100774279	3.64	3.57	2.50	2.44	2.81	2.49	427.62	449.28	319.22	289.73	327.06	302.83
KIAA1614 ortholog	Kiaa1614	100754212	1.24	1.21	1.37	0.99	0.75	0.86	181.53	180.26	198.73	143.71	108.67	126.18
KIAA1644 ortholog	Kiaa1644	100765500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KIAA1683 ortholog	Kiaa1683	100769749	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00
KIAA1715 ortholog	Kiaa1715	100753894	17.05	16.72	20.82	21.20	22.15	22.76	1173.49	1168.50	1459.45	1532.09	1648.73	1658.10
KIAA1731 ortholog	Kiaa1731	100755683	8.62	8.37	7.29	9.42	11.24	9.79	2037.84	2009.41	1776.18	2285.39	2694.07	2348.82
KIAA1751 ortholog	Kiaa1751	100756275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KIAA1755 ortholog	Kiaa1755	100764914	0.02	0.03	0.01	0.01	0.00	0.00	2.28	4.58	1.24	1.16	0.00	1.87
KIAA1841 ortholog	Kiaa1841	100755497	7.73	7.86	6.47	7.86	9.74	8.98	1111.21	1132.81	960.13	1088.23	1370.32	1300.13
KIAA1919 ortholog	Kiaa1919	100771202	4.43	5.15	5.17	5.89	6.88	6.27	382.81	436.47	448.39	501.81	567.17	547.72
KIAA1958 ortholog	Kiaa1958	100769984	1.43	1.37	1.21	2.18	2.14	1.74	151.15	121.70	125.45	181.95	161.46	156.09
KIAA2013 ortholog	Kiaa2013	100761634	23.15	23.06	25.55	18.45	13.47	14.72	1287.42	1273.73	1415.98	1014.05	734.84	805.69
KIAA2018 ortholog	Kiaa2018	100768025	2.21	1.94	1.64	2.24	2.43	2.13	548.39	484.05	419.83	558.60	604.43	532.76
KIAA2022 ortholog	Kiaa2022	100760705	0.01	0.00	0.00	0.00	0.00	0.01	0.76	0.00	0.00	0.00	0.00	0.93

KIAA2026 ortholog	Kiaa2026	100763428	3.88	3.86	3.63	5.03	5.00	4.62	792.96	786.93	750.22	1024.49	1019.46	951.49
kinase D-interacting substrate, 220kDa	Kidins220	100768633	14.07	13.94	13.28	14.76	16.26	16.12	2994.10	2982.09	2829.47	3140.67	3429.94	3409.68
kinesin family member 12	Kif12	100755270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin family member 13A	Kif13a	100762096	4.23	4.41	5.07	4.98	4.75	5.12	910.69	932.42	1089.31	1074.32	1022.57	1096.37
kinesin family member 13B	Kif13b	100759580	2.52	2.46	2.39	2.61	2.72	2.56	698.78	684.45	678.18	724.32	756.57	722.50
kinesin family member 14	Kif14	100759691	10.50	9.80	10.18	12.71	12.64	11.81	2193.55	2045.10	2133.91	2640.02	2608.17	2463.79
kinesin family member 15	Kif15	100762343	30.83	31.25	26.81	32.29	35.23	31.95	4464.57	4565.10	3912.57	4644.95	4995.88	4592.97
kinesin family member 16B	Kif16b	100758004	11.89	11.52	12.29	12.50	12.83	13.20	1834.29	1743.14	1866.86	1840.36	1945.77	1994.59
kinesin family member 17	Kif17	100757590	0.01	0.07	0.00	0.03	0.00	0.00	1.52	5.49	1.24	3.48	0.00	0.00
kinesin family member 18A	Kif18a	100770187	9.78	9.97	9.63	11.83	12.69	10.58	960.82	998.30	955.16	1165.87	1229.56	1026.27
kinesin family member 18B	Kif18b	100765148	31.65	31.09	20.23	19.90	17.20	17.75	2801.94	2754.25	1796.06	1758.08	1502.80	1576.79
kinesin family member 19	Kif19	100751211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin family member 1A	Kif1a	100770614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
kinesin family member 1C	Kif1c	100753779	28.03	30.44	29.05	28.45	24.12	26.29	2489.77	2703.01	2557.46	2481.25	2089.64	2290.88
kinesin family member 20A	Kif20a	100773707	26.52	28.52	30.79	34.19	35.99	34.88	2381.16	2577.65	2838.17	3069.98	3218.81	3018.05
kinesin family member 20B	Kif20b	100764040	13.97	13.08	12.23	16.26	16.86	14.70	2344.70	2188.76	2035.78	2684.06	2782.04	2418.93
kinesin family member 21A	Kif21a	100766958	28.00	29.10	29.95	38.64	45.67	36.49	1443.88	1407.32	1697.93	2006.09	2143.46	1868.40
kinesin family member 21B	Kif21b	100766089	0.08	0.12	0.06	0.04	0.03	0.04	28.10	29.28	18.63	12.75	7.24	14.02
kinesin family member 22	Kif22	100751676	59.53	61.09	62.77	62.28	61.92	66.73	3736.17	3904.45	3977.16	3866.16	3868.78	4080.77
kinesin family member 23	Kif23	100682531	18.68	18.42	16.91	19.43	21.55	19.32	1780.36	1783.40	1637.07	1857.75	2103.09	1828.21
kinesin family member 24	Kif24	100770944	0.99	1.03	1.38	1.33	1.55	1.38	161.78	162.88	231.03	227.15	248.40	224.32
kinesin family member 25	Kif25	100750864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
kinesin family member 26A	Kif26a	100750948	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00
kinesin family member 26B	Kif26b	100764244	0.04	0.02	0.00	0.00	0.00	0.00	6.84	3.66	0.00	0.00	0.00	0.00
kinesin family member 27	Kif27	100764407	0.10	0.11	0.10	0.11	0.11	0.07	31.14	33.86	29.81	27.81	25.87	19.63
kinesin family member 28, pseudogene	Kif28p	103161207	1.94	1.64	1.64	1.63	1.62	1.33	0.76	0.92	0.00	0.00	1.03	2.80
kinesin heavy chain member 2A	Kif2a	100756108	14.65	14.40	13.40	16.13	16.27	15.98	1717.32	1695.56	1543.91	1858.91	1903.34	1794.57
kinesin family member 2B	Kif2b	100760507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin family member 2C	Kif2c	100689309	24.24	23.73	21.93	24.60	26.46	25.89	2094.81	2105.49	1932.69	2110.39	2334.93	2202.08
kinesin family member 3A	Kif3a	100755936	4.83	4.92	5.46	5.65	6.65	6.48	770.93	827.19	878.16	912.07	1080.53	1048.70
kinesin family member 3B	Kif3b	100753120	8.83	7.95	9.34	10.07	11.74	11.99	852.20	759.48	920.39	970.02	1114.68	1139.36
kinesin family member 3C	Kif3c	100757377	4.69	4.78	6.48	6.10	5.80	5.10	573.45	586.54	804.87	747.50	713.11	632.77
kinesin family member 4A	Kif4a	100769995	12.40	11.93	10.31	12.35	13.19	12.11	1697.57	1642.49	1430.88	1672.32	1793.63	1644.08
kinesin family member 5A	Kif5a	100763800	0.14	0.20	0.17	0.14	0.19	0.20	20.51	23.79	17.39	16.22	24.84	24.30
kinesin family member 5B	Kif5b	100774173	62.16	59.24	54.41	64.10	67.40	62.19	9987.18	9559.36	8800.19	10226.31	10680.02	9964.51
kinesin family member 5C	Kif5c	100773258	0.01	0.01	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
kinesin family member 6	Kif6	100770243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
kinesin family member 7	Kif7	100762172	7.84	7.89	7.18	5.04	3.83	4.23	1058.80	1062.35	961.38	708.10	550.61	615.01
kinesin family member 9	Kif9	100768828	0.33	0.43	0.45	0.50	0.59	0.65	38.74	49.41	57.14	59.10	65.20	75.71
kinesin-associated protein 3	Kifap3	100754239	21.92	22.81	19.73	23.00	25.40	24.39	1662.63	1708.37	1470.63	1688.55	1865.05	1840.36
kinesin family member C1	Kifc1	100752355	42.11	40.25	38.44	31.02	22.29	24.06	2710.04	2612.42	2543.79	2026.95	1498.66	1607.63
kinesin family member C2	Kifc2	100754821	0.81	0.82	0.86	0.58	0.78	0.80	91.14	100.65	96.88	64.90	77.62	85.05
kinesin family member C3	Kifc3	100763525	2.67	2.36	1.79	1.40	1.33	1.13	276.47	254.38	185.07	150.66	134.55	109.36

KIN, antigenic determinant of recA protein homolog (mouse)	Kin	100761113	6.75	6.82	4.98	7.32	8.43	7.06	243.81	241.57	199.98	257.28	309.46	263.58
kin of IRRE like (Drosophila)	Kirrel	100774583	46.04	43.88	41.93	42.92	42.93	43.23	8556.21	8209.68	7867.38	8061.45	7996.30	8040.03
kin of IRRE like 2 (Drosophila)	Kirrel2	100773329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kin of IRRE like 3 (Drosophila)	Kirrel3	100762032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KiSS-1 metastasis-suppressor	Kiss1	100762823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KISS1 receptor	Kiss1r	100753032	0.68	0.51	0.51	0.32	0.40	0.65	25.82	21.96	17.39	9.27	12.42	19.63
v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	Kit	100751027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KIT ligand	Kitlg	100752139	10.39	10.65	8.60	9.90	11.18	10.10	1547.94	1606.80	1295.50	1491.53	1671.50	1524.45
kizuna centrosomal protein	Kiz	100770594	13.34	12.32	14.14	16.32	18.36	16.07	994.24	930.59	1081.86	1226.14	1362.04	1210.40
klotho	Kl	100758189	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
klotho beta	Klb	100758821	0.02	0.05	0.06	0.07	0.05	0.04	3.04	4.58	3.73	10.43	4.14	6.54
kinesin light chain 1	Klc1	100689219	97.55	94.98	82.09	79.13	79.00	84.03	6313.29	6206.67	5249.06	4991.47	4994.84	5322.94
kinesin light chain 2	Klc2	100764190	32.67	30.60	33.52	28.54	21.71	24.35	3007.78	2821.05	3108.94	2620.32	2000.63	2215.17
kinesin light chain 4	Klc4	100774201	16.03	16.27	16.22	13.52	11.04	11.15	1187.92	1203.27	1219.73	1012.90	821.78	854.29
Kruppel-like factor 1 (erythroid)	Klf1	100763392	0.15	0.16	0.12	0.15	0.18	0.12	6.08	8.24	4.97	5.79	8.28	4.67
Kruppel-like factor 10	Klf10	100775085	13.92	14.65	10.49	9.77	8.56	8.36	733.71	737.52	556.45	497.18	429.52	416.86
Kruppel-like factor 11	Klf11	100753145	10.17	9.77	9.27	9.67	9.85	9.01	1443.88	1398.17	1329.03	1377.96	1396.20	1283.30
Kruppel-like factor 12	Klf12	100751247	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	1.87
Kruppel-like factor 14	Klf14	100764325	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Kruppel-like factor 15	Klf15	100761798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kruppel-like factor 16	Klf16	100758273	9.61	9.62	8.85	7.92	6.24	6.90	1133.23	1132.81	1040.87	934.09	726.56	814.10
Kruppel-like factor 17	Klf17	100774184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kruppel-like factor 3 (basic)	Klf3	100762113	6.85	7.74	7.08	8.66	5.49	5.31	951.70	1055.95	966.34	1191.37	736.91	725.30
Kruppel-like factor 4 (gut)	Klf4	100763533	30.77	30.79	24.57	24.25	23.29	22.08	2384.19	2395.56	1923.99	1872.81	1793.63	1725.40
Kruppel-like factor 5 (intestinal)	Klf5	100774271	35.86	35.94	35.85	37.36	44.15	40.26	2713.83	2733.21	2737.56	2831.24	3329.55	3081.61
Kruppel-like factor 6	Klf6	100750724	69.77	68.18	58.76	62.62	72.86	71.53	3073.10	3060.79	2723.90	2845.15	3387.51	3259.19
Kruppel-like factor 7 (ubiquitous)	Klf7	100755667	6.21	6.20	2.95	4.08	5.50	5.36	737.51	744.84	358.96	490.22	653.08	645.86
Kruppel-like factor 8	Klf8	100765939	3.41	3.22	2.14	2.38	3.07	2.97	739.03	706.41	470.75	519.20	652.04	643.05
Kruppel-like factor 9	Klf9	100771438	18.51	18.16	14.47	16.26	15.12	13.93	1276.03	1278.30	1003.61	1131.11	1047.41	979.53
kelch domain containing 1	Klhdc1	100753687	2.56	2.80	2.97	3.65	4.54	3.83	124.56	135.42	134.15	161.09	192.51	178.52
kelch domain containing 10	Klhdc10	100764028	14.14	13.97	16.26	15.72	17.44	18.28	897.78	909.54	1079.37	1017.53	1118.82	1190.77
kelch domain containing 2	Klhdc2	100755535	48.75	50.13	57.66	58.99	63.36	59.71	1948.98	2050.59	2301.59	2360.72	2562.63	2305.83
kelch domain containing 3	Klhdc3	100770840	32.35	30.73	38.44	39.19	33.33	35.94	1593.51	1537.26	1971.19	1920.33	1619.75	1717.92
kelch domain containing 4	Klhdc4	100768960	36.92	37.81	35.82	31.37	26.39	26.39	2173.80	2210.72	2138.87	1824.14	1546.27	1565.57
kelch domain containing 7A	Klhdc7a	100769888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch domain containing 7B	Klhdc7b	100769456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch domain containing 8A	Klhdc8a	100754881	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
kelch domain containing 8B	Klhdc8b	100764543	0.46	0.37	0.31	0.32	0.30	0.27	38.74	29.28	26.08	26.66	34.15	32.71
kelch domain containing 9	Klhdc9	100766323	5.85	5.07	5.36	5.15	4.29	5.03	320.53	314.77	342.82	304.80	229.77	256.10
kelch-like family member 1	Klhl1	100772180	0.31	0.24	0.12	0.12	0.04	0.14	35.70	22.88	12.42	13.91	8.28	14.02
kelch-like family member 10	Klhl10	100755541	1.96	1.10	1.30	1.33	1.12	1.17	44.05	43.01	26.08	27.81	32.08	41.13

kelch-like family member 11	Klhl11	100750471	18.35	19.57	18.06	19.53	21.38	21.57	1121.08	1197.78	1137.75	1202.96	1321.68	1394.53
kelch-like family member 12	Klhl12	100752808	17.06	16.08	17.51	18.73	21.11	23.11	1106.65	1053.20	1142.72	1216.87	1385.85	1502.95
kelch-like family member 13	Klhl13	100764640	0.03	0.05	0.03	0.06	0.01	0.06	2.28	4.58	2.48	4.64	1.03	4.67
kelch-like family member 14	Klhl14	100773910	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch-like family member 15	Klhl15	100768724	1.08	1.11	1.78	1.55	1.95	2.13	191.40	200.39	314.25	281.62	344.65	376.67
kelch-like family member 17	Klhl17	100772708	6.23	6.00	8.00	7.98	7.22	7.59	555.22	543.53	705.51	688.40	618.92	676.70
kelch-like family member 18	Klhl18	100765054	6.50	6.26	5.83	5.21	3.85	4.07	486.86	464.84	438.46	395.19	293.94	305.64
kelch-like family member 2	Klhl2	100757106	19.73	19.58	22.46	23.93	26.11	26.75	1629.97	1628.76	1861.89	1944.67	2137.25	2200.21
kelch-like family member 20	Klhl20	100774070	12.18	12.04	13.04	13.63	14.98	13.99	1389.20	1386.28	1502.93	1539.05	1683.92	1605.76
kelch-like family member 21	Klhl21	100760231	19.57	19.53	28.03	22.59	17.96	21.02	502.06	527.97	714.20	571.35	494.72	498.18
kelch-like family member 22	Klhl22	100752906	34.91	33.44	37.66	35.66	30.80	34.66	2516.35	2442.22	2733.83	2561.21	2199.35	2513.33
kelch-like family member 23	Klhl23	100765014	4.66	5.12	6.19	7.15	7.48	7.56	397.24	450.20	557.70	630.45	642.73	659.88
kelch-like family member 24	Klhl24	100758788	8.58	9.54	12.31	12.95	12.93	11.74	592.44	651.50	845.86	909.75	890.09	826.25
kelch-like family member 25	Klhl25	100767883	5.31	5.76	4.80	4.21	3.40	3.85	498.26	536.21	453.36	395.19	322.92	373.87
kelch-like family member 26	Klhl26	100756815	2.91	2.59	3.28	2.91	2.34	2.25	266.60	245.23	314.25	264.23	217.35	224.32
kelch-like family member 28	Klhl28	100755905	2.99	3.03	3.08	2.99	3.87	3.58	338.75	346.80	353.99	348.83	430.55	414.99
kelch-like family member 29	Klhl29	100761820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch-like family member 3	Klhl3	100753683	0.23	0.17	0.07	0.09	0.23	0.14	15.95	15.56	6.21	6.95	17.59	7.48
kelch-like family member 30	Klhl30	100772873	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
kelch-like family member 31	Klhl31	100752315	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
kelch-like family member 32	Klhl32	100768357	0.07	0.04	0.00	0.00	0.00	0.02	3.80	3.66	1.24	1.16	1.03	0.93
kelch-like family member 33	Klhl33	100754250	0.09	0.02	0.12	0.03	0.10	0.05	6.84	1.83	9.94	2.32	7.24	5.61
kelch-like family member 34	Klhl34	100752600	0.89	0.99	0.86	1.04	0.84	0.97	101.78	109.80	96.88	118.21	95.22	113.10
kelch-like family member 35	Klhl35	100757747	0.00	0.00	0.00	0.00	0.03	0.03	1.52	0.92	1.24	1.16	2.07	2.80
kelch-like family member 36	Klhl36	100772106	3.83	4.38	3.74	3.69	2.29	2.65	237.74	272.68	237.24	236.42	151.11	177.59
kelch-like family member 38	Klhl38	100764038	0.23	0.14	0.06	0.04	0.03	0.00	3.04	0.92	1.24	1.16	0.00	0.00
kelch-like family member 4	Klhl4	100764135	2.11	2.32	2.57	2.46	3.03	3.30	221.03	248.89	278.23	271.19	310.50	357.04
kelch-like family member 40	Klhl40	100771575	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
kelch-like family member 41	Klhl41	100763060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch-like family member 42	Klhl42	100757442	16.92	16.84	20.01	20.09	22.66	21.74	1421.10	1431.11	1697.93	1693.18	1862.98	1841.30
kelch-like family member 6	Klhl6	100758501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch-like family member 7	Klhl7	100763513	45.66	48.67	56.07	59.62	63.67	62.37	2334.82	2483.40	2865.49	3051.44	3202.25	3196.57
kelch-like family member 8	Klhl8	100751625	4.56	4.39	2.59	3.29	3.55	3.48	387.37	376.08	221.09	279.30	301.18	293.49
kelch-like family member 9	Klhl9	100765563	33.40	34.08	35.46	37.97	43.74	41.51	3765.04	3846.80	4033.06	4293.80	4912.05	4720.08
kallikrein 1	Klk1	100754155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 10	Klk10	100752352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 11	Klk11	100756472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 12	Klk12	100752058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 13	Klk13	100761429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 14	Klk14	100764613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
kallikrein-related peptidase 15	Klk15	100753855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 4	Klk4	100757055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 5	Klk5	100756768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 6	Klk6	100753252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 7	Klk7	100753553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein-related peptidase 8	Klk8	100752953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

kallikrein-related peptidase 9	Klk9	100752653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kallikrein B, plasma (Fletcher factor) 1	Klkb1	100767873	0.02	0.00	0.00	0.00	0.02	0.00	0.76	0.00	1.24	0.00	1.03	1.87
killin, p53-regulated DNA replication inhibitor	Klln	103162910	0.39	0.45	0.16	0.24	0.28	0.42	28.10	33.86	11.18	18.54	19.66	28.97
killer cell lectin-like receptor subfamily G, member 1	Klrg1	100761776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor subfamily G, member 2	Klrg2	100771105	7.42	7.36	10.66	9.47	7.57	8.33	366.86	376.08	535.34	475.16	369.49	413.12
kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	Kmo	100772925	0.04	0.00	0.06	0.00	0.02	0.02	2.28	1.83	2.48	0.00	2.07	0.93
lysine (K)-specific methyltransferase 2A	Kmt2a	100760424	12.24	12.25	12.01	13.44	13.62	13.48	4801.05	4828.63	4777.07	5339.14	5367.44	5340.70
lysine (K)-specific methyltransferase 2B	Kmt2b	100750575	2.82	2.82	2.33	1.56	0.90	0.91	447.37	460.26	383.80	270.03	165.60	170.11
lysine (K)-specific methyltransferase 2C	Kmt2c	100767367	4.70	4.63	4.68	5.19	5.52	5.69	2407.74	2404.71	2435.73	2693.33	2841.04	2947.95
lysine (K)-specific methyltransferase 2D	Kmt2d	100765465	6.31	5.95	6.37	6.11	4.88	5.06	3791.62	3575.04	3844.26	3721.29	2956.96	3091.89
lysine (K)-specific methyltransferase 2E	Kmt2e	100756731	9.60	9.59	9.64	10.38	10.57	9.94	1940.62	1919.74	1958.77	2118.51	2124.83	2045.99
kinocilin	Kncn	100760160	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
kinase non-catalytic C-lobe domain (KIND) containing 1	Kndc1	100770095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kininogen 1	Kng1	100764285	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
lysine-rich nucleolar protein 1	Knop1	100751019	36.54	37.72	37.25	39.34	38.48	41.31	5165.63	5335.56	5298.74	5568.61	5410.91	5850.10
kinetochore-localized astrin/SPAG5 binding protein	Knstrn	100759555	44.68	48.29	44.66	46.33	47.61	49.40	1917.08	2074.38	1874.31	1936.56	2034.78	2072.16
karyopherin alpha 1 (importin alpha 5)	Kpna1	103158558	4.54	3.09	3.55	4.47	4.48	4.52	3.04	0.92	1.24	2.32	2.07	4.67
karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	Kpna2	100768235	103.46	106.85	100.69	113.17	115.10	112.90	5557.55	5708.89	5422.95	6000.89	6050.53	5996.84
karyopherin alpha 3 (importin alpha 4)	Kpna3	100761838	36.75	37.01	31.50	34.88	35.80	35.91	4258.74	4318.96	3665.40	4051.58	4113.04	4149.00
karyopherin alpha 4 (importin alpha 3)	Kpna4	100757318	66.50	67.17	73.07	80.97	79.31	76.76	6614.07	6773.08	7349.43	8033.63	7841.06	7701.68
karyopherin alpha 5 (importin alpha 6)	Kpna5	100771427	2.20	2.05	1.03	1.23	1.35	1.30	320.53	299.22	152.78	184.27	198.72	193.48
karyopherin alpha 6 (importin alpha 7)	Kpna6	100754505	42.53	41.87	46.08	44.56	44.90	50.88	7163.97	7121.71	7876.07	7574.70	7583.34	8567.18
karyopherin alpha 7 (importin alpha 8)	Kpna7	100750897	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
karyopherin (importin) beta 1	Kpnb1	100762896	396.04	389.03	283.62	308.00	301.39	300.48	46419.24	46138.74	33787.25	36224.36	35313.73	35064.13
keratinocyte proline-rich protein	Kprp	100756266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kaptin (actin binding protein)	Kptn	100765362	3.75	3.35	1.74	1.40	0.79	0.93	165.58	145.49	74.53	70.69	38.29	47.67
Kirsten rat sarcoma viral oncogene homolog	Kras	100763178	20.80	21.26	22.01	23.63	26.63	25.11	1712.00	1769.67	1824.63	1974.80	2231.43	2170.30
KRAB-A domain containing 1	Krba1	100774574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysine-rich coiled-coil 1	Krcc1	100769396	35.87	39.28	47.57	57.21	58.20	54.19	1444.64	1590.33	1935.17	2299.30	2351.49	2188.06
kringle containing transmembrane protein 2	Kremen 2	100771248	0.13	0.05	0.05	0.00	0.04	0.04	9.11	6.41	3.73	1.16	3.10	4.67
KRI1 homolog (S. cerevisiae)	Kri1	100771958	50.64	48.97	52.76	49.66	44.79	44.99	3309.31	3223.66	3490.26	3273.95	2983.87	2944.21
KRIT1, ankyrin repeat containing	Krit1	100758813	15.38	15.59	14.47	16.34	18.72	16.92	1653.52	1710.20	1620.92	1762.72	2018.22	1821.67

KRR1, small subunit (SSU) processome component, homolog (yeast)	Krr1	100760872	55.69	57.07	51.24	53.35	55.17	52.10	2572.56	2681.96	2382.32	2425.62	2504.67	2375.00
keratin 1	Krt1	100765316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 13	Krt13	100758976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 14	Krt14	100760043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 15	Krt15	100759259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 16	Krt16	100760336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 17	Krt17	100760921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 18	Krt18	100759201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 19	Krt19	100759756	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 2	Krt2	100752858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 222	Krt222	100762604	0.12	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	1.16	0.00	0.00
keratin 28	Krt28	100769462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 32	Krt32	100758110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 34	Krt34	100757817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 35	Krt35	100758394	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 36	Krt36	100758686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 4	Krt4	100774447	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 40	Krt40	100758909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 5	Krt5	100754346	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
keratin 7	Krt7	100771838	0.22	0.09	0.27	0.15	0.13	0.15	11.39	5.49	9.94	6.95	8.28	6.54
keratin 71	Krt71	100754630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 72	Krt72	100752072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 73	Krt73	100752555	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 74	Krt74	100754923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 77	Krt77	100765610	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
keratin 78	Krt78	100774159	0.49	0.40	0.17	0.28	0.09	0.22	44.05	38.43	13.66	24.34	9.31	16.82
keratin 79	Krt79	100773865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 8	Krt8	100759488	0.00	0.00	0.03	0.03	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
keratin 80	Krt80	100771547	4.07	4.29	1.67	1.73	2.36	2.16	407.87	443.79	178.86	173.84	238.05	218.71
keratin 81	Krt81	100766653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 82	Krt82	100765776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 83	Krt83	100764732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 84	Krt84	100765488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 86	Krt86	100764435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin 9	Krt9	100762074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratinocyte associated protein 2	Krtcap2	100757504	94.94	92.99	114.73	100.58	85.79	89.92	1212.98	1144.71	1337.73	997.83	834.20	897.28
keratinocyte associated protein 3	Krtcap3	100773669	0.30	0.24	0.37	0.32	0.21	0.22	28.10	31.11	26.08	15.07	16.56	19.63
keratinocyte differentiation-associated protein	Krtdap	103164079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinase suppressor of ras 1	Ksr1	100769629	1.23	1.22	1.63	1.04	0.65	0.85	104.06	102.48	141.60	92.71	62.10	72.90
kinase suppressor of ras 2	Ksr2	100758412	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
KTI12 homolog, chromatin associated (S. cerevisiae)	Kti12	100753691	54.82	53.47	51.22	39.99	29.36	31.42	2305.20	2261.96	2224.58	1863.54	1482.10	1540.34

kinectin 1 (kinesin receptor)	Ktn1	100752812	43.75	39.74	35.47	44.87	44.25	40.58	6292.78	5878.18	5265.21	6476.04	6450.03	5784.67
kyphoscoliosis peptidase	Ky	100770249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kynureninase	Kynu	100771448	0.26	0.07	0.10	0.05	0.19	0.16	6.84	2.75	2.48	1.16	2.07	3.74
L1 cell adhesion molecule	L1cam	100769119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LINE-1 type transposase domain containing 1	L1td1	100758719	0.51	0.58	0.05	0.03	0.03	0.00	39.50	43.01	3.73	3.48	2.07	0.00
L-2-hydroxyglutarate dehydrogenase	L2hgdh	100768751	4.18	3.79	4.89	4.63	5.63	5.86	391.16	370.59	464.54	462.41	538.19	571.08
L-3-hydroxyproline dehydratase (trans-)	L3hypdh	100764709	2.27	2.51	2.79	3.54	3.87	3.67	79.75	86.93	105.58	110.10	126.27	118.70
l(3)mbt-like 1 (Drosophila)	L3mbtl1	100772152	0.03	0.05	0.02	0.04	0.05	0.05	3.80	7.32	6.21	6.95	5.17	7.48
l(3)mbt-like 2 (Drosophila)	L3mbtl2	100751536	11.35	12.41	12.25	12.14	14.29	15.56	615.99	639.61	635.95	628.13	648.94	684.18
l(3)mbt-like 3 (Drosophila)	L3mbtl3	100767229	8.19	8.33	6.96	6.06	6.86	5.34	558.26	565.49	475.72	409.10	456.43	363.59
l(3)mbt-like 4 (Drosophila)	L3mbtl4	100766135	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
MHC class I antigen Hm1-C5	LOC100689008	100689008	75.48	76.77	81.69	68.80	51.82	57.25	1524.40	1474.12	1546.40	1273.65	1033.95	1178.62
MHC class I antigen Hm1-C4	LOC100689009	100689009	21.05	19.53	23.23	18.05	12.04	14.94	429.90	382.48	520.43	506.45	319.81	430.88
MHC class I antigen Hm1-C2	LOC100689010	100689010	31.04	29.61	29.37	21.88	14.57	19.23	710.93	647.84	688.12	553.96	362.25	491.64
MHC class I antigen Hm1-C3	LOC100689011	100689011	32.65	30.38	40.25	37.86	32.47	32.89	1385.40	1349.67	1796.06	1733.74	1554.55	1510.43
U14 snoRNA	LOC100689269	100689269	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.92	3.73	0.00	2.07	0.93
U14 snoRNA	LOC100689270	100689270	0.00	0.00	0.00	0.00	0.00	0.00	6.84	3.66	4.97	10.43	14.49	9.35
beta major globin chain	LOC100689319	100689319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf49	LOC100689364	100689364	10.92	10.28	9.38	7.17	8.53	9.37	281.03	306.54	327.91	285.09	301.18	274.79
caspase-9	LOC100689370	100689370	4.96	5.12	5.10	4.58	3.82	5.09	316.73	299.22	306.80	283.94	232.87	314.98
keratin-associated protein 14-like	LOC100750334	100750334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADP-dependent malic enzyme, mitochondrial pseudogene	LOC100750335	100750335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L12-like	LOC100750337	100750337	142.97	136.48	123.54	62.30	27.80	33.23	1733.27	1665.36	1449.52	677.97	309.46	365.46

speckle-type POZ protein-like	LOC100750339	100750339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2B1	LOC100750340	100750340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sorbitol dehydrogenase pseudogene	LOC100750341	100750341	0.03	0.10	0.00	0.04	0.08	0.00	0.76	2.75	0.00	1.16	2.07	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100750345	100750345	0.04	0.02	0.00	0.00	0.03	0.00	0.76	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100750346	100750346	0.09	0.09	0.11	0.04	0.13	0.01	3.80	4.58	4.97	2.32	4.14	0.00
nuclear autoantigen Sp-100-like	LOC100750349	100750349	6.19	6.72	5.71	5.77	6.45	6.59	281.03	305.62	250.90	251.49	263.92	292.55
chromosome unknown open reading frame, human C11orf94	LOC100750351	100750351	1.05	0.80	0.70	0.37	0.20	0.00	90.39	63.14	95.64	68.38	58.99	42.06
ribosomal protein S6 kinase alpha-4	LOC100750354	100750354	31.95	32.55	29.06	19.15	14.79	17.82	1185.64	1225.23	1179.98	886.57	785.55	940.28
interferon-induced guanylate-binding protein 1-like	LOC100750355	100750355	0.03	0.02	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit J-like	LOC100750360	100750360	0.44	0.45	0.00	0.00	0.51	0.00	5.32	4.58	0.00	0.00	5.17	0.00
protein B-Myc	LOC100750363	100750363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 7 member 13-like	LOC100750364	100750364	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 82 pseudogene	LOC100750366	100750366	0.17	0.13	0.18	0.15	0.13	0.21	9.87	6.41	4.97	6.95	6.21	8.41
oxytocin-neurophysin 1	LOC100750370	100750370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxytocin-neurophysin 1-like	LOC100750371	100750371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 883-like	LOC100750376	100750376	4.34	4.87	3.88	4.74	5.63	5.18	458.00	518.82	404.92	496.02	579.59	519.68
olfactory receptor 10Z1	LOC100750377	100750377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 1 pseudogene	LOC100750378	100750378	0.22	0.27	0.00	0.00	0.32	0.29	25.82	24.71	17.39	12.75	20.70	19.63

interferon-inducible protein AIM2	LOC100750381	100750381	29.97	30.08	29.88	32.83	38.80	32.76	2783.71	2813.73	2824.51	3064.18	3621.42	3083.48
ubiquitin-60S ribosomal protein L40-like	LOC100750383	100750383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor GPCRLTM7	LOC100750400	100750400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF-like	LOC100750406	100750406	2.86	2.77	3.63	3.36	5.01	4.16	268.12	262.61	347.78	327.97	470.92	400.04
actin-related protein 3B	LOC100750418	100750418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
selenoprotein K pseudogene	LOC100750421	100750421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	2.48	0.00	0.00	2.80
uncharacterized protein CXorf21-like	LOC100750423	100750423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 260-like	LOC100750424	100750424	2.40	2.61	2.53	2.97	2.87	3.21	164.82	179.35	170.17	198.18	195.61	219.65
eukaryotic translation initiation factor 1 pseudogene	LOC100750428	100750428	29.83	31.26	23.55	29.28	24.87	25.25	314.45	358.69	258.35	268.87	265.99	232.73
60S acidic ribosomal protein P0 pseudogene	LOC100750433	100750433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin beta-14-like	LOC100750434	100750434	0.10	0.12	0.15	0.02	0.06	0.07	3.04	1.83	7.45	1.16	4.14	5.61
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100750435	100750435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100750436	LOC100750436	100750436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36a-like	LOC100750438	100750438	0.19	0.00	0.00	0.33	0.28	0.00	0.76	0.00	0.00	1.16	1.03	0.00
olfactory receptor 2C1-like	LOC100750442	100750442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sepiapterin reductase-like	LOC100750443	100750443	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
dnaJ homolog subfamily C member 8 pseudogene	LOC100750452	100750452	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secreted seminal-vesicle Ly-6 protein 1-like	LOC100750453	100750453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100750455	LOC100750455	100750455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100750456	100750456	0.03	0.08	0.00	0.05	0.09	0.01	0.76	1.83	0.00	1.16	1.03	0.00
vomeronasal type-2 receptor 116-like	LOC100750458	100750458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC100750459	100750459	0.63	0.62	0.18	0.24	0.17	0.00	7.60	15.56	7.45	3.48	3.10	3.74
serine/arginine-rich splicing factor 3 pseudogene	LOC100750467	100750467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	2.32	2.07	0.93
PRAME family member 9/15-like	LOC100750468	100750468	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ruvB-like 2 pseudogene	LOC100750474	100750474	0.20	0.13	0.32	0.10	0.09	0.13	6.84	4.58	11.18	3.48	3.10	4.67
cytochrome c, somatic pseudogene	LOC100750475	100750475	0.19	0.00	0.00	0.00	0.00	0.00	8.35	0.00	1.24	1.16	0.00	2.80
protein-S-isoprenylcysteine O-methyltransferase-like	LOC100750476	100750476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L6 pseudogene	LOC100750478	100750478	0.40	0.18	0.42	0.17	0.15	0.00	7.60	4.58	7.45	3.48	3.10	0.00
chromosome unknown open reading frame, human C2orf69	LOC100750484	100750484	4.83	4.79	5.06	4.81	6.05	4.82	374.45	378.82	398.71	383.60	477.13	383.21
olfactory receptor 4D1	LOC100750490	100750490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-3-3 protein theta pseudogene	LOC100750496	100750496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5M11-like	LOC100750497	100750497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel subfamily D member 2	LOC100750498	100750498	0.23	0.29	0.07	0.21	0.10	0.15	11.39	16.47	4.97	13.91	6.21	7.48
zinc finger protein 883	LOC100750500	100750500	4.12	3.83	4.09	4.96	5.50	5.74	331.92	316.60	330.40	404.46	454.36	474.81
olfactory guanylyl cyclase GC-D	LOC100750501	100750501	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
olfactory receptor 2H1-like	LOC100750504	100750504	0.00	0.01	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	2.07	0.00

zinc finger protein 451	LOC100750506	100750506	5.73	5.54	5.64	6.12	6.46	6.39	578.01	565.49	562.67	629.29	649.97	645.86
cytochrome P450 2D4	LOC100750508	100750508	4.49	4.42	5.88	5.11	4.79	5.78	319.01	301.96	416.10	365.06	357.07	422.47
killer cell lectin-like receptor 2	LOC100750511	100750511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class II histocompatibility antigen, E-S beta chain-like	LOC100750512	100750512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100750514	LOC100750514	100750514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100750515	100750515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3-like	LOC100750516	100750516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 2-like	LOC100750527	100750527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
outer dense fiber protein 1-like	LOC100750528	100750528	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B3-like	LOC100750529	100750529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-related adapter protein	LOC100750533	100750533	1.09	1.19	0.40	0.22	0.44	0.35	33.42	36.60	14.91	9.27	12.42	10.28
zinc finger protein 431-like	LOC100750536	100750536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial pseudogene	LOC100750539	100750539	0.00	0.00	0.00	0.00	0.00	0.00	1.52	3.66	0.00	0.00	2.07	0.00
disintegrin and metalloproteinase domain-containing protein 25-like	LOC100750541	100750541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SRA stem-loop-interacting RNA-binding protein, mitochondrial pseudogene	LOC100750546	100750546	1.76	1.32	0.85	2.11	1.92	1.44	4.56	2.75	1.24	6.95	6.21	5.61
lysozyme C-1	LOC100750548	100750548	0.00	0.19	0.07	0.00	0.06	0.05	0.76	3.66	1.24	2.32	2.07	1.87
UDP-glucuronosyltransferase 1-8 pseudogene	LOC100750549	100750549	0.04	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 1-F	LOC100750550	100750550	0.15	0.09	0.15	0.05	0.08	0.08	4.56	2.75	3.73	1.16	2.07	3.74

Ig heavy chain V-III region VH26-like	LOC100750551	100750551	0.00	0.00	0.00	0.00	0.00	0.15						
olfactory receptor 12-like	LOC100750553	100750553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37a-like	LOC100750557	100750557	0.42	1.03	0.90	0.00	0.30	0.57	1.52	3.66	2.48	0.00	1.03	0.93
histone H4	LOC100750560	100750560	0.15	0.00	0.00	0.00	0.00	0.18	3.04	0.92	0.00	0.00	1.03	5.61
uncharacterized LOC100750562	LOC100750562	100750562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 2G3-like	LOC100750564	100750564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L34 pseudogene	LOC100750567	100750567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L10-like	LOC100750572	100750572	11.87	11.67	11.04	8.90	9.61	10.58	82.79	92.42	89.43	64.90	68.31	82.25
olfactory receptor 5W2-like	LOC100750574	100750574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf25	LOC100750581	100750581	11.72	10.91	11.17	13.42	13.35	13.10	649.41	609.41	621.04	744.03	722.42	721.57
histone-lysine N-methyltransferase EZH2-like	LOC100750584	100750584	0.00	0.00	0.00	0.02	0.02	0.00	1.52	0.00	0.00	1.16	1.03	0.93
N-lysine methyltransferase SETD8 pseudogene	LOC100750585	100750585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anionic trypsin-like	LOC100750587	100750587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100750590	LOC100750590	100750590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37 pseudogene	LOC100750592	100750592	0.98	1.05	0.73	0.86	0.75	0.69	17.47	19.22	6.21	5.79	11.38	4.67
acyl-CoA desaturase 1	LOC100750593	100750593	50.91	49.62	83.85	88.05	96.15	98.78	7230.05	7038.44	11972.48	12452.59	13462.07	14002.29
olfactory receptor 5AC1-like	LOC100750595	100750595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor 2	LOC100750597	100750597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

serum amyloid A-5 protein	LOC100750598	100750598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 30	LOC100750599	100750599	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100750600	LOC100750600	100750600	0.67	0.47	1.04	0.31	0.73	0.91	20.51	16.47	33.54	18.54	39.33	31.78
prolactin	LOC100750601	100750601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 26-like	LOC100750604	100750604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alkaline phosphatase, placental-like	LOC100750606	100750606	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane epididymal protein 1	LOC100750611	100750611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100750613	100750613	27.17	25.43	23.12	22.39	24.71	29.78	724.60	664.31	640.92	600.32	662.39	831.86
ATP-dependent RNA helicase DDX18 pseudogene	LOC100750617	100750617	1.42	1.36	1.21	1.25	1.24	1.17	31.90	33.86	19.87	25.50	28.98	25.24
chromosome unknown open reading frame, human C18orf63	LOC100750618	100750618	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
keratin-associated protein 19-3-like	LOC100750623	100750623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
partner of Y14 and mago	LOC100750626	100750626	0.06	0.00	0.00	0.00	0.00	0.00	9.87	4.58	2.48	2.32	0.00	0.00
schlafen family member 13-like	LOC100750627	100750627	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100750628	100750628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
sperm motility kinase Z-like	LOC100750629	100750629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100750634	100750634	2.10	2.87	2.78	1.29	2.36	0.97	42.53	63.14	59.62	25.50	49.68	16.82
interferon alpha-12	LOC100750635	100750635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear autoantigen Sp-100-like	LOC100750637	100750637	0.35	0.22	0.48	0.27	0.97	0.82	27.34	17.39	42.23	27.81	71.41	72.90

putative protein FAM47D	LOC100750638	100750638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase Mu 7	LOC100750644	100750644	39.75	42.57	34.51	36.29	35.39	37.84	1427.17	1549.15	1242.09	1288.72	1267.86	1340.32
reticulon-1	LOC100750648	100750648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100750652	100750652	6.25	7.57	5.08	4.00	5.34	4.05	47.85	64.97	37.26	24.34	34.15	20.56
histone H2A type 2-B	LOC100750653	100750653	0.31	0.17	0.24	0.02	0.00	0.00	1.52	2.75	2.48	2.32	4.14	1.87
olfactory receptor 2Y1-like	LOC100750654	100750654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100750656	100750656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced protein with tetratricopeptide repeats 3-like	LOC100750657	100750657	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C20orf141	LOC100750658	100750658	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
serpin B6 pseudogene	LOC100750660	100750660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate kinase PKM pseudogene	LOC100750663	100750663	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	1.24	0.00	0.00	0.93
olfactory receptor 7E24-like	LOC100750664	100750664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S19 pseudogene	LOC100750666	100750666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-activable protein 203-like	LOC100750669	100750669	0.35	0.15	1.85	2.37	0.62	0.86	14.43	8.24	88.19	121.69	24.84	31.78
transmembrane protein 230 pseudogene	LOC100750671	100750671	0.00	0.00	0.00	0.00	0.06	0.00	6.08	5.49	8.69	4.64	1.03	3.74
PRELI domain-containing protein 1, mitochondrial-like	LOC100750687	100750687	0.00	0.00	0.00	0.00	0.00	0.00	5.32	5.49	2.48	2.32	5.17	2.80
elongation factor 1-alpha 1-like	LOC100750688	100750688	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100750690	100750690	0.00	0.09	0.13	0.00	0.11	0.00	0.76	3.66	2.48	2.32	2.07	0.00

glutathione S-transferase kappa 1-like	LOC100750691	100750691	3.65	3.38	4.53	4.75	5.81	4.19	88.87	86.01	108.06	115.89	137.65	102.81
regenerating islet-derived protein 3-alpha-like	LOC100750692	100750692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8	LOC100750693	100750693	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell ecto-ADP-ribosyltransferase 1-like	LOC100750708	100750708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase A2-like	LOC100750710	100750710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 B-like	LOC100750711	100750711	7.15	8.08	6.99	6.46	7.50	6.24	6.08	8.24	14.91	3.48	9.31	8.41
NEDD8 pseudogene	LOC100750714	100750714	1.09	0.53	2.61	0.00	1.26	0.59	3.80	1.83	8.69	0.00	4.14	1.87
zinc finger protein 11	LOC100750719	100750719	1.71	1.80	1.87	2.29	2.68	2.40	512.69	514.25	561.42	664.06	756.57	715.96
protocadherin beta-14-like	LOC100750720	100750720	0.04	0.00	0.00	0.01	0.00	0.03	1.52	0.00	0.00	0.00	1.03	0.93
uncharacterized LOC100750722	LOC100750722	100750722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear body protein SP140-like	LOC100750728	100750728	6.80	9.00	7.98	6.77	7.05	6.03	223.30	286.41	265.81	265.39	244.26	246.75
sperm motility kinase X-like	LOC100750729	100750729	0.02	0.07	0.10	0.08	0.02	0.08	3.80	5.49	1.24	2.32	3.10	6.54
40S ribosomal protein S25	LOC100750731	100750731	6.86	9.57	7.77	3.11	7.00	4.16	57.72	81.44	68.31	25.50	56.92	27.11
olfactory receptor 491	LOC100750739	100750739	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100750741	100750741	0.58	0.65	0.46	0.37	0.31	0.42	14.43	12.81	9.94	9.27	7.24	8.41
pre-mRNA-splicing factor SPF27 pseudogene	LOC100750742	100750742	0.08	0.10	0.06	0.00	0.00	0.15	1.52	1.83	1.24	0.00	0.00	2.80
cytochrome P450 4V2	LOC100750743	100750743	5.46	6.76	5.98	5.54	6.81	7.47	198.24	235.16	193.77	181.95	275.31	233.67
Ig lambda chain V-VI region SUT-like	LOC100750744	100750744	0.00	0.00	0.00	0.00	0.00	0.00						

olfactory receptor 1444	LOC100750745	100750745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18a pseudogene	LOC100750746	100750746	0.10	0.17	0.11	0.32	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC100750754	100750754	0.00	0.31	0.00	0.14	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100750760	100750760	0.05	0.06	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
zinc finger protein 431-like	LOC100750763	100750763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf18	LOC100750764	100750764	2.61	2.98	2.22	1.74	1.21	1.60	96.46	111.63	85.70	68.38	51.75	61.69
serine protease 29-like	LOC100750768	100750768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermine synthase pseudogene	LOC100750770	100750770	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D2	LOC100750777	100750777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein ENSP00000340100 homolog	LOC100750780	100750780	0.00	0.01	0.01	0.01	0.01	0.00	224.06	225.10	212.40	113.57	36.22	42.06
olfactory receptor 5M11-like	LOC100750785	100750785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgin subfamily A member 7 pseudogene	LOC100750787	100750787	0.14	0.46	0.16	0.15	0.66	0.12	0.76	2.75	1.24	1.16	5.17	0.93
olfactory receptor 10K2	LOC100750789	100750789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
charged multivesicular body protein 6 pseudogene	LOC100750796	100750796	0.68	0.98	1.00	0.85	0.47	0.34	44.81	48.50	34.78	26.66	19.66	14.95
killer cell lectin-like receptor 2	LOC100750803	100750803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L51, mitochondrial pseudogene	LOC100750805	100750805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100750807	100750807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L37 pseudogene	LOC100750808	100750808	175.27	168.29	176.65	186.88	184.42	179.77	309.13	303.79	276.99	259.60	271.17	252.36

60S ribosomal protein L27 pseudogene	LOC100750813	100750813	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
outer dense fiber protein 1-like	LOC100750820	100750820	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	1.16	1.03	1.87
aphrodisin-like	LOC100750821	100750821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b-c1 complex subunit 2, mitochondrial	LOC100750822	100750822	67.40	70.42	71.61	76.75	83.27	86.46	3228.04	3378.30	3479.09	3679.57	3971.24	4045.25
60S ribosomal protein L32 pseudogene	LOC100750823	100750823	4.03	2.57	2.66	1.72	2.09	0.95	28.86	18.30	18.63	11.59	15.52	6.54
monocarboxylate transporter 1-like	LOC100750832	100750832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 24-like	LOC100750833	100750833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEST proteolytic signal-containing nuclear protein pseudogene	LOC100750835	100750835	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S27-like pseudogene	LOC100750836	100750836	51.52	61.75	57.97	51.52	49.23	54.60	426.86	486.80	403.68	347.68	289.80	336.48
testis-specific serine kinase substrate-like	LOC100750839	100750839	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
upstream-binding factor 1-like protein 1	LOC100750841	100750841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-8-like	LOC100750842	100750842	0.07	0.20	0.22	0.21	0.38	0.21	0.76	4.58	6.21	4.64	7.24	4.67
histone H2B type 1	LOC100750843	100750843	6.77	6.15	7.09	3.33	1.98	2.95	0.00	0.00	0.00	0.00	0.00	0.00
3-hydroxybutyrate dehydrogenase type 2	LOC100750844	100750844	25.23	25.94	19.93	31.99	27.91	23.04	135.96	136.34	88.19	141.39	141.79	117.77
olfactory receptor 52Z1-like	LOC100750846	100750846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 12	LOC100750847	100750847	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	3.73	2.32	1.03	1.87
histone H2A type 1	LOC100750854	100750854	0.06	0.11	0.03	0.00	0.03	0.03	2.28	2.75	1.24	0.00	1.03	0.93
chromosome unknown open reading frame, human C20orf96	LOC100750855	100750855	0.15	0.19	0.05	0.05	0.21	0.08	6.84	4.58	1.24	2.32	8.28	3.74

thioredoxin domain-containing protein 17 pseudogene	LOC100750857	100750857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100750858	100750858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin light polypeptide 6-like	LOC100750860	100750860	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100750862	LOC100750862	100750862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100750869	100750869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S20 pseudogene	LOC100750878	100750878	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
anionic trypsin-2-like	LOC100750882	100750882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family A member 12	LOC100750884	100750884	0.09	0.08	0.01	0.01	0.00	0.00	15.95	16.47	1.24	1.16	0.00	0.00
uncharacterized LOC100750885	LOC100750885	100750885	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA desaturase 2	LOC100750890	100750890	12.11	13.00	27.78	26.61	34.86	36.00	1611.74	1733.07	3804.51	3654.07	4782.67	4977.12
olfactory receptor 5AC1-like	LOC100750892	100750892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-3B1-like	LOC100750898	100750898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SAP30-binding protein pseudogene	LOC100750900	100750900	0.06	0.04	0.05	0.05	0.00	0.04	2.28	1.83	1.24	1.16	0.00	0.93
alkaline phosphatase, placental-like	LOC100750903	100750903	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
trace amine-associated receptor 3	LOC100750905	100750905	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100750906	100750906	6.86	8.34	6.01	4.42	6.53	4.16	2.28	0.92	2.48	2.32	4.14	0.93
60S ribosomal protein L19 pseudogene	LOC100750907	100750907	6.67	7.12	3.80	2.82	3.39	3.00	89.63	93.33	47.20	34.77	47.61	39.26
zinc finger protein 42 homolog	LOC100750909	100750909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transcription elongation factor B polypeptide 1 pseudogene	LOC100750911	100750911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibrous sheath-interacting protein 2-like	LOC100750913	100750913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NACHT, LRR and PYD domains-containing protein 9B-like	LOC100750914	100750914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
schlafen family member 12-like	LOC100750921	100750921	0.79	0.82	0.51	0.39	0.55	0.47	12.15	7.32	8.69	4.64	7.24	5.61
speckle-type POZ protein pseudogene	LOC100750922	100750922	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
phosphatidylinositol 4-phosphate 5-kinase type-1 beta	LOC100750926	100750926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-2-like	LOC100750928	100750928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5V1	LOC100750929	100750929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2 pseudogene	LOC100750930	100750930	0.16	0.05	0.11	0.00	0.00	0.13	4.56	0.92	2.48	0.00	0.00	3.74
uncharacterized LOC100750931	LOC100750931	100750931	0.00	0.06	0.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human C8orf33	LOC100750934	100750934	19.80	17.95	20.76	17.68	17.43	17.90	976.01	882.09	1011.06	840.22	801.08	832.79
anaphase-promoting complex subunit 10-like	LOC100750936	100750936	0.06	0.15	0.00	0.00	0.00	0.08	0.76	1.83	0.00	0.00	0.00	0.93
glutathione S-transferase Mu 2	LOC100750937	100750937	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15 pseudogene	LOC100750939	100750939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 40	LOC100750943	100750943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V-type proton ATPase subunit G 1 pseudogene	LOC100750944	100750944	0.00	0.00	0.00	0.00	0.00	0.15	0.76	0.92	0.00	1.16	0.00	1.87
leukocyte immunoglobulin-like receptor subfamily A member 1	LOC100750945	100750945	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100750947	100750947	0.00	0.46	0.00	0.00	0.00	0.16	0.00	2.75	0.00	0.00	0.00	0.93

probable E3 ubiquitin-protein ligase TRIML2 pseudogene	LOC100750949	100750949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100750950	100750950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM127A-like	LOC100750952	100750952	46.45	41.80	40.81	26.49	14.00	17.90	313.69	293.73	252.14	172.68	84.87	100.01
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100750953	100750953	0.88	1.39	0.98	0.69	0.99	0.29	17.47	27.45	17.39	15.07	17.59	5.61
putative gustatory receptor clone PTE01	LOC100750957	100750957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6N1	LOC100750962	100750962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf47	LOC100750967	100750967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100750970	100750970	2.51	3.62	2.93	1.43	3.31	1.71	42.53	66.80	53.41	24.34	60.03	29.91
chromosome unknown open reading frame, human C1orf141	LOC100750986	100750986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
yrdC domain-containing protein, mitochondrial pseudogene	LOC100750988	100750988	0.40	0.28	0.09	0.09	0.16	0.21	5.32	3.66	2.48	1.16	2.07	2.80
transmembrane protein 11, mitochondrial pseudogene	LOC100750996	100750996	5.56	5.16	5.11	3.53	2.01	2.78	82.03	70.46	74.53	48.67	26.91	33.65
40S ribosomal protein S27-like	LOC100750998	100750998	0.00	1.27	0.45	0.46	0.57	0.00	2.28	4.58	2.48	2.32	1.03	0.93
zinc finger protein 420-like	LOC100751006	100751006	3.05	3.36	3.19	4.05	4.01	3.87	221.03	219.61	212.40	259.60	272.20	266.38
dnaJ homolog subfamily C member 14-like	LOC100751007	100751007	0.04	0.07	0.08	0.02	0.04	0.02	2.28	4.58	3.73	1.16	3.10	1.87
cdc42 effector protein 4-like	LOC100751014	100751014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE1-silencing transcription factor pseudogene	LOC100751015	100751015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like protein 15	LOC100751017	100751017	0.06	0.07	0.00	0.00	0.17	0.07	0.76	1.83	0.00	0.00	2.07	0.93
sp110 nuclear body protein-like	LOC100751025	100751025	5.02	5.03	5.56	5.06	4.56	4.71	214.95	213.20	252.14	220.19	207.00	217.78

60S ribosomal protein L18 pseudogene	LOC100751034	100751034	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 10T2	LOC100751035	100751035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative DNA repair and recombination protein RAD26-like	LOC100751043	100751043	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
MLV-related proviral Env polyprotein-like	LOC100751046	100751046	0.99	1.35	1.25	0.47	1.08	0.90	23.55	29.28	26.08	11.59	22.77	17.76
60S ribosomal protein L37a-like	LOC100751047	100751047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
keratin-associated protein 4-2-like	LOC100751049	100751049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9I1-like	LOC100751050	100751050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100751057	100751057	0.04	0.00	0.16	0.00	0.03	0.02	0.76	0.00	1.24	0.00	0.00	0.00
zinc finger protein 431-like	LOC100751059	100751059	0.03	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	1.16	0.00	0.00
thyroid transcription factor 1-associated protein 26-like	LOC100751067	100751067	18.68	19.18	16.86	19.33	19.07	19.09	571.17	590.20	547.76	582.94	584.77	563.61
putative olfactory receptor 5AK3	LOC100751079	100751079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase-like	LOC100751081	100751081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable cation-transporting ATPase 13A5	LOC100751095	100751095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-terminal EF-hand calcium-binding protein 1	LOC100751097	100751097	0.04	0.02	0.00	0.00	0.03	0.00	3.80	1.83	0.00	0.00	1.03	1.87
leukocyte immunoglobulin-like receptor subfamily A member 5	LOC100751100	100751100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100751102	100751102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member E pseudogene	LOC100751105	100751105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3 pseudogene	LOC100751106	100751106	1.45	1.19	0.68	0.53	1.26	0.97	20.51	15.56	12.42	5.79	15.52	14.02

proteasome subunit beta type-3 pseudogene	LOC100751111	100751111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 19-4-like	LOC100751114	100751114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aphrodisin-like	LOC100751116	100751116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC100751117	100751117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf52	LOC100751118	100751118	10.38	10.80	11.30	11.74	13.07	12.12	410.15	418.17	434.73	429.96	460.57	430.88
40S ribosomal protein S27-like	LOC100751121	100751121	0.08	0.00	0.26	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane O-methyltransferase	LOC100751123	100751123	0.13	0.23	0.16	0.23	0.11	0.19	10.63	13.73	9.94	13.91	7.24	13.09
kelch-like protein 7 pseudogene	LOC100751125	100751125	2.28	2.89	2.12	2.35	2.51	2.63	185.33	178.43	176.38	206.29	195.61	235.54
sal-like protein 1 pseudogene	LOC100751128	100751128	1.12	0.98	0.50	0.35	0.22	0.13	108.61	93.33	45.96	34.77	20.70	14.02
tudor and KH domain-containing protein pseudogene	LOC100751129	100751129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 25-like	LOC100751130	100751130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100751132	100751132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100751138	100751138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial pseudogene	LOC100751145	100751145	0.30	0.36	0.36	0.28	0.49	0.35	9.11	11.90	11.18	9.27	15.52	9.35
synaptobrevin homolog YKT6-like	LOC100751147	100751147	0.13	0.00	0.00	0.10	0.09	0.20	2.28	0.92	0.00	2.32	3.10	3.74
histone H2B type 1	LOC100751148	100751148	6.97	6.09	6.93	3.40	2.22	2.83	2.28	0.00	0.00	0.00	0.00	0.00
immunoglobulin omega chain-like	LOC100751150	100751150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100751152	100751152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform pseudogene	LOC100751160	100751160	0.66	0.53	0.25	0.42	0.58	0.46	28.86	23.79	11.18	16.22	25.87	19.63
olfactory receptor 10AG1-like	LOC100751163	100751163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1 pseudogene	LOC100751165	100751165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18a pseudogene	LOC100751167	100751167	0.08	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
prohibitin pseudogene	LOC100751168	100751168	2.57	1.21	0.92	0.59	0.89	0.80	47.85	24.71	16.15	10.43	16.56	15.89
60S acidic ribosomal protein P1	LOC100751171	100751171	31.00	52.15	42.50	31.33	21.04	16.27	186.85	250.72	223.58	129.80	47.61	55.15
aflatoxin B1 aldehyde reductase member 3-like	LOC100751175	100751175	0.10	0.03	0.08	0.11	0.00	0.09	3.04	0.92	2.48	3.48	0.00	2.80
DBH-like monooxygenase protein 2	LOC100751176	100751176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prohibitin pseudogene	LOC100751177	100751177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCCH domain-containing protein 15 pseudogene	LOC100751179	100751179	9.36	9.48	7.51	7.82	7.67	6.56	34.94	39.35	33.54	20.86	27.94	15.89
mitochondrial import inner membrane translocase subunit Tim23-like	LOC100751182	100751182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA desaturase 1	LOC100751184	100751184	4.06	4.41	5.89	5.16	5.46	5.20	37.98	50.33	44.72	32.45	50.71	31.78
olfactory receptor 5AC1-like	LOC100751186	100751186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-binding protein GGA2-like	LOC100751188	100751188	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
ral guanine nucleotide dissociation stimulator-like	LOC100751191	100751191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
eukaryotic translation elongation factor 1 epsilon-1 pseudogene	LOC100751195	100751195	23.41	25.97	25.16	23.39	24.70	22.59	353.19	402.61	390.02	349.99	374.67	339.29
intestinal-type alkaline phosphatase	LOC100751196	100751196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trace amine-associated receptor 4	LOC100751198	100751198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PRAME family member 5-like	LOC100751199	100751199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 157-like	LOC100751201	100751201	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
pyridoxal kinase-like	LOC100751202	100751202	11.04	10.79	7.79	6.50	5.33	6.28	12.91	13.73	9.94	9.27	3.10	5.61
chromosome unknown open reading frame, human C16orf93	LOC100751203	100751203	1.57	2.02	2.28	1.91	1.46	1.93	73.68	91.50	101.85	83.44	69.34	83.19
uncharacterized protein C2orf78 homolog	LOC100751207	100751207	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.92	0.00	0.00	2.07	0.00
chromosome unknown open reading frame, human C1orf177	LOC100751212	100751212	0.00	0.00	0.00	0.04	0.07	0.00	0.00	0.00	0.00	1.16	2.07	0.00
speckle-type POZ protein-like	LOC100751214	100751214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751217	LOC100751217	100751217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
suppressor of cytokine signaling 1-like	LOC100751218	100751218	2.64	2.36	2.58	1.64	1.31	1.04	75.95	70.46	74.53	46.36	36.22	28.97
chromosome unknown open reading frame, human C1orf158	LOC100751219	100751219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-12	LOC100751221	100751221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5V1	LOC100751222	100751222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 3 pseudogene	LOC100751223	100751223	0.14	0.04	0.12	0.00	0.15	0.18	0.76	0.92	1.24	0.00	2.07	1.87
pancreatic triacylglycerol lipase-like	LOC100751227	100751227	0.00	0.00	0.00	0.00	0.00	0.00	2.28	3.66	8.69	8.11	5.17	3.74
prostatic steroid-binding protein C1-like	LOC100751230	100751230	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
multifunctional protein ADE2 pseudogene	LOC100751231	100751231	1.48	1.27	1.31	1.07	1.03	0.68	22.79	18.30	26.08	20.86	15.52	24.30
speckle-type POZ protein pseudogene	LOC100751233	100751233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat protein 30A1	LOC100751235	100751235	0.92	0.89	0.94	0.87	0.98	0.97	9.11	7.32	12.42	11.59	8.28	6.54

nucleoporin SEH1 pseudogene	LOC100751237	100751237	0.22	0.32	0.31	0.28	0.25	0.25	1.52	3.66	2.48	3.48	4.14	2.80
bile salt sulfotransferase 1-like	LOC100751240	100751240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf180	LOC100751241	100751241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L3-like	LOC100751242	100751242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26S protease regulatory subunit 4 pseudogene	LOC100751245	100751245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7D4-like	LOC100751251	100751251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beclin-2-like	LOC100751252	100751252	0.05	0.03	0.11	0.03	0.16	0.11	3.80	2.75	4.97	2.32	7.24	5.61
adenylate kinase 4, mitochondrial pseudogene	LOC100751253	100751253	0.34	0.09	0.13	0.12	0.11	0.33	4.56	3.66	1.24	1.16	1.03	4.67
olfactory receptor 6N2	LOC100751255	100751255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 248-like	LOC100751259	100751259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
cytochrome b5 type B-like	LOC100751261	100751261	23.12	21.72	16.12	16.89	15.01	20.46	176.21	162.88	121.72	124.00	112.81	151.42
nucleophosmin pseudogene	LOC100751264	100751264	0.22	0.07	0.05	0.14	0.18	0.26	6.08	0.92	1.24	2.32	5.17	4.67
intercellular adhesion molecule 2-like	LOC100751267	100751267	0.46	0.47	0.19	0.27	0.21	0.19	35.70	37.52	16.15	16.22	16.56	14.95
cytochrome P450 1A1	LOC100751269	100751269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial	LOC100751280	100751280	0.04	0.02	0.00	0.02	0.00	0.03	3.04	1.83	1.24	1.16	0.00	1.87
olfactory receptor 7C2	LOC100751281	100751281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative dimethylaniline monooxygenase [N-oxide-forming] 6	LOC100751286	100751286	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
poly [ADP-ribose] polymerase 2 pseudogene	LOC100751288	100751288	0.06	0.19	0.11	0.08	0.09	0.02	2.28	6.41	4.97	3.48	4.14	0.93

T-cell ecto-ADP-ribosyltransferase 1-like	LOC100751294	100751294	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 383-like	LOC100751297	100751297	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100751298	100751298	0.00	0.00	0.00	0.05	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
zinc finger protein 58-like	LOC100751304	100751304	3.27	2.91	3.82	4.44	4.81	4.75	331.92	332.16	392.50	445.03	492.65	491.64
40S ribosomal protein S14 pseudogene	LOC100751306	100751306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
barrier-to-autointegration factor-like	LOC100751307	100751307	18.03	13.65	11.68	10.74	9.49	11.84	253.69	298.30	224.82	200.49	114.88	157.02
uncharacterized LOC100751308	LOC100751308	100751308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PDZ domain-containing protein 7-like	LOC100751311	100751311	0.18	0.25	0.27	0.28	0.20	0.23	15.19	11.90	14.91	12.75	13.45	11.22
nuclear body protein SP140-like protein	LOC100751314	100751314	0.06	0.03	0.03	0.03	0.00	0.02	3.04	0.92	1.24	1.16	0.00	0.93
probable hydrolase PNKD	LOC100751315	100751315	32.29	30.70	34.60	31.48	25.50	31.11	559.78	541.70	611.11	520.36	385.01	469.20
sperm motility kinase X-like	LOC100751316	100751316	0.04	0.10	0.00	0.00	0.07	0.05	0.00	0.92	0.00	0.00	1.03	0.00
annexin A7 pseudogene	LOC100751323	100751323	0.06	0.08	0.00	0.07	0.03	0.00	2.28	2.75	0.00	2.32	1.03	0.00
UDP-glucuronosyltransferase 2B4-like	LOC100751325	100751325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cofilin-1-like	LOC100751327	100751327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bile salt sulfotransferase 1-like	LOC100751331	100751331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 5-like	LOC100751333	100751333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 134-like	LOC100751335	100751335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751337	LOC100751337	100751337	2.54	1.93	1.80	2.41	3.13	3.53	126.84	96.08	103.09	127.48	155.25	170.11

keratin-associated protein 10-7-like	LOC100751340	100751340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement factor H-related protein 2-like	LOC100751341	100751341	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.03	0.00
FUN14 domain-containing protein 1 pseudogene	LOC100751342	100751342	0.18	0.00	0.15	0.00	0.13	0.06	1.52	0.00	1.24	0.00	1.03	0.00
melanoma-associated antigen 10-like	LOC100751350	100751350	0.49	0.72	0.40	0.45	0.37	0.22	0.00	0.00	0.00	0.00	0.00	0.00
nebulette-like	LOC100751354	100751354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D2	LOC100751363	100751363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bile acid receptor-like	LOC100751364	100751364	0.11	0.19	0.58	0.71	1.14	1.08	9.87	12.81	47.20	53.31	94.18	79.45
etoposide-induced protein 2.4 homolog pseudogene	LOC100751366	100751366	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.92	0.00	0.00	0.00	1.87
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100751368	100751368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5G3-like	LOC100751371	100751371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52 kDa repressor of the inhibitor of the protein kinase-like	LOC100751373	100751373	0.87	1.15	1.23	0.92	0.87	1.00	43.29	51.24	63.35	59.10	53.82	56.08
left-right determination factor 1	LOC100751377	100751377	0.18	0.17	0.17	0.14	0.10	0.09	22.79	17.39	17.39	15.07	8.28	10.28
popy Class I histocompatibility antigen, A-1 alpha chain-like	LOC100751378	100751378	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase F(0) complex subunit B1, mitochondrial pseudogene	LOC100751380	100751380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-3B1-like	LOC100751386	100751386	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-gamma pseudogene	LOC100751389	100751389	1.57	1.68	1.21	0.87	1.17	1.30	51.65	55.82	40.99	27.81	39.33	41.13
Insulin receptor substrate 1	LOC100751390	100751390	0.34	0.26	0.40	0.45	0.45	0.48	25.82	24.71	37.26	49.83	39.33	47.67
schlafen family member 12-like	LOC100751393	100751393	53.07	52.53	31.78	34.68	35.63	38.62	3520.46	3488.11	2130.18	2296.98	2341.14	2557.26

importin subunit alpha-8-like	LOC100751395	100751395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme A-like	LOC100751397	100751397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit alpha type-3 pseudogene	LOC100751403	100751403	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.92	1.24	0.00	0.00	0.93
kxDL motif-containing protein 1 pseudogene	LOC100751404	100751404	0.11	0.13	0.32	0.04	0.15	0.14	0.76	1.83	3.73	0.00	2.07	1.87
outer dense fiber protein 1-like	LOC100751407	100751407	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
Ig heavy chain V region 5A-like	LOC100751409	100751409	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L9 pseudogene	LOC100751413	100751413	0.79	0.81	0.65	0.00	0.74	0.70	11.39	10.07	8.69	0.00	8.28	10.28
40S ribosomal protein SA pseudogene	LOC100751424	100751424	0.00	0.00	0.20	0.06	0.00	0.00	0.00	0.00	4.97	1.16	0.00	0.00
dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 4-like	LOC100751425	100751425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S-adenosyl-L-methionine-dependent tRNA 4-demethylwyosine synthase-like	LOC100751426	100751426	9.42	8.40	11.47	13.23	10.21	11.51	202.04	172.94	243.45	268.87	211.14	237.41
uncharacterized LOC100751430	LOC100751430	100751430	0.20	0.12	0.00	0.00	0.18	0.20	6.84	2.75	2.48	1.16	5.17	5.61
olfactory receptor 2AG1	LOC100751431	100751431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microtubule-associated protein 4 pseudogene	LOC100751433	100751433	27.32	26.54	23.51	25.45	35.43	31.36	0.00	0.00	0.00	0.00	0.00	0.00
meiotic nuclear division protein 1 homolog pseudogene	LOC100751437	100751437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.87
histone H2B type 1	LOC100751440	100751440	1.92	3.13	1.61	0.64	0.77	0.68	0.00	4.58	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC100751443	100751443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100751444	100751444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751446	LOC100751446	100751446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sperm motility kinase 2B-like	LOC100751450	100751450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
tubulin gamma-2 chain	LOC100751452	100751452	7.88	8.02	6.07	4.40	2.05	2.22	47.85	41.18	38.50	28.97	1.03	1.87
olfactory receptor 10AG1-like	LOC100751455	100751455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 kDa heat shock protein, mitochondrial pseudogene	LOC100751460	100751460	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
aflatoxin B1 aldehyde reductase member 3-like	LOC100751467	100751467	0.48	0.49	0.80	0.75	0.40	0.36	25.06	21.96	38.50	31.29	20.70	26.17
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100751473	100751473	0.09	0.11	0.15	0.14	0.25	0.34	2.28	0.92	1.24	1.16	2.07	6.54
olfactory receptor 5AC1-like	LOC100751478	100751478	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100751481	100751481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100751485	100751485	2.37	2.51	2.22	2.03	2.39	1.94	27.34	15.56	19.87	18.54	21.73	10.28
paired immunoglobulin-like type 2 receptor beta	LOC100751486	100751486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751490	LOC100751490	100751490	0.00	0.00	0.00	0.00	0.00	0.07	1.52	0.92	0.00	0.00	0.00	1.87
cytochrome P450 2C26-like	LOC100751491	100751491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751494	LOC100751494	100751494	5.23	4.79	5.40	4.75	4.56	5.85	185.33	170.20	187.56	171.52	158.35	201.89
cation channel sperm-associated protein subunit beta-like	LOC100751495	100751495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAM-binding protein-like	LOC100751498	100751498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cytochrome c oxidase assembly protein COX15 homolog	LOC100751499	100751499	60.65	58.90	61.89	58.56	60.86	61.04	2748.01	2710.33	2823.26	2711.87	2834.83	2892.80
protein-lysine methyltransferase METTL21C	LOC100751500	100751500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100751508	100751508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PRAME family member 20/21-like	LOC100751513	100751513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tRNA wybutosine-synthesizing protein 5-like	LOC100751516	100751516	0.11	0.00	0.00	0.00	0.07	0.00	1.52	0.00	0.00	0.00	1.03	0.00
cysteine sulfinic acid decarboxylase	LOC100751520	100751520	22.45	22.52	29.54	28.77	25.90	29.12	682.07	700.00	884.37	855.28	782.45	851.48
chromosome unknown open reading frame, human C10orf120	LOC100751521	100751521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100751526	100751526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100751527	100751527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat protein 30A2	LOC100751528	100751528	1.62	1.73	1.98	1.83	2.01	2.05	12.91	16.47	17.39	19.70	17.59	18.69
olfactory receptor 688	LOC100751530	100751530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C2orf78 homolog	LOC100751533	100751533	0.10	0.15	0.07	0.09	0.12	0.04	6.08	10.07	4.97	4.64	7.24	8.41
inverted formin-2	LOC100751534	100751534	19.19	19.80	17.28	14.77	13.11	14.25	1705.17	1752.29	1537.70	1303.78	1182.99	1270.22
U3 small nucleolar RNA-associated protein 14 homolog A-like	LOC100751535	100751535	5.35	5.67	4.78	4.62	3.98	4.09	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2-like	LOC100751538	100751538	0.05	0.00	0.00	0.14	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
60S ribosomal protein L30 pseudogene	LOC100751543	100751543	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00
olfactory receptor 7E24-like	LOC100751544	100751544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inhibitor of Bruton tyrosine kinase	LOC100751546	100751546	25.67	26.44	14.61	16.51	19.36	17.30	2995.62	3074.51	1750.10	1953.94	2224.19	2049.73
olfactory receptor 6N1	LOC100751548	100751548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b561 domain-containing protein 2	LOC100751550	100751550	6.35	5.86	7.04	5.36	4.62	4.73	293.18	278.17	319.22	245.69	204.93	225.26
60S ribosomal protein L30 pseudogene	LOC100751552	100751552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C1orf21	LOC100751554	100751554	10.35	11.01	11.09	11.45	15.58	14.09	851.44	916.86	906.72	930.61	1243.02	1126.28
SNRPN upstream reading frame protein pseudogene	LOC100751555	100751555	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.00
cytochrome c oxidase subunit 7B, mitochondrial pseudogene	LOC100751557	100751557	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	1.16	1.03	1.87
coiled-coil domain-containing protein 47	LOC100751560	100751560	87.75	86.07	91.88	102.32	99.99	95.55	2724.47	2688.37	2876.67	3159.22	3141.18	2976.92
coiled-coil domain-containing protein 47 pseudogene	LOC100751567	100751567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T6	LOC100751570	100751570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf105	LOC100751574	100751574	0.12	0.07	0.00	0.00	0.00	0.07	2.28	2.75	0.00	0.00	1.03	4.67
dimethylaniline monooxygenase [N-oxide-forming] 3	LOC100751580	100751580	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
beta-galactosidase-1-like protein 2	LOC100751583	100751583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sterol 26-hydroxylase, mitochondrial	LOC100751584	100751584	0.02	0.00	0.00	0.00	0.02	0.00	2.28	0.92	0.00	0.00	1.03	0.00
chromosome unknown open reading frame, human C11orf83	LOC100751590	100751590	31.06	29.97	26.20	11.87	4.98	4.87	391.92	381.57	339.09	180.79	89.01	84.12
vomeronasal type-1 receptor 4-like	LOC100751592	100751592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2J5-like	LOC100751593	100751593	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 58-like	LOC100751600	100751600	2.27	1.83	2.49	2.99	3.27	3.17	152.67	127.19	168.92	206.29	215.28	214.97
eukaryotic translation initiation factor 1 pseudogene	LOC100751604	100751604	1.84	0.35	1.21	0.47	0.41	1.13	8.35	0.92	6.21	1.16	2.07	5.61
uncharacterized LOC100751607	LOC100751607	100751607	2.47	2.10	0.85	0.86	3.22	3.71	41.02	37.52	34.78	41.72	49.68	48.60
nuclear body protein SP140-like protein	LOC100751610	100751610	0.16	0.25	0.24	0.07	0.07	0.03	3.80	8.24	6.21	4.64	2.07	0.93
induced myeloid leukemia cell differentiation protein Mcl-1 homolog	LOC100751612	100751612	5.78	4.91	4.16	2.61	2.92	2.78	72.16	59.48	63.35	33.61	32.08	30.84

60S ribosomal protein L7 pseudogene	LOC100751613	100751613	2.15	3.01	3.30	2.01	2.87	1.57	28.86	41.18	42.23	23.18	35.19	18.69
cell division cycle 5-like protein pseudogene	LOC100751614	100751614	0.04	0.05	0.11	0.05	0.11	0.11	1.52	1.83	6.21	2.32	4.14	6.54
40S ribosomal protein S28 pseudogene	LOC100751615	100751615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis-associated protein 7 homolog	LOC100751616	100751616	5.57	5.59	4.68	5.51	5.56	4.59	205.08	199.48	173.89	208.61	215.28	169.18
protein SET-like	LOC100751617	100751617	3.03	2.93	2.71	2.35	2.21	1.97	65.32	59.48	63.35	63.74	47.61	56.08
secreted seminal-vesicle Ly-6 protein 1-like	LOC100751623	100751623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bile salt sulfotransferase 1-like	LOC100751624	100751624	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
RNA-binding protein PNO1 pseudogene	LOC100751626	100751626	0.19	0.20	0.16	0.00	0.02	0.08	4.56	4.58	3.73	0.00	0.00	1.87
high mobility group protein B1 pseudogene	LOC100751631	100751631	14.78	18.03	13.63	14.98	14.77	14.98	246.09	300.13	234.75	282.78	223.56	257.03
40S ribosomal protein SA pseudogene	LOC100751634	100751634	118.42	129.58	138.42	129.86	73.24	90.38	6232.78	6763.01	7507.17	6699.72	5381.93	5529.51
C-type lectin domain family 2 member H-like	LOC100751635	100751635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 183	LOC100751637	100751637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2B17-like	LOC100751639	100751639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger MYM-type protein 5 pseudogene	LOC100751643	100751643	0.13	0.22	0.20	0.07	0.20	0.16	6.08	7.32	4.97	3.48	4.14	2.80
60S ribosomal protein L9 pseudogene	LOC100751651	100751651	1.34	1.14	1.00	0.65	1.31	0.93	3.80	3.66	2.48	3.48	6.21	2.80
protein FAM205A-like	LOC100751656	100751656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100751657	100751657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L23a-like	LOC100751658	100751658	0.00	0.36	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.93

olfactory receptor 1038-like	LOC100751660	100751660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
saoe class I histocompatibility antigen, A alpha chain-like	LOC100751667	100751667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-lactate dehydrogenase C chain-like	LOC100751672	100751672	3.11	3.54	0.36	0.60	0.10	0.12	114.69	118.95	12.42	20.86	4.14	4.67
proteasome subunit beta type-3 pseudogene	LOC100751673	100751673	0.47	1.00	0.39	0.00	0.17	0.15	3.04	6.41	2.48	0.00	1.03	0.93
prolactin-like	LOC100751675	100751675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1537-like	LOC100751683	100751683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein 9-like	LOC100751685	100751685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain 1 pseudogene	LOC100751687	100751687	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100751690	100751690	0.24	0.12	0.17	0.16	0.05	0.05	6.08	2.75	3.73	3.48	1.03	0.93
caspase-3-like	LOC100751691	100751691	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
60S ribosomal protein L17 pseudogene	LOC100751693	100751693	0.46	0.49	0.24	0.50	0.51	0.03	3.80	5.49	2.48	3.48	5.17	0.00
histone-binding protein RBBP4 pseudogene	LOC100751697	100751697	0.23	0.38	0.06	0.14	0.23	0.20	12.91	17.39	3.73	8.11	12.42	12.15
secreted and transmembrane protein 1b-like	LOC100751701	100751701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 162	LOC100751702	100751702	0.11	0.07	0.02	0.06	0.02	0.08	18.99	20.13	17.39	10.43	17.59	13.09
guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 pseudogene	LOC100751704	100751704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751705	LOC100751705	100751705	0.00	0.03	0.00	0.00	0.00	0.00	37.98	30.20	12.42	3.48	1.03	5.61
paired mesoderm homeobox protein 2B	LOC100751707	100751707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100751709	100751709	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

tetratricopeptide repeat protein 1-like	LOC100751710	100751710	0.14	0.11	0.12	0.05	0.10	0.13	3.04	1.83	3.73	1.16	1.03	3.74
chromosome unknown open reading frame, human C15orf43	LOC100751713	100751713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
nuclear receptor subfamily 1 group D member 1-like	LOC100751718	100751718	18.11	17.84	16.50	15.79	11.68	12.90	194.44	227.84	195.01	193.54	120.06	134.59
histone H2A type 1	LOC100751726	100751726	0.31	0.08	0.04	0.00	0.07	0.00	4.56	0.00	0.00	0.00	2.07	0.00
DNA (cytosine-5)-methyltransferase 3B	LOC100751727	100751727	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100751730	100751730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1 pseudogene	LOC100751731	100751731	3.42	4.54	3.41	2.42	4.35	1.73	4.56	2.75	2.48	0.00	1.03	0.00
taste receptor type 2 member 16	LOC100751741	100751741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RING finger protein 113A	LOC100751742	100751742	15.22	15.83	17.28	14.31	14.01	14.55	577.25	602.09	663.27	541.22	531.98	555.19
olfactory receptor 5I1	LOC100751743	100751743	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751747	LOC100751747	100751747	0.16	0.07	0.16	0.18	0.06	0.00	3.80	3.66	3.73	6.95	1.03	1.87
ADP/ATP translocase 1 pseudogene	LOC100751751	100751751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynactin subunit 5 pseudogene	LOC100751754	100751754	0.28	0.77	0.23	0.45	0.39	0.98	3.04	8.24	2.48	4.64	4.14	10.28
aflatoxin B1 aldehyde reductase member 2	LOC100751755	100751755	24.77	24.37	30.44	25.57	13.04	13.89	847.65	867.45	1085.58	892.37	468.85	475.75
probable inactive serine protease 58	LOC100751756	100751756	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751758	LOC100751758	100751758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C23-like	LOC100751762	100751762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 187-like	LOC100751765	100751765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cytochrome P450 3A31-like	LOC100751769	100751769	0.03	0.00	0.05	0.14	0.21	0.11	2.28	1.83	1.24	11.59	13.45	9.35
paired immunoglobulin-like type 2 receptor beta	LOC100751773	100751773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
intestinal-type alkaline phosphatase 1	LOC100751774	100751774	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26	LOC100751778	100751778	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 6A	LOC100751786	100751786	0.02	0.04	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
uncharacterized LOC100751789	LOC100751789	100751789	2.75	2.77	1.26	1.09	1.49	1.84	45.57	42.09	19.87	11.59	26.91	23.37
chromosome unknown open reading frame, human C12orf49	LOC100751796	100751796	12.39	12.16	12.90	12.65	13.69	14.52	1822.89	1798.96	1922.75	1854.27	1988.21	2140.39
UDP-glucuronosyltransferase 2B31-like	LOC100751798	100751798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative uncharacterized protein	LOC100751802	100751802	0.02	0.02	0.00	0.00	0.00	0.00	3.04	1.83	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf27	LOC100751804	100751804	10.91	11.11	10.74	13.19	13.73	13.02	988.92	1024.84	958.89	1222.66	1258.54	1162.73
olfactory receptor 5V1	LOC100751806	100751806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calmodulin-like	LOC100751814	100751814	22.42	21.14	19.57	21.31	16.31	22.28	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC100751817	100751817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100751818	100751818	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tetratricopeptide repeat protein 30B	LOC100751819	100751819	3.85	4.33	4.02	4.09	4.48	4.64	234.70	261.70	243.45	244.53	259.78	278.53
olfactory receptor 2J3-like	LOC100751826	100751826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100751834	100751834	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100751837	LOC100751837	100751837	12.66	12.83	13.24	13.14	15.39	15.44	781.57	789.67	817.29	813.56	948.05	958.04

olfactory receptor 6K3	LOC100751839	100751839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyadenylate-binding protein 1	LOC100751841	100751841	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
small nuclear ribonucleoprotein-associated protein N-like	LOC100751844	100751844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
SUMO-conjugating enzyme UBC9-B pseudogene	LOC100751845	100751845	35.15	33.63	45.74	48.86	55.94	57.04	395.72	384.31	495.59	489.06	571.31	576.69
cytochrome c, somatic pseudogene	LOC100751857	100751857	140.88	139.58	141.07	123.68	126.93	124.75	751.18	732.94	725.38	622.34	639.62	611.27
olfactory receptor 1I1	LOC100751862	100751862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100751869	100751869	7.52	5.69	4.86	3.59	4.59	4.78	164.06	124.44	108.06	71.85	90.04	97.21
olfactory receptor 11G2	LOC100751879	100751879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100751881	100751881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 1 pseudogene	LOC100751883	100751883	4.96	6.32	3.71	2.50	2.81	1.62	69.12	85.10	43.47	32.45	35.19	21.50
androglobin-like	LOC100751887	100751887	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
eukaryotic initiation factor 4A-III-like	LOC100751889	100751889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative RNA exonuclease NEF-sp	LOC100751890	100751890	4.31	4.23	5.20	5.18	4.95	4.77	369.90	361.44	428.52	439.23	424.34	421.54
60S ribosomal protein L10-like	LOC100751893	100751893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nicotinamide riboside kinase 1	LOC100751894	100751894	8.32	8.75	8.07	8.05	11.56	10.83	231.66	237.91	208.67	194.70	260.82	236.47
olfactory receptor 4K1	LOC100751895	100751895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sialic acid-binding Ig-like lectin 5	LOC100751896	100751896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52B2	LOC100751899	100751899	0.00	0.00	0.00	0.05	0.05	0.08	0.00	0.00	0.00	1.16	1.03	1.87

sepiapterin reductase-like	LOC100751901	100751901	2.35	2.00	2.62	0.87	1.63	2.61	24.31	27.45	42.23	25.50	34.15	42.06
olfactory receptor 14J1-like	LOC100751903	100751903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol sulfotransferase A-like	LOC100751913	100751913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
zinc finger protein 431-like	LOC100751918	100751918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100751923	100751923	10.01	13.19	11.57	7.84	9.78	5.54	80.51	95.16	91.91	59.10	70.38	43.93
granzyme-like protein 2	LOC100751926	100751926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100751931	100751931	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S18 pseudogene	LOC100751935	100751935	0.65	1.23	0.73	0.85	0.62	0.17	31.14	46.67	32.29	11.59	5.17	0.93
serpin B4-like	LOC100751936	100751936	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
olfactory receptor 1044	LOC100751946	100751946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable G-protein coupled receptor 83	LOC100751949	100751949	0.02	0.00	0.00	0.00	0.00	0.00	5.32	1.83	0.00	1.16	1.03	2.80
translationally-controlled tumor protein pseudogene	LOC100751950	100751950	3.47	2.33	2.68	2.18	1.87	1.60	46.33	37.52	38.50	28.97	22.77	17.76
left-right determination factor 2	LOC100751951	100751951	0.08	0.02	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	1.03	0.00
DNA-directed RNA polymerase III subunit RPC10 pseudogene	LOC100751952	100751952	0.65	0.59	0.46	0.27	0.38	0.28	2.28	2.75	0.00	1.16	1.03	0.93
HLA class I histocompatibility antigen, A-36 alpha chain-like	LOC100751953	100751953	0.04	0.00	0.02	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93
60S ribosomal protein L11-like	LOC100751955	100751955	0.13	0.16	0.33	0.11	0.05	0.00	2.28	1.83	3.73	1.16	0.00	0.00
prolactin-6A1-like	LOC100751961	100751961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L30-like	LOC100751966	100751966	14.20	17.19	17.83	23.23	17.92	16.92	80.51	81.44	79.49	107.78	84.87	84.12

olfactory receptor 150-like	LOC100751968	100751968	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-structural maintenance of chromosomes element 1 homolog pseudogene	LOC100751970	100751970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AG1	LOC100751973	100751973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein-like	LOC100751975	100751975	0.00	0.02	0.00	0.09	0.00	0.02	0.00	0.92	0.00	3.48	0.00	0.93
eukaryotic translation initiation factor 4E pseudogene	LOC100751976	100751976	0.19	0.47	0.00	0.26	0.15	0.10	2.28	5.49	0.00	3.48	2.07	1.87
60 kDa heat shock protein, mitochondrial-like	LOC100751980	100751980	0.33	0.40	0.22	0.21	0.81	0.11	8.35	9.15	2.48	4.64	13.45	6.54
keratin-associated protein 6-3-like	LOC100751981	100751981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 2	LOC100751982	100751982	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secreted and transmembrane protein 1A-like	LOC100751987	100751987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100751996	100751996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L30-like	LOC100752001	100752001	0.61	0.13	0.09	0.17	0.00	0.13	3.80	0.92	0.00	1.16	0.00	0.93
histone H2B subacrosomal variant	LOC100752003	100752003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PI-PLC X domain-containing protein 1-like	LOC100752008	100752008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.93
histone H2B type 1	LOC100752010	100752010	54.85	54.31	54.55	32.72	39.53	37.56	1019.30	1007.45	1012.30	616.55	770.03	736.52
olfactory receptor 2A12-like	LOC100752013	100752013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein slowmo homolog 2 pseudogene	LOC100752025	100752025	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100752029	100752029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trypsin V-A-like	LOC100752043	100752043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100752045	LOC100752045	100752045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 21-like	LOC100752049	100752049	0.00	0.00	0.03	0.00	0.02	0.02	3.80	0.00	3.73	0.00	1.03	0.93
olfactory receptor 5K3-like	LOC100752051	100752051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100752053	100752053	84.96	84.91	73.69	59.64	66.67	54.00	386.61	270.85	218.61	134.43	139.72	170.11
trace amine-associated receptor 7a	LOC100752062	100752062	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26	LOC100752064	100752064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29	LOC100752071	100752071	2515.49	2608.66	2430.73	1315.30	962.71	936.74	8592.67	8731.25	7815.21	3906.72	3035.61	2913.37
heterogeneous nuclear ribonucleoproteins A2/B1 pseudogene	LOC100752073	100752073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opioid growth factor receptor pseudogene	LOC100752086	100752086	0.41	0.70	0.33	0.09	0.08	0.25	6.08	11.90	4.97	1.16	1.03	3.74
60S ribosomal protein L27 pseudogene	LOC100752087	100752087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-II region SESS-like	LOC100752095	100752095	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 2G3	LOC100752097	100752097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TD and POZ domain-containing protein 5-like	LOC100752100	100752100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM domain transcription factor LMO4	LOC100752101	100752101	12.93	11.82	4.91	3.39	2.41	2.21	93.42	78.69	34.78	25.50	20.70	14.95
Krueppel-like factor 10 pseudogene	LOC100752104	100752104	0.03	0.03	0.00	0.07	0.06	0.00	0.76	0.92	0.00	2.32	2.07	0.00
uncharacterized LOC100752107	LOC100752107	100752107	1.18	1.08	0.00	0.13	0.32	0.30	36.46	32.03	0.00	3.48	9.31	9.35
apolipoprotein L6-like	LOC100752109	100752109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-14 pseudogene	LOC100752110	100752110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

probable UDP-sugar transporter protein SLC35A4	LOC100752111	100752111	4.46	4.60	5.68	4.44	4.01	3.67	65.32	61.31	85.70	59.10	57.96	53.28
chromosome unknown open reading frame, human CXorf23	LOC100752113	100752113	11.36	11.51	12.76	13.12	15.27	14.01	811.19	841.83	907.97	936.41	1114.68	1043.09
olfactory receptor 7E24-like	LOC100752114	100752114	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
histone H3.3C-like	LOC100752116	100752116	0.61	0.97	1.01	0.74	1.07	0.71	12.15	11.90	14.91	9.27	9.31	4.67
chromosome unknown open reading frame, human C6orf118	LOC100752122	100752122	0.23	0.12	0.13	0.15	0.18	0.12	11.39	7.32	7.45	6.95	10.35	9.35
anaphase-promoting complex subunit 15-like	LOC100752128	100752128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase A2	LOC100752137	100752137	0.44	0.92	0.20	0.19	0.39	0.40	9.11	21.05	4.97	4.64	7.24	10.28
olfactory receptor 2T1	LOC100752140	100752140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15 pseudogene	LOC100752142	100752142	73.25	73.59	67.43	58.93	68.82	56.95	50.13	68.63	45.96	35.93	58.99	28.97
ATP synthase subunit g, mitochondrial pseudogene	LOC100752151	100752151	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human C11orf82	LOC100752154	100752154	1.45	1.62	1.39	1.50	1.80	1.58	225.58	252.55	217.37	231.78	276.34	247.69
olfactory receptor 11G2	LOC100752163	100752163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100752165	100752165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peroxisomal biogenesis factor 3-like	LOC100752166	100752166	0.21	0.40	0.32	0.30	0.44	0.26	5.32	10.07	4.97	5.79	10.35	7.48
chromosome unknown open reading frame, human C19orf12	LOC100752167	100752167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D4 pseudogene	LOC100752171	100752171	0.67	0.57	0.41	0.31	0.23	0.14	5.32	7.32	2.48	5.79	4.14	2.80
zinc finger protein 728-like	LOC100752174	100752174	0.08	0.13	0.11	0.13	0.23	0.44	6.84	9.15	7.45	6.95	16.56	29.91
UV radiation resistance-associated gene protein pseudogene	LOC100752177	100752177	0.06	0.10	0.11	0.02	0.04	0.08	3.04	5.49	4.97	1.16	2.07	3.74

olfactory receptor 4K15	LOC100752180	100752180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52W1	LOC100752183	100752183	0.00	0.04	0.00	0.00	0.04	0.04	0.00	0.92	0.00	0.00	1.03	0.93
sperm motility kinase X-like	LOC100752185	100752185	0.08	0.05	0.14	0.17	0.22	0.08	2.28	0.92	3.73	3.48	7.24	1.87
putative zinc finger protein 724	LOC100752187	100752187	0.77	0.85	1.00	0.81	1.22	0.71	44.05	49.41	55.89	42.88	77.62	45.80
ferritin heavy chain pseudogene	LOC100752189	100752189	0.44	0.45	0.49	0.00	0.10	0.56	4.56	4.58	4.97	0.00	1.03	5.61
kelch repeat and BTB domain-containing protein 6-like	LOC100752191	100752191	3.94	4.61	5.97	5.74	9.08	7.88	167.10	205.88	247.18	232.94	367.42	313.11
protein archease pseudogene	LOC100752194	100752194	0.08	0.00	0.00	0.00	0.11	0.00	1.52	0.00	0.00	0.00	1.03	0.00
	LOC100752199	100752199	37.19	37.41	38.59	38.02	36.28	40.10	1840.36	1873.07	1925.23	1887.88	1796.74	1976.83
small RNA 2'-O-methyltransferase	LOC100752202	100752202	1.42	1.07	1.13	1.75	1.73	1.59	41.02	40.26	38.50	49.83	47.61	49.54
60S ribosomal protein L21 pseudogene	LOC100752203	100752203	0.53	0.40	0.50	0.11	0.56	0.25	3.04	2.75	2.48	0.00	2.07	0.93
phospholipase A2-like	LOC100752205	100752205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15-like	LOC100752208	100752208	1.09	0.74	0.46	0.26	0.54	0.49	12.91	10.98	7.45	4.64	10.35	7.48
TP53-regulated inhibitor of apoptosis 1 pseudogene	LOC100752209	100752209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100752210	100752210	0.07	0.09	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
NADH-cytochrome b5 reductase 1	LOC100752211	100752211	152.22	149.70	175.12	173.07	187.30	190.60	6706.73	6570.86	7707.15	7487.78	8116.36	8308.28
olfactory receptor 8B3-like	LOC100752212	100752212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100752215	100752215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger and BTB domain-containing protein 6-like	LOC100752220	100752220	0.53	0.62	0.65	0.54	0.78	0.49	25.82	27.45	37.26	34.77	36.22	27.11

olfactory receptor 8K5-like	LOC100752232	100752232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class I histocompatibility antigen, A-36 alpha chain-like	LOC100752239	100752239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetyllactosaminide alpha-1,3-galactosyltransferase-like	LOC100752240	100752240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100752241	100752241	1.82	1.70	1.61	0.73	1.10	0.78	28.10	25.62	26.08	5.79	18.63	8.41
heat shock factor protein 3	LOC100752243	100752243	0.14	0.12	0.05	0.09	0.09	0.37	15.19	9.15	7.45	11.59	9.31	12.15
serine hydrolase-like protein	LOC100752244	100752244	12.85	14.06	24.01	26.10	25.15	24.25	452.69	525.23	838.41	878.46	829.02	829.99
prolactin-3D4-like	LOC100752249	100752249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf54	LOC100752250	100752250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 150-like	LOC100752255	100752255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dehydrogenase/reductase SDR family member 7-like	LOC100752257	100752257	0.30	0.15	0.28	0.07	0.35	0.18	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-associated protein 2-like pseudogene	LOC100752259	100752259	2.12	1.87	1.82	1.69	1.58	1.77	168.62	150.07	141.60	135.59	126.27	143.94
olfactory receptor 2AG1-like	LOC100752260	100752260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S21 pseudogene	LOC100752263	100752263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 12	LOC100752264	100752264	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium/calmodulin-dependent protein kinase type II delta chain	LOC100752268	100752268	21.47	23.54	32.97	37.54	43.40	41.10	877.27	920.52	1315.37	1471.83	1696.34	1540.34
carbonyl reductase [NADPH] 1-like	LOC100752270	100752270	0.23	0.33	0.23	0.13	0.30	0.17	0.00	0.00	0.00	0.00	0.00	0.00
protein PBDC1 pseudogene	LOC100752274	100752274	0.32	0.39	0.16	0.00	0.27	0.12	3.04	4.58	1.24	0.00	3.10	0.93
epithelial chloride channel protein-like	LOC100752277	100752277	0.02	0.03	0.01	0.01	0.02	0.01	1.52	2.75	0.00	1.16	2.07	0.93

testis-expressed protein 19.2-like	LOC100752279	100752279	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ADP-ribosylation factor-like protein 6-interacting protein 1	LOC100752286	100752286	64.35	62.98	60.53	67.43	67.29	68.67	4087.08	4029.81	3906.36	4284.53	4244.48	4366.78
vomeronasal type-1 receptor 4-like	LOC100752288	100752288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosylhomocysteinase pseudogene	LOC100752289	100752289	0.00	0.03	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
tyrosinase	LOC100752294	100752294	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100752297	100752297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H1t	LOC100752306	100752306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100752309	100752309	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a	LOC100752312	100752312	6.38	6.20	6.12	4.24	4.98	3.87	10.63	13.73	18.63	10.43	8.28	4.67
sperm motility kinase Z	LOC100752318	100752318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100752319	100752319	0.00	0.00	0.00	0.38	0.64	0.00	1.52	2.75	1.24	3.48	3.10	0.00
taste receptor type 2 member 143	LOC100752320	100752320	0.07	0.00	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
alanyl-tRNA editing protein Aarsd1	LOC100752322	100752322	56.90	51.16	52.99	47.68	41.02	45.21	2292.29	2141.18	2169.93	1922.65	1677.71	1786.15
olfactory receptor 5W2-like	LOC100752325	100752325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class II histocompatibility antigen, I-E alpha chain-like	LOC100752328	100752328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4 pseudogene	LOC100752329	100752329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 28 pseudogene	LOC100752338	100752338	0.29	0.26	0.12	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
ubiquitin-related modifier 1 pseudogene	LOC100752339	100752339	0.83	1.13	0.71	1.06	0.59	0.83	3.04	3.66	2.48	3.48	2.07	2.80

ephrin type-A receptor 6	LOC100752345	100752345	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
cleavage and polyadenylation specificity factor subunit 5-like	LOC100752346	100752346	0.04	0.20	0.20	0.06	0.17	0.15	0.76	3.66	3.73	1.16	3.10	2.80
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100752347	100752347	0.32	0.58	0.28	0.42	0.42	0.21	6.84	12.81	6.21	10.43	10.35	4.67
trace amine-associated receptor 7e-like	LOC100752356	100752356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100752358	100752358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100752359	100752359	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nodal modulator 1	LOC100752363	100752363	156.62	149.62	164.83	157.94	145.39	163.13	9640.83	9319.62	10186.35	9609.76	8793.24	9828.99
uncharacterized LOC100752373	LOC100752373	100752373	0.91	1.25	0.80	0.59	0.81	0.98	71.40	87.84	54.65	49.83	61.06	69.17
bile salt sulfotransferase 1-like	LOC100752375	100752375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100752377	100752377	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	2.48	2.32	1.03	3.74
zinc finger protein 37-like	LOC100752382	100752382	0.37	0.50	0.40	0.50	0.44	0.49	0.00	0.00	1.24	0.00	1.03	0.93
calmodulin-alpha-like	LOC100752387	100752387	0.28	0.20	0.28	0.37	0.52	0.20	4.56	6.41	4.97	12.75	7.24	9.35
olfactory receptor 14J1-like	LOC100752388	100752388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NACHT, LRR and PYD domains-containing protein 5-like	LOC100752389	100752389	0.02	0.00	0.02	0.01	0.01	0.02	12.15	9.15	16.15	12.75	1.03	10.28
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 pseudogene	LOC100752390	100752390	1.22	2.95	3.24	1.17	1.84	0.91	3.04	3.66	3.73	1.16	3.10	0.93
GRB2-associated-binding protein 2 pseudogene	LOC100752391	100752391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC100752393	100752393	4.35	2.70	2.96	0.86	2.07	2.20	26.58	14.64	17.39	4.64	11.38	14.02
methylcytosine dioxygenase TET2-like	LOC100752395	100752395	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

40S ribosomal protein S28 pseudogene	LOC100752396	100752396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced transmembrane protein 2	LOC100752397	100752397	115.36	103.46	113.73	119.92	94.60	113.88	1099.05	995.56	1105.46	1175.14	883.88	1123.47
[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 2, mitochondrial-like	LOC100752399	100752399	0.76	0.46	0.75	0.39	0.75	0.61	2.28	0.92	0.00	0.00	2.07	0.93
hereditary hemochromatosis protein homolog	LOC100752402	100752402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
osteoclast-stimulating factor 1 pseudogene	LOC100752406	100752406	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative gustatory receptor clone PTE01	LOC100752407	100752407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6K3	LOC100752412	100752412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
quinone oxidoreductase-like protein 2	LOC100752419	100752419	11.84	11.10	9.41	11.06	10.67	10.35	968.41	910.46	780.03	890.05	852.83	834.66
golgin subfamily A member 7 pseudogene	LOC100752426	100752426	0.67	0.94	0.47	0.33	0.64	0.36	6.84	10.07	3.73	3.48	6.21	2.80
myeloblastin	LOC100752428	100752428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf87	LOC100752429	100752429	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
liprin-alpha-2	LOC100752430	100752430	1.02	1.21	1.07	1.41	1.83	1.72	107.85	134.51	118.00	140.23	196.65	168.24
arginine--tRNA ligase, cytoplasmic-like	LOC100752442	100752442	0.08	0.04	0.00	0.07	0.00	0.02	3.80	1.83	0.00	3.48	0.00	0.93
actin-related protein 2/3 complex subunit 1A pseudogene	LOC100752447	100752447	0.09	0.14	0.09	0.13	0.04	0.04	4.56	3.66	3.73	3.48	1.03	0.93
olfactory receptor 11H4	LOC100752456	100752456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 160-like	LOC100752458	100752458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peroxiredoxin-1 pseudogene	LOC100752460	100752460	0.88	0.37	0.41	0.68	0.60	0.54	10.63	3.66	4.97	8.11	7.24	6.54
60S ribosomal protein L11-like	LOC100752467	100752467	6.61	5.72	4.66	3.21	3.43	2.65	97.98	81.44	64.59	39.40	46.57	33.65

zinc finger protein 728-like	LOC100752468	100752468	0.97	1.05	0.89	1.11	1.27	1.18	195.20	222.35	172.65	230.63	251.50	247.69
olfactory receptor 4N5	LOC100752473	100752473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf42	LOC100752476	100752476	0.09	0.00	0.00	0.10	0.13	0.12	3.80	2.75	2.48	4.64	5.17	2.80
protein transport protein Sec61 subunit gamma-like	LOC100752477	100752477	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	1.03	0.93
sperm motility kinase X-like	LOC100752478	100752478	0.03	0.02	0.05	0.08	0.05	0.05	0.76	0.00	3.73	4.64	5.17	2.80
carcinoembryonic antigen-related cell adhesion molecule 5-like	LOC100752480	100752480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member B pseudogene	LOC100752482	100752482	17.28	18.80	22.25	18.32	23.19	19.20	376.73	378.82	438.46	317.54	303.25	276.66
G/T mismatch-specific thymine DNA glycosylase pseudogene	LOC100752484	100752484	0.05	0.12	0.06	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
claudin-3-like	LOC100752491	100752491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit E pseudogene	LOC100752494	100752494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-splicing factor 38B-like	LOC100752495	100752495	69.22	68.77	65.06	69.64	64.18	61.77	6149.99	6177.39	5877.55	6204.86	5720.37	5518.29
actin-like protein 9	LOC100752497	100752497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, minor isoenzyme-like	LOC100752499	100752499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 11 pseudogene	LOC100752501	100752501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostatic spermine-binding protein-like	LOC100752503	100752503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spliceosome RNA helicase DDX39B-like	LOC100752504	100752504	42.06	41.33	55.30	52.05	44.33	46.03	1070.95	1072.42	1422.19	1372.16	1152.97	1217.87
vomeronasal type-2 receptor 116-like	LOC100752509	100752509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
syntaxin-binding protein 1-like	LOC100752510	100752510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

oxidation resistance protein 1 pseudogene	LOC100752518	100752518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1052	LOC100752526	100752526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative heat shock protein HSP 90-alpha A2	LOC100752530	100752530	0.05	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
ubiquitin-like protein FUBI pseudogene	LOC100752532	100752532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100752535	100752535	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
probable G-protein coupled receptor 83	LOC100752539	100752539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine hydrolase-like protein	LOC100752540	100752540	1.47	1.27	2.89	2.48	2.74	2.16	40.26	42.09	78.25	67.22	87.97	71.03
prolactin-3D1-like	LOC100752545	100752545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H1.0	LOC100752547	100752547	396.94	430.34	433.82	413.15	358.54	362.16	14098.57	14989.16	15221.77	14537.49	12076.22	12660.10
olfactory receptor 1537-like	LOC100752550	100752550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial-like	LOC100752551	100752551	0.23	0.13	0.03	0.06	0.11	0.09	8.35	4.58	1.24	2.32	3.10	2.80
dehydrogenase/reductase SDR family member 7	LOC100752553	100752553	29.55	30.18	29.37	30.38	38.02	37.85	982.08	1029.41	998.64	1024.49	1281.31	1252.46
60S ribosomal protein L23a pseudogene	LOC100752554	100752554	0.15	0.11	0.03	0.03	0.05	0.09	0.76	0.92	0.00	0.00	0.00	0.00
olfactory receptor 2D3	LOC100752557	100752557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 12	LOC100752561	100752561	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family F member 2	LOC100752562	100752562	0.89	0.99	1.06	0.79	0.60	0.84	9.87	13.73	17.39	10.43	12.42	7.48
keratin-associated protein 20-2-like	LOC100752567	100752567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	LOC100752571	100752571	68.35	68.01	73.10	85.09	102.73	94.99	3098.16	3188.89	3409.53	3903.24	4547.73	4387.34

epithelial chloride channel protein-like	LOC100752576	100752576	0.03	0.00	0.03	0.00	0.00	0.02	2.28	2.75	2.48	2.32	1.03	2.80
transcription initiation factor TFIID subunit 9-like	LOC100752577	100752577	0.59	0.14	0.13	0.12	0.44	0.30	5.32	0.92	1.24	1.16	4.14	2.80
F-box only protein 28 pseudogene	LOC100752585	100752585	0.61	0.65	0.56	0.42	0.57	0.43	25.82	28.37	24.84	18.54	24.84	17.76
vomeronasal type-1 receptor 4-like	LOC100752586	100752586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beclin-2-like	LOC100752587	100752587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease P protein subunit p20-like	LOC100752588	100752588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear transport factor 2 pseudogene	LOC100752590	100752590	1.37	1.08	1.16	0.55	0.53	0.64	15.95	13.73	14.91	6.95	8.28	9.35
uncharacterized LOC100752592	LOC100752592	100752592	1.38	0.50	1.86	1.82	2.15	1.44	20.51	11.90	24.84	23.18	28.98	13.09
vomeronasal type-1 receptor 3-like	LOC100752594	100752594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endoplasmic reticulum-Golgi intermediate compartment protein 2	LOC100752596	100752596	76.52	75.87	62.33	72.66	72.37	71.00	811.19	798.82	684.39	763.73	783.48	729.04
aquaporin-12	LOC100752599	100752599	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription initiation factor TFIID subunit 13-like	LOC100752601	100752601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H4	LOC100752605	100752605	0.57	0.14	0.00	0.27	0.08	0.21	7.60	4.58	1.24	3.48	2.07	2.80
cholesterol side-chain cleavage enzyme, mitochondrial	LOC100752606	100752606	0.20	0.12	0.08	0.05	0.23	0.38	12.15	10.07	4.97	4.64	13.45	23.37
carbonic anhydrase 15	LOC100752607	100752607	0.00	0.08	0.00	0.05	0.00	0.00	1.52	2.75	1.24	5.79	1.03	0.93
olfactory receptor 2A12-like	LOC100752609	100752609	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
enhancer of rudimentary homolog pseudogene	LOC100752612	100752612	4.36	4.81	4.07	2.54	2.96	3.21	9.87	9.15	7.45	4.64	2.07	9.35
HIG1 domain family member 1A, mitochondrial pseudogene	LOC100752615	100752615	0.00	0.27	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00

actin-related protein 2/3 complex subunit 1A-like	LOC100752617	100752617	0.49	0.32	1.10	1.44	0.03	0.00	22.79	15.56	73.28	84.60	1.03	0.00
taste receptor type 2 member 41	LOC100752619	100752619	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-dependent RNA helicase DDX50 pseudogene	LOC100752622	100752622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100752623	100752623	36.74	37.82	41.49	36.78	35.00	36.05	750.42	831.77	922.87	909.75	832.13	741.19
olfactory receptor 5W2-like	LOC100752624	100752624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q9 alpha chain-like	LOC100752627	100752627	1.62	1.94	2.18	1.55	1.12	1.65	18.23	17.39	31.05	16.22	10.35	19.63
AKT-interacting protein pseudogene	LOC100752629	100752629	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
histone-lysine N-methyltransferase SUV39H1-like	LOC100752631	100752631	0.04	0.10	0.00	0.06	0.04	0.00	1.52	4.58	0.00	2.32	1.03	0.00
neuroblastoma suppressor of tumorigenicity 1	LOC100752634	100752634	60.56	59.59	42.67	38.01	37.27	40.23	2811.05	2778.04	1992.31	1756.92	1706.69	1865.60
trypsin-4-like	LOC100752635	100752635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Shroom2-like	LOC100752637	100752637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AU1	LOC100752638	100752638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsc70-interacting protein pseudogene	LOC100752641	100752641	11.41	10.65	11.66	11.48	12.91	11.36	365.34	337.65	380.08	366.22	406.75	389.76
spindlin-2-like	LOC100752647	100752647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf16	LOC100752651	100752651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel subfamily M member 7 pseudogene	LOC100752654	100752654	0.00	0.00	0.00	0.00	0.00	0.00	9.11	6.41	0.00	3.48	4.14	5.61
trace amine-associated receptor 7a-like	LOC100752657	100752657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100752660	100752660	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

40S ribosomal protein S12 pseudogene	LOC100752662	100752662	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-alpha-like	LOC100752664	100752664	0.29	0.26	0.22	0.07	0.23	0.08	16.71	13.73	12.42	3.48	13.45	4.67
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial-like	LOC100752670	100752670	0.77	0.06	0.53	0.22	0.16	0.29	4.56	0.00	3.73	1.16	0.00	1.87
60S ribosomal protein L36a-like	LOC100752672	100752672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100752674	100752674	9.91	10.60	10.79	12.82	14.42	12.12	715.49	754.90	772.58	914.39	1024.64	867.37
serine/threonine-protein kinase VRK1 pseudogene	LOC100752676	100752676	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM84A-like	LOC100752679	100752679	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCCH domain-containing protein 15-like	LOC100752681	100752681	0.00	0.00	0.00	0.04	0.00	0.00	0.76	1.83	3.73	2.32	1.03	0.00
chromosome unknown open reading frame, human C10orf118	LOC100752682	100752682	13.73	13.67	15.02	16.89	15.83	15.09	1292.74	1260.00	1417.22	1588.88	1461.40	1421.63
major urinary protein 5-like	LOC100752684	100752684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S20 pseudogene	LOC100752690	100752690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 30A-like	LOC100752691	100752691	32.37	35.21	41.97	44.89	51.06	47.88	873.47	921.44	1102.97	1184.42	1382.74	1221.61
tripartite motif-containing protein 6 pseudogene	LOC100752697	100752697	0.01	0.00	0.08	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100752698	100752698	0.36	0.75	0.51	0.47	0.42	0.26	6.84	18.30	12.42	9.27	8.28	8.41
chromosome unknown open reading frame, human C1orf56	LOC100752700	100752700	0.05	0.00	0.04	0.07	0.00	0.03	2.28	0.92	1.24	3.48	1.03	2.80
chromosome unknown open reading frame, human C14orf79	LOC100752702	100752702	1.97	1.97	1.90	2.03	1.90	2.23	84.31	79.61	78.25	84.60	76.59	90.66
eukaryotic translation initiation factor 3 subunit J-like	LOC100752704	100752704	0.00	0.05	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
microtubule-associated serine/threonine-protein kinase 4	LOC100752705	100752705	1.02	0.96	0.87	0.93	1.06	1.07	269.64	252.55	239.72	242.21	289.80	283.20

60S ribosomal protein L35a pseudogene	LOC100752707	100752707	0.10	0.00	0.00	0.00	0.07	0.13	3.04	0.00	2.48	0.00	2.07	2.80
putative gustatory receptor clone PTE01	LOC100752711	100752711	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit d, mitochondrial pseudogene	LOC100752712	100752712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100752713	100752713	6.39	4.28	3.44	1.81	3.50	2.25	129.88	86.01	70.80	34.77	66.24	41.13
L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase-like	LOC100752715	100752715	0.44	0.63	0.44	0.19	0.54	0.43	6.84	10.98	6.21	2.32	10.35	6.54
olfactory receptor 6K2	LOC100752716	100752716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-D-binding Myb-like transcription factor 1 pseudogene	LOC100752730	100752730	0.03	0.00	0.00	0.00	0.04	0.00	1.52	0.00	0.00	0.00	2.07	0.00
chromosome unknown open reading frame, human C12orf29	LOC100752737	100752737	13.55	13.49	13.06	14.74	17.96	16.78	752.70	752.16	716.68	775.32	907.68	842.14
olfactory receptor 10T2-like	LOC100752743	100752743	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-lysine N-methyltransferase PRDM9-like	LOC100752747	100752747	0.42	0.37	0.20	0.43	0.37	0.20	24.31	24.71	12.42	28.97	21.73	15.89
60S ribosomal protein L26 pseudogene	LOC100752748	100752748	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	1.24	1.16	1.03	0.00
nucleolin-like	LOC100752758	100752758	9.88	10.54	8.50	9.77	9.34	7.91	951.70	1002.88	827.23	773.00	629.27	567.34
proteasome subunit alpha type-7 pseudogene	LOC100752759	100752759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11H7	LOC100752760	100752760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein kinase MARK2 pseudogene	LOC100752762	100752762	0.00	0.02	0.03	0.00	0.00	0.02	0.00	0.92	1.24	0.00	0.00	0.93
zinc finger protein 420-like	LOC100752763	100752763	0.48	0.59	0.52	0.95	0.96	0.67	28.86	35.69	29.81	50.99	50.71	40.19
WD repeat domain phosphoinositide-interacting protein 2 pseudogene	LOC100752764	100752764	1.22	1.39	1.59	1.16	1.21	0.89	17.47	14.64	22.36	11.59	18.63	12.15
eukaryotic initiation factor 4A-III pseudogene	LOC100752770	100752770	0.06	0.03	0.00	0.00	0.04	0.03	1.52	0.92	0.00	0.00	1.03	0.93

olfactory receptor 4K5-like	LOC100752775	100752775	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dystrophin	LOC100752779	100752779	3.88	4.34	5.52	6.03	6.74	6.93	104.06	101.57	126.69	139.07	157.32	152.35
sepiapterin reductase-like	LOC100752780	100752780	0.07	0.17	0.08	0.19	0.23	0.39	2.28	4.58	3.73	4.64	6.21	8.41
carcinoembryonic antigen-related cell adhesion molecule 5-like	LOC100752782	100752782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 1 pseudogene	LOC100752784	100752784	0.17	0.04	0.08	0.05	0.19	0.08	6.08	0.92	1.24	1.16	4.14	2.80
Krueppel-like factor 17	LOC100752787	100752787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-binding protein RBBP4 pseudogene	LOC100752790	100752790	0.03	0.13	0.07	0.03	0.12	0.03	0.76	3.66	1.24	0.00	4.14	0.93
zinc finger CCCH domain-containing protein 15 pseudogene	LOC100752793	100752793	0.86	0.87	0.43	0.36	0.88	0.69	14.43	10.98	6.21	4.64	11.38	8.41
60S acidic ribosomal protein P2 pseudogene	LOC100752794	100752794	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
high mobility group protein B1 pseudogene	LOC100752796	100752796	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100752799	100752799	1.83	1.71	1.88	2.43	2.50	2.36	170.14	161.05	181.34	221.35	227.70	220.58
IQ and ubiquitin-like domain-containing protein	LOC100752802	100752802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced guanylate-binding protein 1-like	LOC100752806	100752806	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 143-like	LOC100752809	100752809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial pyruvate carrier 1 pseudogene	LOC100752810	100752810	0.00	0.00	0.00	0.72	0.37	0.00	3.04	0.92	0.00	2.32	1.03	0.00
zinc finger protein 354B-like	LOC100752811	100752811	0.08	0.00	0.00	0.00	0.16	0.00	6.08	10.07	8.69	4.64	4.14	2.80
BBSome-interacting protein 1-like	LOC100752818	100752818	1.17	0.00	0.51	0.00	0.43	0.41	6.84	1.83	4.97	6.95	1.03	3.74
40S ribosomal protein S15a-like	LOC100752821	100752821	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

1-acyl-sn-glycerol-3-phosphate acyltransferase alpha-like	LOC100752827	100752827	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	1.87
olfactory receptor 8J3	LOC100752829	100752829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate cyclase soluble subunit beta-2	LOC100752832	100752832	0.03	0.02	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
putative uncharacterized protein ZNRD1-AS1 homolog	LOC100752838	100752838	1.77	2.00	1.52	1.57	2.28	2.33	69.88	82.35	67.07	61.42	100.39	87.86
eukaryotic translation initiation factor 4B pseudogene	LOC100752841	100752841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S28 pseudogene	LOC100752843	100752843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-3C1-like	LOC100752847	100752847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
schlafen family member 12-like	LOC100752852	100752852	9.35	9.38	6.07	7.18	7.70	6.93	1276.79	1313.07	821.02	963.06	1023.60	974.86
olfactory receptor 146-like	LOC100752853	100752853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13 pseudogene	LOC100752855	100752855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100752857	LOC100752857	100752857	3.78	3.59	6.31	7.47	8.03	7.89	177.73	173.86	294.37	349.99	367.42	369.19
olfactory receptor 10C1-like	LOC100752862	100752862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol sulfotransferase A-like	LOC100752864	100752864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L15, mitochondrial pseudogene	LOC100752865	100752865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf43	LOC100752866	100752866	0.00	0.00	0.27	0.00	0.00	0.07	0.00	0.92	3.73	1.16	0.00	0.93
keratin-associated protein 20-2-like	LOC100752868	100752868	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonyl reductase [NADPH] 1-like	LOC100752869	100752869	7.54	6.50	6.41	4.82	5.18	5.35	145.07	110.72	113.03	96.19	104.53	96.27
chromosome unknown open reading frame, human C17orf80	LOC100752871	100752871	11.78	11.53	11.58	11.93	11.77	11.90	690.42	667.97	696.81	709.26	699.65	697.26

UPF0762 protein C6orf58-like	LOC100752877	100752877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase 6-like	LOC100752878	100752878	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	1.16	2.07	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100752882	100752882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L15, mitochondrial pseudogene	LOC100752885	100752885	0.21	0.28	0.06	0.06	0.05	0.05	5.32	5.49	2.48	1.16	1.03	0.93
vomeronasal type-1 receptor 4-like	LOC100752886	100752886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 55-like	LOC100752889	100752889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein slowmo homolog 2-like	LOC100752892	100752892	1.08	1.02	0.85	0.76	0.62	0.76	2.28	0.92	0.00	1.16	1.03	0.00
FGFR1 oncogene partner 2 homolog	LOC100752894	100752894	0.29	0.29	0.16	0.00	0.13	0.31	6.08	6.41	7.45	3.48	3.10	8.41
probable hydrolase PNKD	LOC100752898	100752898	21.47	21.34	21.75	21.17	16.54	18.57	2.28	2.75	3.73	2.32	6.21	2.80
40S ribosomal protein S27	LOC100752901	100752901	14.77	13.83	12.03	7.84	14.88	12.19	35.70	40.26	24.84	20.86	31.05	36.45
histone H1.2	LOC100752904	100752904	8.73	9.48	7.64	7.25	5.02	6.09	324.32	327.58	265.81	249.17	181.12	218.71
olfactory receptor 2A12-like	LOC100752908	100752908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oligosaccharyltransferase complex subunit OSTC pseudogene	LOC100752915	100752915	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
60S ribosomal protein L32 pseudogene	LOC100752916	100752916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 10AC1	LOC100752918	100752918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100752923	100752923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation of very long chain fatty acids protein 6-like	LOC100752924	100752924	0.04	0.00	0.00	0.06	0.00	0.00	1.52	0.92	0.00	2.32	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100752927	100752927	0.61	0.34	0.30	0.09	0.08	0.04	15.95	9.15	8.69	3.48	1.03	1.87

60S acidic ribosomal protein P1-like	LOC100752929	100752929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100752930	LOC100752930	100752930	1535.83	1470.60	1398.48	870.05	639.95	656.57	15799.93	15679.10	14946.03	9300.33	7665.11	7295.10
zinc finger protein 431-like	LOC100752931	100752931	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cationic trypsin-3-like	LOC100752935	100752935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100752936	LOC100752936	100752936	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C15orf57	LOC100752939	100752939	16.60	16.36	21.34	21.49	20.54	21.82	655.48	642.35	814.81	815.88	805.22	845.88
proteasome subunit beta type-5 pseudogene	LOC100752941	100752941	4.97	5.42	4.83	2.83	3.16	3.08	21.27	21.05	18.63	9.27	12.42	7.48
zinc finger protein 25-like	LOC100752942	100752942	2.14	2.34	2.31	3.35	3.55	3.02	148.11	171.11	171.41	235.26	250.47	218.71
zinc finger protein 431-like	LOC100752946	100752946	2.87	2.80	3.33	3.80	4.35	3.51	263.56	260.78	314.25	368.54	402.61	355.17
spindlin-2-like	LOC100752947	100752947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c1, heme protein, mitochondrial pseudogene	LOC100752952	100752952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trace amine-associated receptor 7e	LOC100752958	100752958	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf57	LOC100752964	100752964	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
uncharacterized protein KIAA1109	LOC100752965	100752965	8.39	8.39	7.79	10.16	10.87	10.24	3060.94	3066.28	2838.17	3716.66	3925.70	3715.31
chromosome unknown open reading frame, human C11orf95	LOC100752967	100752967	2.92	2.52	2.09	1.32	0.47	0.73	152.67	124.44	106.82	77.65	31.05	38.32
synaptosomal-associated protein 23 pseudogene	LOC100752969	100752969	0.91	0.68	0.41	0.41	0.85	0.39	3.04	3.66	0.00	0.00	2.07	0.00
UPF0568 protein C14orf166 homolog pseudogene	LOC100752973	100752973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51A7-like	LOC100752976	100752976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transmembrane protein 126A pseudogene	LOC100752977	100752977	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
regulator of nonsense transcripts 3B pseudogene	LOC100752978	100752978	1.24	1.87	1.29	1.03	1.30	0.63	11.39	14.64	6.21	5.79	9.31	4.67
vomeronasal type-2 receptor 116-like	LOC100752980	100752980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin 7	LOC100752983	100752983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B3 pseudogene	LOC100752984	100752984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase 7 pseudogene	LOC100752987	100752987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L8 pseudogene	LOC100752989	100752989	8.73	8.82	8.03	5.91	8.99	6.28	125.32	134.51	121.72	86.92	131.44	86.92
slit homolog 2 protein	LOC100752994	100752994	0.00	0.03	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100752996	100752996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
gamma-aminobutyric acid receptor-associated protein pseudogene	LOC100752998	100752998	0.10	0.00	0.00	0.00	0.27	0.24	0.76	0.00	0.00	0.00	2.07	1.87
proto-oncogene FRAT1-like	LOC100753006	100753006	0.05	0.06	0.08	0.08	0.00	0.00	4.56	2.75	3.73	4.64	5.17	0.93
lamina-associated polypeptide 2, isoforms beta/gamma pseudogene	LOC100753009	100753009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 867-like	LOC100753011	100753011	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC100753012	LOC100753012	100753012	0.58	0.55	0.63	0.77	0.09	0.00	21.27	22.88	27.33	27.81	5.17	0.93
chromosome unknown open reading frame, human C21orf91	LOC100753013	100753013	16.16	16.23	15.72	18.08	19.27	17.61	1014.74	1053.20	997.40	1134.58	1189.20	1073.94
SOSS complex subunit B2 pseudogene	LOC100753014	100753014	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	1.87
protein FAM156A/FAM156B	LOC100753015	100753015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
intelectin-1a-like	LOC100753016	100753016	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

heterogeneous nuclear ribonucleoproteins C1/C2-like	LOC100753025	100753025	0.96	1.31	0.76	0.91	1.18	0.40	18.99	27.45	14.91	19.70	24.84	7.48
40S ribosomal protein S3a pseudogene	LOC100753035	100753035	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
peptidyl-prolyl cis-trans isomerase A-like	LOC100753042	100753042	0.16	0.19	0.00	0.00	0.00	0.20	1.52	1.83	0.00	0.00	0.00	1.87
olfactory receptor 10T2-like	LOC100753043	100753043	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100753044	100753044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C18orf42	LOC100753051	100753051	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	1.87
serologically defined colon cancer antigen 8 homolog	LOC100753059	100753059	15.89	15.22	14.53	16.18	16.60	15.78	1621.62	1556.47	1565.03	1678.12	1704.62	1629.13
elongation factor 1-alpha 1-like	LOC100753063	100753063	5.78	5.30	4.84	4.28	6.54	5.38	143.55	164.71	149.05	154.14	225.63	161.70
peptidyl-tRNA hydrolase 2, mitochondrial pseudogene	LOC100753070	100753070	0.05	0.12	0.08	0.00	0.07	0.00	0.76	1.83	1.24	0.00	1.03	0.00
zinc finger protein 728-like	LOC100753071	100753071	1.10	1.10	1.23	1.33	1.41	1.32	192.16	188.50	209.91	238.74	234.94	233.67
serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform pseudogene	LOC100753076	100753076	0.53	0.74	0.48	0.56	0.51	0.76	18.23	26.54	13.66	22.02	15.52	23.37
olfactory receptor 4K15-like	LOC100753077	100753077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-complex protein 1 subunit eta pseudogene	LOC100753082	100753082	23.64	21.59	21.88	21.26	18.01	21.50	801.31	740.26	747.74	701.15	567.17	684.18
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100753084	100753084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C2orf78 homolog	LOC100753093	100753093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
60S ribosomal protein L7a-like	LOC100753097	100753097	0.16	0.09	0.16	0.04	0.03	0.00	6.84	3.66	4.97	3.48	1.03	1.87
induced myeloid leukemia cell differentiation protein Mcl-1 homolog	LOC100753098	100753098	0.87	1.23	0.76	0.49	0.92	0.31	31.90	44.84	19.87	13.91	18.63	6.54
actin-related protein 2/3 complex subunit 5-like protein pseudogene	LOC100753099	100753099	0.16	0.20	0.14	0.00	0.11	0.10	7.60	5.49	3.73	1.16	1.03	1.87

chromosome unknown open reading frame, human C15orf38	LOC100753100	100753100	24.18	28.81	27.59	28.33	28.55	27.93	309.13	346.80	346.54	353.47	358.11	343.02
TGF-beta-activated kinase 1 and MAP3K7-binding protein 2 pseudogene	LOC100753102	100753102	0.04	0.02	0.00	0.03	0.03	0.00	1.52	0.00	0.00	0.00	1.03	0.00
hereditary hemochromatosis protein homolog	LOC100753110	100753110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100753111	LOC100753111	100753111	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 525-like	LOC100753112	100753112	7.30	7.74	3.86	4.26	4.30	3.95	268.12	276.34	150.29	157.61	152.14	143.00
WW domain binding protein 1-like	LOC100753114	100753114	0.00	0.00	0.00	0.00	0.03	0.00	0.76	0.00	0.00	0.00	2.07	0.93
phosphatidylethanolamine-binding protein 1-like	LOC100753117	100753117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 2 subunit 1 pseudogene	LOC100753118	100753118	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00	1.16	1.03	0.00
uncharacterized LOC100753122	LOC100753122	100753122	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	2.48	2.32	2.07	0.93
phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like	LOC100753123	100753123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
olfactory receptor 8K3	LOC100753130	100753130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf54	LOC100753132	100753132	2.15	2.10	2.00	2.54	2.77	2.68	121.53	112.55	103.09	132.12	145.93	141.14
40S ribosomal protein S6 pseudogene	LOC100753134	100753134	0.00	0.00	0.00	0.11	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
10 kDa heat shock protein, mitochondrial	LOC100753142	100753142	129.18	125.74	116.35	104.27	97.76	104.91	1070.95	994.64	927.84	760.25	594.08	683.24
cytochrome c oxidase subunit 6C-2 pseudogene	LOC100753143	100753143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
schlafen family member 12-like	LOC100753152	100753152	0.06	0.05	0.02	0.00	0.02	0.00	5.32	3.66	1.24	0.00	1.03	0.00
olfactory receptor 8D2-like	LOC100753153	100753153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aconitate hydratase, mitochondrial pseudogene	LOC100753154	100753154	3.32	3.49	3.41	2.94	3.19	3.35	50.89	40.26	28.57	32.45	31.05	42.06

cardiotrophin-2	LOC100753155	100753155	0.02	0.04	0.02	0.05	0.02	0.04	1.52	1.83	2.48	3.48	1.03	1.87
60S ribosomal protein L7a pseudogene	LOC100753156	100753156	0.00	0.00	0.07	0.00	0.06	0.00	0.00	2.75	1.24	0.00	2.07	0.00
olfactory receptor 2AP1-like	LOC100753162	100753162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bile salt sulfotransferase 1-like	LOC100753164	100753164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 3 pseudogene	LOC100753167	100753167	0.07	0.09	0.00	0.12	0.10	0.09	2.28	1.83	0.00	2.32	1.03	0.93
histone deacetylase 1 pseudogene	LOC100753168	100753168	0.14	0.12	0.01	0.10	0.07	0.06	1.52	2.75	0.00	2.32	2.07	0.93
POU domain, class 5, transcription factor 1 pseudogene	LOC100753170	100753170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase alpha-5	LOC100753172	100753172	0.06	0.07	0.00	0.00	0.04	0.05	1.52	2.75	0.00	0.00	2.07	0.93
40S ribosomal protein S18-like	LOC100753180	100753180	0.00	0.12	0.16	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
olfactory receptor 287	LOC100753182	100753182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC100753183	LOC100753183	100753183	0.54	0.75	0.62	0.48	0.67	0.60	34.18	40.26	42.23	33.61	40.36	37.39
prohibitin pseudogene	LOC100753185	100753185	0.79	0.87	0.08	0.30	0.20	0.12	12.15	11.90	1.24	3.48	3.10	1.87
N-acylglucosamine 2-epimerase-like	LOC100753186	100753186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 55	LOC100753188	100753188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
multifunctional protein ADE2-like	LOC100753190	100753190	2.61	2.58	1.61	1.52	2.21	1.78	66.84	72.29	38.50	38.24	56.92	43.93
LIM zinc-binding domain-containing Nebulette	LOC100753199	100753199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3	LOC100753203	100753203	0.08	0.28	0.00	0.00	0.00	0.00	1.52	3.66	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 8 pseudogene	LOC100753205	100753205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

L-amino-acid oxidase-like	LOC100753207	100753207	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM115E-like	LOC100753218	100753218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-coenzyme A thioesterase 1-like	LOC100753222	100753222	2.11	1.89	2.23	2.77	1.29	1.43	47.85	53.07	62.10	84.60	34.15	31.78
olfactory receptor 5W2-like	LOC100753223	100753223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 L3 pseudogene	LOC100753227	100753227	22.13	25.38	20.55	21.38	21.79	20.92	26.58	22.88	9.94	13.91	14.49	13.09
methionine aminopeptidase 1 pseudogene	LOC100753231	100753231	1.11	1.11	0.93	1.18	1.18	1.26	24.31	27.45	22.36	26.66	27.94	28.97
anionic trypsin-2	LOC100753235	100753235	0.09	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
uncharacterized LOC100753237	LOC100753237	100753237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA desaturase 1-like	LOC100753241	100753241	0.20	0.16	0.11	0.18	0.29	0.22	6.84	9.15	6.21	3.48	7.24	7.48
zinc finger protein 709-like	LOC100753242	100753242	4.89	4.66	5.69	6.59	6.79	6.19	593.20	573.73	700.54	813.56	821.78	760.82
60S ribosomal protein L35	LOC100753244	100753244	30.73	32.98	40.08	27.13	29.31	29.69	209.63	225.10	259.60	170.36	194.58	198.15
olfactory receptor 5AC1-like	LOC100753245	100753245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 26A-like	LOC100753247	100753247	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5'-nucleotidase-like	LOC100753248	100753248	0.13	0.08	0.00	0.02	0.10	0.02	7.60	4.58	0.00	1.16	5.17	0.93
glutathione S-transferase A4	LOC100753254	100753254	98.97	99.70	119.22	122.98	120.76	136.14	2450.27	2498.96	2918.90	2934.39	2905.21	3217.13
vacuolar protein sorting-associated protein 52 homolog	LOC100753256	100753256	20.63	19.24	17.63	15.17	11.60	13.69	1920.87	1777.91	1678.06	1493.85	1156.08	1363.68
trace amine-associated receptor 7c	LOC100753257	100753257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf16	LOC100753264	100753264	9.18	8.86	12.62	9.07	5.93	6.99	171.66	159.22	232.27	191.22	128.34	156.09

transcription factor BTF3 pseudogene	LOC100753265	100753265	1.13	0.91	0.69	0.54	0.42	0.77	12.15	10.07	7.45	5.79	3.10	10.28
olfactory receptor 4F21	LOC100753266	100753266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 110	LOC100753269	100753269	15.72	15.14	16.81	16.86	15.50	16.15	690.42	679.87	767.61	748.66	720.35	728.11
40S ribosomal protein SA pseudogene	LOC100753271	100753271	2.14	1.68	1.94	1.07	1.19	0.91	79.75	69.54	81.98	45.20	42.43	34.58
NADH-cytochrome b5 reductase-like	LOC100753272	100753272	2.18	1.82	1.89	1.71	1.77	1.98	214.95	181.18	180.10	168.04	175.95	191.61
olfactory receptor 52R1-like	LOC100753273	100753273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane magnesium transporter 2	LOC100753275	100753275	4.36	4.96	4.86	4.20	3.51	3.68	202.04	226.01	199.98	228.31	205.96	227.12
complement C5-like	LOC100753276	100753276	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100753278	100753278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin 7	LOC100753281	100753281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100753285	LOC100753285	100753285	1.61	1.42	1.28	1.13	1.41	1.55	290.90	268.10	245.93	225.99	292.90	287.88
glycogen phosphorylase, liver form	LOC100753288	100753288	8.41	8.45	6.47	6.34	7.09	7.63	428.38	445.62	335.36	336.09	375.70	392.56
eukaryotic translation initiation factor 3 subunit J-like	LOC100753289	100753289	0.21	0.10	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf63	LOC100753290	100753290	23.21	23.88	18.34	19.32	25.15	22.66	556.74	564.58	439.70	477.47	590.98	534.63
hepatocyte cell adhesion molecule	LOC100753291	100753291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
developmentally-regulated GTP-binding protein 1 pseudogene	LOC100753296	100753296	2.59	1.93	1.84	1.93	1.97	2.32	48.61	38.43	43.47	40.56	37.26	55.15
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100753299	100753299	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3 pseudogene	LOC100753302	100753302	56.07	61.61	58.13	50.36	60.76	51.32	741.31	848.24	770.09	638.56	813.50	629.97

heat shock protein HSP 90-beta pseudogene	LOC100753307	100753307	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.87
olfactory receptor 7E24-like	LOC100753311	100753311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable rRNA-processing protein EBP2 pseudogene	LOC100753313	100753313	0.22	0.13	0.18	0.11	0.10	0.09	5.32	3.66	3.73	2.32	2.07	2.80
peptidyl-prolyl cis-trans isomerase A-like	LOC100753323	100753323	1.87	1.57	0.17	0.45	0.90	0.89	15.19	11.90	1.24	2.32	7.24	6.54
60S ribosomal protein L23a pseudogene	LOC100753325	100753325	0.16	0.19	0.00	0.00	0.33	0.20	1.52	1.83	0.00	0.00	3.10	1.87
chromosome unknown open reading frame, human C1orf109	LOC100753330	100753330	9.10	8.86	8.18	8.83	7.29	8.92	468.64	466.67	447.15	460.09	391.22	465.47
peptidyl-prolyl cis-trans isomerase D pseudogene	LOC100753334	100753334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C12orf50	LOC100753335	100753335	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
pleiotropic regulator 1 pseudogene	LOC100753344	100753344	0.09	0.14	0.05	0.07	0.13	0.15	3.80	7.32	2.48	3.48	6.21	7.48
ribosomal L1 domain-containing protein 1-like	LOC100753349	100753349	0.93	0.86	0.81	0.78	0.75	0.37	33.42	28.37	26.08	25.50	24.84	16.82
eukaryotic initiation factor 4A-III pseudogene	LOC100753355	100753355	6.07	6.50	5.70	3.50	1.58	1.63	214.19	233.33	206.19	105.46	46.57	49.54
zinc finger protein 420-like	LOC100753357	100753357	0.21	0.19	0.34	0.37	0.70	0.36	15.19	13.73	26.08	26.66	54.85	29.91
olfactory receptor 5B3-like	LOC100753369	100753369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2D3-like	LOC100753371	100753371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
developmental pluripotency-associated protein 4-like	LOC100753372	100753372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sialic acid-binding Ig-like lectin 9	LOC100753373	100753373	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfotransferase family cytosolic 2B member 1-like	LOC100753375	100753375	0.00	0.08	0.00	0.05	0.00	0.00	0.00	2.75	0.00	2.32	0.00	0.00
60S ribosomal protein L34 pseudogene	LOC100753380	100753380	0.16	0.00	0.79	0.00	0.00	0.07	0.76	0.00	1.24	0.00	0.00	0.00

protein SET-like	LOC100753387	100753387	0.05	0.04	0.07	0.00	0.05	0.06	0.76	0.00	1.24	0.00	1.03	1.87
ATM interactor pseudogene	LOC100753388	100753388	0.85	0.81	0.96	0.62	0.62	0.91	37.98	42.09	40.99	23.18	25.87	44.86
zinc finger protein 251	LOC100753390	100753390	2.92	2.80	4.09	3.41	3.64	3.68	244.57	225.10	327.91	295.52	303.25	311.25
sepiapterin reductase-like	LOC100753393	100753393	0.13	0.13	0.00	0.06	0.33	0.41	2.28	1.83	0.00	4.64	6.21	9.35
ATP synthase subunit e, mitochondrial-like	LOC100753395	100753395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100753397	100753397	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.92	0.00	1.16	0.00	1.87
signal-regulatory protein beta-1 isoform 3-like	LOC100753401	100753401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains subfamily A member 12-like	LOC100753402	100753402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMM domain-containing protein 5	LOC100753405	100753405	33.34	31.26	36.53	25.46	22.02	23.79	962.34	896.73	1055.77	723.17	617.89	700.07
thyroid hormone receptor alpha	LOC100753407	100753407	37.43	37.35	32.43	29.03	22.92	23.45	6.84	3.66	8.69	2.32	9.31	2.80
60S ribosomal protein L32 pseudogene	LOC100753408	100753408	51.95	56.29	52.91	50.61	56.00	47.61	85.07	85.10	79.49	81.12	116.95	96.27
zinc finger protein 120-like	LOC100753410	100753410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline-rich proteoglycan 2-like	LOC100753414	100753414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mesoderm induction early response protein 1-like	LOC100753415	100753415	0.17	0.03	0.08	0.08	0.14	0.06	5.32	0.92	2.48	2.32	4.14	1.87
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100753420	100753420	1.29	1.07	0.56	1.04	0.91	0.85	38.74	32.94	14.91	30.13	30.01	28.04
olfactory receptor 8K3-like	LOC100753427	100753427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase H pseudogene	LOC100753428	100753428	0.75	0.87	0.48	0.73	1.17	0.69	10.63	10.98	4.97	10.43	12.42	12.15
60S ribosomal protein L7a pseudogene	LOC100753430	100753430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EKC/KEOPS complex subunit LAGE3-like	LOC100753432	100753432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human CXorf21	LOC100753437	100753437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12 pseudogene	LOC100753440	100753440	0.17	0.42	0.43	0.55	0.24	0.22	1.52	3.66	7.45	4.64	2.07	3.74
prolactin-6A1-like	LOC100753446	100753446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chloride channel protein ClC-Ka	LOC100753449	100753449	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 149-like	LOC100753451	100753451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 6B-like	LOC100753455	100753455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100753456	LOC100753456	100753456	6.81	6.38	7.27	7.11	8.64	7.34	214.95	220.52	228.54	243.37	317.74	243.01
olfactory receptor 6C6-like	LOC100753459	100753459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 kDa heat shock protein, mitochondrial pseudogene	LOC100753460	100753460	0.00	0.25	0.35	0.00	0.29	0.00	1.52	1.83	2.48	0.00	1.03	0.00
keratin-associated protein 20-2-like	LOC100753465	100753465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonyl reductase [NADPH] 1-like	LOC100753466	100753466	3.25	3.62	3.15	3.58	3.80	3.59	57.72	55.82	52.17	56.79	62.10	57.95
glutathione S-transferase alpha-3	LOC100753467	100753467	0.50	0.20	0.71	0.83	0.09	0.50	13.67	8.24	18.63	23.18	2.07	16.82
mitochondrial inner membrane protein pseudogene	LOC100753474	100753474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100753476	100753476	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
olfactory receptor 226	LOC100753481	100753481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100753484	100753484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-lactate dehydrogenase A chain-like	LOC100753485	100753485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LETM1 domain-containing protein LETM2, mitochondrial	LOC100753490	100753490	1.43	1.41	1.02	1.52	1.68	1.28	53.93	57.65	43.47	55.63	67.27	62.62
chromosome unknown open reading frame, human C10orf32	LOC100753492	100753492	0.94	1.24	0.98	0.43	0.27	0.48	32.66	44.84	34.78	15.07	10.35	16.82
EKC/KEOPS complex subunit LAGE3-like	LOC100753493	100753493	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 709-like	LOC100753494	100753494	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
histone H2B type 1-B	LOC100753502	100753502	2.59	3.04	2.22	0.75	1.01	0.84	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 pseudogene	LOC100753503	100753503	1.83	1.87	1.98	1.45	0.76	1.39	14.43	15.56	16.15	15.07	6.21	12.15
heterogeneous nuclear ribonucleoprotein A1-like	LOC100753504	100753504	0.28	0.47	0.25	0.25	0.21	0.40	8.35	15.56	7.45	6.95	9.31	14.02
disks large homolog 5-like	LOC100753509	100753509	0.19	0.04	0.16	0.23	0.50	0.16	3.04	1.83	1.24	4.64	7.24	1.87
fructose-bisphosphate aldolase A pseudogene	LOC100753510	100753510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centrin-2 pseudogene	LOC100753513	100753513	3.82	3.46	3.35	2.66	5.99	4.55	96.46	96.08	85.70	77.65	146.97	108.42
cytochrome c-like	LOC100753519	100753519	10.02	13.80	15.71	10.07	13.63	9.32	102.54	121.70	151.53	78.81	100.39	69.17
chromosome unknown open reading frame, human C4orf45	LOC100753521	100753521	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	1.16	1.03	0.00
acyl-coenzyme A thioesterase 1-like	LOC100753522	100753522	0.03	0.09	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1019-like	LOC100753523	100753523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100753524	100753524	0.00	0.07	0.09	0.00	0.08	0.00	1.52	2.75	1.24	1.16	1.03	1.87
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100753528	100753528	1.23	2.01	1.45	1.26	1.00	0.94	22.03	35.69	33.54	31.29	30.01	27.11
GRB2-associated-binding protein 2 pseudogene	LOC100753530	100753530	0.03	0.02	0.00	0.05	0.00	0.02	1.52	1.83	0.00	2.32	0.00	1.87
anionic trypsin-2-like	LOC100753535	100753535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

lys-63-specific deubiquitinase BRCC36	LOC100753541	100753541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA desaturase 2-like	LOC100753542	100753542	0.17	0.13	0.40	0.20	0.28	0.16	5.32	0.00	7.45	3.48	2.07	4.67
40S ribosomal protein S8 pseudogene	LOC100753543	100753543	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AC1-like	LOC100753546	100753546	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9K2	LOC100753547	100753547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf159	LOC100753550	100753550	0.05	0.08	0.03	0.04	0.07	0.02	6.84	10.98	2.48	5.79	7.24	2.80
GRB2-associated-binding protein 2 pseudogene	LOC100753556	100753556	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, L-D alpha chain-like	LOC100753557	100753557	106.76	97.80	122.86	115.15	89.50	105.44	1254.76	1131.90	1413.49	1287.56	1052.58	1233.76
trace amine-associated receptor 8a	LOC100753558	100753558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf84	LOC100753566	100753566	18.64	17.79	21.60	18.67	13.14	15.16	887.90	839.09	1001.12	879.62	632.38	722.50
olfactory receptor 4K3	LOC100753567	100753567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box/WD repeat-containing protein 11-like	LOC100753568	100753568	0.91	0.87	0.50	0.78	0.62	0.70	47.09	46.67	29.81	46.36	33.12	32.71
probable G-protein coupled receptor 160	LOC100753572	100753572	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51F1	LOC100753574	100753574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement C5-like	LOC100753577	100753577	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger MYND domain-containing protein 19 pseudogene	LOC100753585	100753585	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Ig heavy chain V region 108A-like	LOC100753586	100753586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100753588	100753588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromatin target of PRMT1 protein pseudogene	LOC100753592	100753592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L21	LOC100753593	100753593	16.79	18.32	14.54	10.76	14.24	11.48	136.72	146.41	109.30	92.71	111.78	89.73
LIM and senescent cell antigen-like-containing domain protein 1 pseudogene	LOC100753595	100753595	0.12	0.07	0.10	0.05	0.17	0.00	2.28	2.75	3.73	1.16	3.10	0.00
acyl-CoA-binding protein pseudogene	LOC100753598	100753598	1.75	1.77	0.25	0.24	1.03	0.76	12.91	10.07	2.48	2.32	6.21	3.74
14-3-3 protein epsilon	LOC100753603	100753603	498.75	477.88	501.80	507.19	547.53	539.45	9265.62	8590.33	9519.35	9705.95	10751.44	10907.60
proteasome assembly chaperone 2 pseudogene	LOC100753610	100753610	0.00	0.05	0.00	0.00	0.03	0.00	0.76	0.92	0.00	0.00	0.00	0.93
olfactory receptor 7D4-like	LOC100753612	100753612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
major histocompatibility complex class I-related gene protein	LOC100753615	100753615	0.10	0.07	0.14	0.04	0.08	0.07	9.11	7.32	13.66	6.95	10.35	9.35
40S ribosomal protein S10 pseudogene	LOC100753617	100753617	0.44	0.36	0.24	1.00	0.41	0.61	13.67	13.73	7.45	23.18	13.45	12.15
40S ribosomal protein S6-like	LOC100753620	100753620	0.00	0.37	0.22	0.14	0.27	0.11	0.76	10.98	6.21	3.48	6.21	1.87
uncharacterized LOC100753628	LOC100753628	100753628	4.26	4.08	3.13	3.76	1.74	1.84	1396.03	1337.78	1033.42	1248.16	575.45	607.54
paired mesoderm homeobox protein 2 pseudogene	LOC100753633	100753633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription initiation factor IIA subunit 2 pseudogene	LOC100753634	100753634	1.46	1.10	0.94	1.27	1.88	1.00	6.08	3.66	2.48	3.48	7.24	5.61
chromosome unknown open reading frame, human C10orf99	LOC100753638	100753638	0.11	0.00	0.00	0.00	0.08	0.00	1.52	0.00	0.00	0.00	1.03	0.00
40S ribosomal protein S12 pseudogene	LOC100753639	100753639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C9orf85 homolog pseudogene	LOC100753643	100753643	0.13	0.08	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
lysosomal Pro-X carboxypeptidase-like	LOC100753648	100753648	0.06	0.09	0.02	0.00	0.13	0.02	3.80	5.49	1.24	0.00	3.10	0.93
serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform pseudogene	LOC100753649	100753649	0.07	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.93

60S ribosomal protein L37 pseudogene	LOC100753650	100753650	0.58	1.53	1.34	2.26	2.46	0.27	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C22orf23	LOC100753660	100753660	5.97	7.57	5.69	5.54	3.83	4.47	632.70	639.61	604.90	557.44	464.71	512.20
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100753666	100753666	0.03	0.00	0.00	0.04	0.00	0.03	0.76	0.00	0.00	1.16	0.00	0.93
zinc finger protein 728-like	LOC100753667	100753667	4.01	3.98	5.01	5.65	5.43	5.29	281.79	272.68	353.99	400.99	387.08	371.06
olfactory receptor 5B3	LOC100753670	100753670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 5-like	LOC100753671	100753671	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2D3-like	LOC100753672	100753672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11G2-like	LOC100753673	100753673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rRNA-processing protein FCF1 homolog	LOC100753675	100753675	0.06	0.00	0.00	0.10	0.00	0.00	2.28	2.75	0.00	1.16	2.07	0.93
putative vomeronasal receptor-like protein 4	LOC100753678	100753678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C18-like	LOC100753681	100753681	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
HERV-K_11q22.1 provirus ancestral Pol protein-like	LOC100753682	100753682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase X-like	LOC100753695	100753695	0.19	0.26	0.24	0.26	0.42	0.30	9.11	12.81	9.94	9.27	17.59	13.09
serine/threonine-protein phosphatase PP1-gamma catalytic subunit pseudogene	LOC100753696	100753696	3.36	2.84	3.06	2.22	2.18	2.78	119.25	108.89	116.76	91.55	77.62	91.60
tudor and KH domain-containing protein pseudogene	LOC100753697	100753697	0.00	0.00	0.00	0.07	0.00	0.05	0.00	0.00	0.00	1.16	0.00	0.93
nucleoporin NUP188 homolog	LOC100753702	100753702	26.37	24.92	27.56	27.11	24.79	27.60	2448.75	2325.10	2515.23	2417.51	2192.10	2363.78
cytochrome P450 2C26-like	LOC100753704	100753704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rho guanine nucleotide exchange factor 3 pseudogene	LOC100753706	100753706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

40S ribosomal protein S6	LOC100753707	100753707	891.15	860.18	918.29	956.23	935.06	979.64	4387.86	4598.96	4877.68	4863.99	4832.35	4807.01
40S ribosomal protein S11-like	LOC100753710	100753710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
olfactory receptor 2AE1-like	LOC100753711	100753711	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC100753714	100753714	4.26	3.80	4.05	4.77	5.85	4.88	350.15	312.94	339.09	399.83	484.37	407.52
taste receptor type 2 member 14-like	LOC100753718	100753718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(rC)-binding protein 2-like	LOC100753720	100753720	12.06	12.77	12.07	11.15	11.29	8.82	410.15	441.96	423.55	359.27	351.90	271.05
uncharacterized LOC100753723	LOC100753723	100753723	0.33	0.49	0.63	1.16	0.81	0.70	19.75	21.96	33.54	59.10	40.36	36.45
olfactory receptor 8K3-like	LOC100753729	100753729	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3-like	LOC100753731	100753731	0.29	0.51	1.19	1.17	1.34	0.93	6.84	10.98	9.94	9.27	8.28	5.61
olfactory receptor 7E24-like	LOC100753737	100753737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100753738	LOC100753738	100753738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100753740	100753740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2D28-like	LOC100753741	100753741	0.02	0.05	0.03	0.06	0.00	0.00	0.76	0.92	1.24	2.32	0.00	0.00
60S ribosomal protein L39 pseudogene	LOC100753742	100753742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
ribosome production factor 2 homolog pseudogene	LOC100753743	100753743	0.69	0.88	0.55	0.27	0.32	0.44	11.39	11.90	7.45	3.48	3.10	5.61
SCAN domain-containing protein 3-like	LOC100753744	100753744	4.69	4.47	4.74	4.72	4.39	4.27	218.75	215.03	269.53	321.02	300.15	314.05
prolactin-3D1-like	LOC100753747	100753747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chloride channel protein ClC-Kb	LOC100753750	100753750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00

olfactory receptor 8D1-like	LOC100753752	100753752	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
lipoma HMGIC fusion partner	LOC100753753	100753753	12.49	13.14	16.49	17.57	20.30	19.88	406.35	427.32	544.03	573.67	638.59	633.71
keratin, type II cytoskeletal 6A	LOC100753757	100753757	0.02	0.05	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
actin-related protein 2 pseudogene	LOC100753758	100753758	0.18	0.12	0.00	0.08	0.14	0.16	5.32	6.41	0.00	2.32	5.17	6.54
CD177 antigen	LOC100753760	100753760	0.56	0.48	0.23	0.20	0.15	0.09	50.13	42.09	18.63	23.18	10.35	5.61
eukaryotic translation initiation factor 1	LOC100753761	100753761	3.72	2.86	2.05	1.20	3.10	2.37	26.58	17.39	14.91	11.59	18.63	15.89
forkhead box protein I3-like	LOC100753769	100753769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase A6	LOC100753770	100753770	22.97	22.77	21.16	23.83	16.76	17.75	571.93	581.96	535.34	598.00	423.31	430.88
60S ribosomal protein L29 pseudogene	LOC100753771	100753771	0.67	0.41	0.78	0.37	0.11	0.20	4.56	2.75	6.21	2.32	1.03	0.93
uncharacterized LOC100753780	LOC100753780	100753780	213.42	195.53	222.42	198.47	153.11	172.20	9757.04	9438.57	10629.78	9656.12	7475.71	8382.12
vomeronasal type-1 receptor 4-like	LOC100753784	100753784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C8orf74	LOC100753786	100753786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 25 member 51-like	LOC100753788	100753788	0.78	0.72	0.59	0.41	0.77	0.45	10.63	2.75	9.94	3.48	7.24	3.74
phosphatidylethanolamine-binding protein 1-like	LOC100753789	100753789	0.33	0.25	0.15	0.09	0.17	0.22	3.80	2.75	1.24	1.16	2.07	2.80
GTPase KRas pseudogene	LOC100753790	100753790	0.68	0.50	0.62	0.22	0.52	0.43	1.52	0.92	0.00	0.00	1.03	0.00
40S ribosomal protein S11-like	LOC100753792	100753792	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	1.16	2.07	0.00
olfactory receptor 8S1	LOC100753793	100753793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 1	LOC100753804	100753804	0.03	0.04	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00

immunoglobulin iota chain-like	LOC100753806	100753806	0.00	0.00	0.00	0.00	0.00	0.00						
developmentally-regulated GTP-binding protein 1 pseudogene	LOC100753810	100753810	0.63	0.76	1.03	1.35	0.46	0.42	6.08	10.98	9.94	8.11	5.17	1.87
26S proteasome non-ATPase regulatory subunit 4 pseudogene	LOC100753812	100753812	0.12	0.00	0.13	0.00	0.00	0.00	3.04	0.00	2.48	0.00	1.03	0.00
olfactory receptor-like protein OLF3	LOC100753820	100753820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15 pseudogene	LOC100753823	100753823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-coenzyme A thioesterase 5-like	LOC100753824	100753824	0.02	0.03	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100753825	100753825	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial intermembrane space import and assembly protein 40 pseudogene	LOC100753829	100753829	1.60	1.64	1.76	1.68	1.33	1.37	11.39	9.15	14.91	15.07	7.24	11.22
UPF0378 protein KIAA0100-like	LOC100753831	100753831	0.03	0.03	0.01	0.02	0.04	0.02	6.08	5.49	1.24	3.48	7.24	3.74
olfactory receptor 9A4	LOC100753836	100753836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras-related protein Rab-5B pseudogene	LOC100753839	100753839	0.00	0.06	0.00	0.00	0.07	0.00	0.76	0.92	0.00	0.00	1.03	0.00
chromosome unknown open reading frame, human C10orf76	LOC100753840	100753840	8.14	8.40	8.75	9.95	11.61	11.88	636.49	646.93	716.68	744.03	893.19	896.35
RRP15-like protein pseudogene	LOC100753845	100753845	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 187-like	LOC100753848	100753848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein light chain 1, cytoplasmic-like	LOC100753850	100753850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fructose-bisphosphate aldolase A pseudogene	LOC100753853	100753853	0.69	0.44	0.37	0.17	0.29	0.23	17.47	11.90	9.94	4.64	7.24	5.61
centrin-2 pseudogene	LOC100753854	100753854	0.09	0.00	0.00	0.14	0.00	0.00	3.04	1.83	1.24	1.16	1.03	0.00
uncharacterized LOC100753856	LOC100753856	100753856	0.02	0.00	0.00	0.03	0.00	0.00	6.08	1.83	8.69	6.95	6.21	9.35

glutathione S-transferase A2	LOC100753857	100753857	0.06	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
small ubiquitin-related modifier 2	LOC100753859	100753859	0.18	0.60	0.24	0.58	0.60	0.37	18.23	21.96	19.87	19.70	7.24	9.35
enhancer of rudimentary homolog pseudogene	LOC100753861	100753861	0.49	0.12	0.66	0.64	0.55	0.25	6.08	3.66	8.69	5.79	6.21	4.67
mitochondrial thiamine pyrophosphate carrier pseudogene	LOC100753863	100753863	0.04	0.03	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.03	0.00
putative Dol-P-Glc:Glc(2)Man(9)GlcNAc(2)-PP-Dol alpha-1,2-glucosyltransferase	LOC100753866	100753866	5.15	5.27	6.27	6.95	7.20	7.10	687.38	708.24	845.86	927.14	960.47	958.97
calcium-binding mitochondrial carrier protein SCaMC-1-like	LOC100753868	100753868	0.00	0.00	0.03	0.00	0.00	0.00	0.76	1.83	1.24	0.00	1.03	0.00
olfactory receptor 4K3	LOC100753869	100753869	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
transforming growth factor beta regulator 1 pseudogene	LOC100753871	100753871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial glutamate carrier 1 pseudogene	LOC100753875	100753875	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51F2	LOC100753877	100753877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100753880	100753880	0.04	0.01	0.04	0.05	0.05	0.04	5.32	4.58	13.66	27.81	31.05	42.99
mRNA turnover protein 4 homolog pseudogene	LOC100753885	100753885	6.79	7.48	5.20	4.31	4.12	4.99	85.07	97.91	63.35	53.31	46.57	64.49
chromatin target of PRMT1 protein pseudogene	LOC100753888	100753888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100753890	100753890	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2 pseudogene	LOC100753893	100753893	0.01	0.00	0.00	0.04	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.93
mortality factor 4-like protein 2	LOC100753896	100753896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf53	LOC100753897	100753897	0.09	0.00	0.00	0.00	0.00	0.00	2.28	1.83	1.24	1.16	0.00	0.00
olfactory receptor 14A2-like	LOC100753900	100753900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transmembrane protein 198 pseudogene	LOC100753902	100753902	0.06	0.21	0.24	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	0.00
post-GPI attachment to proteins factor 2 pseudogene	LOC100753912	100753912	0.03	0.24	0.08	0.03	0.02	0.04	0.00	2.75	1.24	0.00	0.00	0.93
metal-response element-binding transcription factor 2 pseudogene	LOC100753919	100753919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dnaJ homolog subfamily B member 6-like	LOC100753920	100753920	0.41	0.11	0.15	0.00	0.06	0.23	9.87	3.66	3.73	0.00	1.03	5.61
chromosome unknown open reading frame, human C11orf65	LOC100753928	100753928	0.02	0.08	0.14	0.10	0.14	0.10	5.32	5.49	9.94	6.95	12.42	10.28
T-cell surface glycoprotein CD3 zeta chain-like	LOC100753930	100753930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T2	LOC100753931	100753931	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf89	LOC100753933	100753933	62.44	61.19	83.23	88.06	80.19	85.11	3528.06	3446.02	4686.39	4839.65	4397.66	4679.89
RCC1 and BTB domain-containing protein 1 pseudogene	LOC100753934	100753934	2.73	2.59	2.58	2.69	2.87	2.90	97.98	84.18	91.91	86.92	79.69	82.25
uncharacterized LOC100753938	LOC100753938	100753938	0.00	0.00	0.00	0.00	0.00	0.11	0.76	0.00	0.00	0.00	0.00	2.80
reactive oxygen species modulator 1 pseudogene	LOC100753939	100753939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-ketoacyl-CoA thiolase B, peroxisomal-like	LOC100753943	100753943	4.37	3.79	4.40	3.32	1.79	1.96	3.80	3.66	4.97	2.32	7.24	2.80
ferritin light chain 1 pseudogene	LOC100753945	100753945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37 pseudogene	LOC100753948	100753948	0.60	1.58	1.38	1.81	2.33	0.28	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a	LOC100753949	100753949	0.65	0.75	0.47	0.30	0.00	0.36	4.56	5.49	3.73	2.32	0.00	2.80
glycosyltransferase 6 domain-containing protein 1-like	LOC100753950	100753950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100753951	100753951	0.17	0.36	0.18	0.04	0.20	0.09	2.28	5.49	3.73	0.00	6.21	3.74
deoxycytidine kinase pseudogene	LOC100753952	100753952	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	3.73	0.00	0.00	0.00

zinc finger protein 345-like	LOC100753956	100753956	4.85	4.84	5.01	5.57	5.16	4.87	352.43	344.05	373.87	413.73	373.63	357.98
pre-mRNA-splicing factor SLU7 pseudogene	LOC100753957	100753957	0.08	0.07	0.00	0.00	0.04	0.03	3.04	2.75	0.00	0.00	3.10	0.93
sepiapterin reductase-like	LOC100753961	100753961	0.78	0.54	0.71	1.16	0.98	1.28	32.66	29.28	36.02	48.67	45.54	53.28
zinc finger protein 58-like	LOC100753964	100753964	0.18	0.17	0.36	0.43	0.39	0.32	12.15	13.73	24.84	17.38	22.77	16.82
olfactory receptor 5B3	LOC100753967	100753967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-oxoisovalerate dehydrogenase subunit beta, mitochondrial pseudogene	LOC100753968	100753968	0.07	0.39	0.00	0.06	0.05	0.09	1.52	10.07	0.00	1.16	2.07	1.87
olfactory receptor 6	LOC100753969	100753969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11G2-like	LOC100753970	100753970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sialic acid-binding Ig-like lectin 10	LOC100753971	100753971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
seminal plasma protein BSP-30 kDa-like	LOC100753974	100753974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM156A/FAM156B-like	LOC100753978	100753978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA-binding protein FUS pseudogene	LOC100753979	100753979	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100753980	LOC100753980	100753980	6.37	5.77	7.13	6.16	8.01	7.41	347.11	398.95	411.13	416.05	392.26	409.39
uncharacterized LOC100753984	LOC100753984	100753984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 4-like	LOC100753988	100753988	10.04	0.00	0.00	0.00	0.00	4.38	3.04	0.00	0.00	0.00	0.00	0.93
polyadenylate-binding protein 1-like 2	LOC100753990	100753990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100753991	100753991	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC100753993	100753993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

zinc finger protein OZF-like	LOC100753996	100753996	5.19	5.09	5.57	6.81	6.41	6.49	543.83	528.89	616.08	749.82	704.83	708.48
transmembrane protein 127 pseudogene	LOC100754000	100754000	0.07	0.15	0.00	0.07	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch-like protein 38	LOC100754001	100754001	0.15	0.11	0.04	0.04	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-processing-splicing factor 8	LOC100754005	100754005	78.74	85.52	86.42	88.82	86.61	87.49	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 102-like	LOC100754012	100754012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C14orf53-like	LOC100754013	100754013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme C-like	LOC100754015	100754015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin-1	LOC100754018	100754018	0.46	0.53	0.05	0.05	0.14	0.16	81.27	81.44	6.21	9.27	21.73	23.37
NUT family member Gm806-like	LOC100754022	100754022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1086	LOC100754026	100754026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-binding protein RBBP4 pseudogene	LOC100754035	100754035	0.51	0.49	0.34	0.47	0.30	0.43	12.15	8.24	7.45	10.43	8.28	10.28
uncharacterized LOC100754036	LOC100754036	100754036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf46	LOC100754037	100754037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mas-related G-protein coupled receptor member A	LOC100754040	100754040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c, somatic	LOC100754043	100754043	0.66	0.92	0.32	0.00	0.00	0.25	2.28	3.66	1.24	0.00	0.00	0.93
putative uncharacterized protein	LOC100754044	100754044	1.96	2.03	2.43	1.50	2.23	2.81	50.89	53.99	48.44	38.24	58.99	61.69
TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 pseudogene	LOC100754048	100754048	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane protein 11, mitochondrial pseudogene	LOC100754049	100754049	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	1.16	1.03	0.00

BPI fold-containing family A member 1	LOC100754051	100754051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 6A-like	LOC100754054	100754054	0.07	0.08	0.00	0.00	0.00	0.00	2.28	3.66	0.00	0.00	0.00	0.00
NUT family member Gm806-like	LOC100754055	100754055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C74	LOC100754058	100754058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLV-related proviral Env polyprotein-like	LOC100754059	100754059	6.59	7.26	6.63	6.65	6.56	6.27	260.52	301.05	267.05	271.19	238.05	242.08
keratin-associated protein 20-2-like	LOC100754063	100754063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polymerase delta-interacting protein 3 pseudogene	LOC100754064	100754064	2.09	1.82	1.95	1.27	2.23	1.83	13.67	12.81	9.94	4.64	11.38	13.09
lipid phosphate phosphatase-related protein type 4	LOC100754065	100754065	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
glutathione S-transferase alpha-3-like	LOC100754066	100754066	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit C	LOC100754077	100754077	319.67	308.58	325.62	319.24	305.32	309.80	14017.30	14155.57	14495.15	14190.97	13892.62	13971.44
60S ribosomal protein L35a pseudogene	LOC100754079	100754079	1.45	1.51	0.58	0.53	0.98	3.06	7.60	7.32	2.48	2.32	5.17	15.89
vomeronasal type-1 receptor 4-like	LOC100754080	100754080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatidate phosphatase PPAPDC1A	LOC100754084	100754084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
periphilin-1-like	LOC100754094	100754094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3	LOC100754104	100754104	0.16	0.11	0.03	0.00	0.00	0.00	5.32	3.66	1.24	0.00	1.03	0.00
chromosome unknown open reading frame, human C15orf59	LOC100754105	100754105	0.04	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
Ig lambda chain V-I region BL2-like	LOC100754106	100754106	0.00	0.00	0.00	0.00	0.00	0.00						
chromosome unknown open reading frame, human C1orf50	LOC100754108	100754108	21.36	17.72	19.27	18.67	21.51	21.09	444.33	378.82	393.74	396.35	442.97	452.38

ragulator complex protein LAMTOR2-like	LOC100754114	100754114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
peptidyl-prolyl cis-trans isomerase-like 2	LOC100754115	100754115	0.03	0.00	0.04	0.00	0.02	0.08	1.52	0.00	1.24	0.00	1.03	3.74
olfactory receptor-like protein OLF3	LOC100754121	100754121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100754126	100754126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-splicing factor SLU7-like	LOC100754137	100754137	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
14-3-3 protein sigma	LOC100754138	100754138	0.04	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.16	0.00	0.00
Testis-expressed sequence 13A protein	LOC100754139	100754139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin gamma-B1-like	LOC100754141	100754141	0.52	0.58	0.58	0.66	0.56	0.67	60.00	69.54	70.80	89.24	68.31	86.92
histone H2A.Z pseudogene	LOC100754143	100754143	0.57	0.43	0.54	0.00	0.08	0.00	6.84	5.49	6.21	0.00	1.03	0.00
olfactory receptor 5K1-like	LOC100754148	100754148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel subfamily D member 2 pseudogene	LOC100754151	100754151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamyl-tRNA(Gln) amidotransferase subunit C, mitochondrial pseudogene	LOC100754157	100754157	0.04	0.22	0.00	0.00	0.13	0.23	0.00	2.75	0.00	0.00	3.10	1.87
PHD finger-like domain-containing protein 5A pseudogene	LOC100754158	100754158	0.39	0.19	0.26	0.00	0.22	0.25	3.80	1.83	2.48	0.00	2.07	2.80
vascular non-inflammatory molecule 3-like	LOC100754161	100754161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
fatty acid-binding protein, intestinal	LOC100754164	100754164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger Ran-binding domain-containing protein 2-like	LOC100754166	100754166	8.52	8.06	7.85	7.43	8.37	8.31	259.76	230.59	207.43	152.98	144.90	153.29
calcium-binding mitochondrial carrier protein SCaMC-1	LOC100754168	100754168	19.96	20.31	18.79	18.96	20.95	19.67	1258.56	1298.43	1239.60	1226.14	1374.46	1297.32
olfactory receptor 4K14	LOC100754169	100754169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

mitochondrial fission factor-like	LOC100754170	100754170	0.34	0.21	0.28	0.21	0.23	0.21	8.35	4.58	6.21	5.79	6.21	7.48
myosin light polypeptide 6-like	LOC100754174	100754174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754175	LOC100754175	100754175	2.81	4.22	2.03	4.18	2.46	3.31	66.08	71.37	65.83	84.60	68.31	84.12
cytochrome P450 2C19-like	LOC100754177	100754177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51F2-like	LOC100754179	100754179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small EDRK-rich factor 2 pseudogene	LOC100754183	100754183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B12	LOC100754186	100754186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 2-like	LOC100754200	100754200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polypyrimidine tract-binding protein 1 pseudogene	LOC100754213	100754213	0.15	0.15	0.10	0.00	0.06	0.00	4.56	5.49	3.73	0.00	2.07	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100754219	100754219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
60S ribosomal protein L35 pseudogene	LOC100754220	100754220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-85C-like	LOC100754243	100754243	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
protein MCM10 homolog	LOC100754247	100754247	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone deacetylase 2 pseudogene	LOC100754249	100754249	0.05	0.17	0.26	0.11	0.13	0.18	3.80	9.15	14.91	8.11	5.17	10.28
vomeronasal type-2 receptor 116-like	LOC100754253	100754253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18 pseudogene	LOC100754255	100754255	4.71	5.09	4.66	5.07	4.12	5.90	127.60	142.75	151.53	135.59	78.66	115.90
zinc finger protein 709 pseudogene	LOC100754263	100754263	0.20	0.23	0.30	0.27	0.32	0.31	0.76	0.00	1.24	0.00	0.00	1.87
olfactory receptor 5B2	LOC100754265	100754265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 6	LOC100754267	100754267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4L1	LOC100754268	100754268	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small ubiquitin-related modifier 2 pseudogene	LOC100754272	100754272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter-like	LOC100754273	100754273	0.59	0.63	0.38	0.41	0.18	0.45	12.91	14.64	8.69	9.27	3.10	10.28
U1 small nuclear ribonucleoprotein C pseudogene	LOC100754274	100754274	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM156A/FAM156B-like	LOC100754277	100754277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeromodulin	LOC100754283	100754283	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100754287	100754287	0.00	0.00	0.23	0.11	0.00	0.09	3.04	1.83	6.21	2.32	2.07	2.80
E3 ubiquitin-protein ligase RNF216 pseudogene	LOC100754291	100754291	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein kinase PLK4-like	LOC100754293	100754293	0.34	0.36	0.24	0.18	0.27	0.19	9.87	14.64	6.21	2.32	5.17	5.61
zinc finger protein 271-like	LOC100754294	100754294	0.29	0.44	0.60	0.78	0.88	0.90	9.87	20.13	18.63	24.34	32.08	30.84
nuclear speckle splicing regulatory protein 1 pseudogene	LOC100754295	100754295	0.39	0.29	0.12	0.42	0.14	0.49	8.35	8.24	2.48	11.59	4.14	11.22
olfactory receptor 52B4	LOC100754296	100754296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G-protein coupled receptor 26	LOC100754297	100754297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AP-3 complex subunit sigma-2	LOC100754298	100754298	82.66	90.01	89.83	96.62	102.82	111.00	2147.22	2220.79	2338.85	2373.47	2368.05	2560.99
melanoma-associated antigen 10-like	LOC100754300	100754300	0.24	0.21	0.06	0.25	0.19	0.10	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 140-like	LOC100754307	100754307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme B-like	LOC100754310	100754310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 13J1	LOC100754315	100754315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K3	LOC100754320	100754320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15 pseudogene	LOC100754323	100754323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100754327	100754327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myeloid-associated differentiation marker	LOC100754329	100754329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AP-5 complex subunit mu-1	LOC100754336	100754336	8.54	8.13	9.57	8.90	11.71	11.36	298.50	287.32	341.57	323.34	403.64	403.78
olfactory receptor 8D2-like	LOC100754340	100754340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interleukin enhancer-binding factor 2 pseudogene	LOC100754341	100754341	0.35	0.35	0.21	0.12	0.25	0.15	10.63	8.24	4.97	2.32	8.28	3.74
golgin subfamily A member 7 pseudogene	LOC100754347	100754347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 398	LOC100754349	100754349	3.73	3.73	4.12	4.06	3.98	3.68	435.98	450.20	505.53	487.91	471.95	457.05
olfactory receptor 6C65	LOC100754350	100754350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 20-2-like	LOC100754355	100754355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase-like	LOC100754357	100754357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf57	LOC100754360	100754360	11.28	13.59	16.46	14.95	15.94	14.81	197.48	242.48	303.07	278.14	287.73	266.38
small proline-rich protein 2F-like	LOC100754363	100754363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein NDRG3	LOC100754366	100754366	20.54	19.14	19.22	19.49	24.86	24.00	1374.77	1323.14	1320.34	1323.49	1669.43	1621.65
vomeronasal type-1 receptor 4-like	LOC100754373	100754373	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative deoxyribose-phosphate aldolase pseudogene	LOC100754374	100754374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

egl nine homolog 3	LOC100754377	100754377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 10 pseudogene	LOC100754378	100754378	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
F-box/WD repeat-containing protein 2-like	LOC100754385	100754385	14.65	14.62	17.61	20.03	20.27	18.85	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754387	LOC100754387	100754387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A pseudogene	LOC100754388	100754388	0.10	0.08	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100754391	100754391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H4	LOC100754396	100754396	0.27	0.14	0.41	0.10	0.07	0.07	3.04	1.83	4.97	1.16	2.07	0.93
Ig lambda-2 chain V region-like	LOC100754398	100754398	0.00	0.00	0.00	0.00	0.00	0.00						
keratin, type I cytoskeletal 18 pseudogene	LOC100754405	100754405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor-like protein OLF3	LOC100754411	100754411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100754416	100754416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L37, mitochondrial pseudogene	LOC100754428	100754428	0.04	0.00	0.00	0.06	0.05	0.00	0.76	0.00	0.00	1.16	1.03	0.00
uncharacterized LOC100754429	LOC100754429	100754429	0.07	0.05	0.04	0.06	0.02	0.04	5.32	5.49	3.73	5.79	2.07	3.74
dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial pseudogene	LOC100754435	100754435	2.49	2.15	2.27	1.34	1.59	1.45	148.87	114.38	109.30	68.38	62.10	62.62
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100754438	100754438	0.23	0.40	0.35	0.33	0.96	0.62	11.39	19.22	23.60	16.22	41.40	26.17
chromosome-associated kinesin KIF4A	LOC100754439	100754439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23-like	LOC100754445	100754445	4.97	3.56	1.99	2.04	2.71	1.84	25.06	18.30	9.94	6.95	12.42	8.41
60S ribosomal protein L23a pseudogene	LOC100754447	100754447	0.07	0.17	0.00	0.00	0.20	0.09	1.52	1.83	0.00	0.00	3.10	1.87

60S ribosomal protein L37 pseudogene	LOC100754450	100754450	1.50	0.52	1.45	0.16	0.84	1.55	6.84	1.83	6.21	0.00	3.10	6.54
fatty acid-binding protein, intestinal	LOC100754451	100754451	2.94	3.23	0.90	1.45	1.96	1.76	69.88	81.44	23.60	35.93	48.64	42.99
60S acidic ribosomal protein P1-like	LOC100754453	100754453	1478.70	1514.30	1535.80	897.71	432.67	510.43	7880.98	7616.74	7760.56	4642.63	2723.05	3153.58
olfactory receptor 4K3-like	LOC100754455	100754455	0.00	0.13	0.23	0.22	0.34	0.30	0.00	2.75	6.21	6.95	12.42	11.22
SOSS complex subunit B2 pseudogene	LOC100754456	100754456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(s) subunit alpha-like	LOC100754457	100754457	1.26	1.15	0.37	0.72	0.65	0.39	80.51	71.37	33.54	42.88	41.40	24.30
cytochrome P450 2C28	LOC100754462	100754462	0.06	0.05	0.03	0.00	0.03	0.00	2.28	1.83	3.73	0.00	1.03	0.00
olfactory receptor 51F2	LOC100754464	100754464	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100754472	100754472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2B type F-M-like	LOC100754482	100754482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nicotinamide phosphoribosyltransferase pseudogene	LOC100754483	100754483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100754485	100754485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf88	LOC100754486	100754486	0.12	0.12	0.04	0.19	0.27	0.00	7.60	4.58	1.24	6.95	11.38	1.87
chromatin target of PRMT1 protein pseudogene	LOC100754495	100754495	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L38 pseudogene	LOC100754503	100754503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 5A-1-like	LOC100754508	100754508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclic GMP-AMP synthase-like	LOC100754516	100754516	0.81	0.78	0.49	0.46	0.53	0.40	58.48	64.97	43.47	40.56	41.40	28.97
thymosin beta-10 pseudogene	LOC100754517	100754517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

histone-binding protein RBBP7 pseudogene	LOC100754518	100754518	35.89	36.33	34.86	38.67	36.91	39.88	195.20	176.60	157.75	185.43	155.25	176.65
solute carrier family 25 member 51	LOC100754521	100754521	15.52	16.00	15.81	16.99	20.63	20.21	965.37	1001.96	1001.12	1065.05	1300.98	1289.84
uncharacterized LOC100754524	LOC100754524	100754524	0.00	0.00	0.00	0.00	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00
actin, cytoplasmic 1-like	LOC100754525	100754525	0.14	0.03	0.09	0.00	0.16	0.04	3.80	0.92	2.48	0.00	5.17	1.87
FERM domain-containing protein 8 pseudogene	LOC100754526	100754526	0.43	0.27	0.27	0.58	0.37	0.45	15.19	7.32	8.69	19.70	12.42	14.95
N-acetyllactosaminide alpha-1,3-galactosyltransferase	LOC100754535	100754535	0.04	0.02	0.00	0.00	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
protocadherin-11 X-linked	LOC100754537	100754537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100754540	100754540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen 10	LOC100754546	100754546	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATPase ASNA1 pseudogene	LOC100754550	100754550	0.34	0.39	0.27	0.27	0.36	0.17	9.11	10.98	7.45	9.27	9.31	4.67
olfactory receptor 5B3	LOC100754552	100754552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly [ADP-ribose] polymerase 14-like	LOC100754553	100754553	0.07	0.00	0.00	0.05	0.05	0.04	0.76	0.00	1.24	2.32	3.10	0.00
olfactory receptor 226	LOC100754554	100754554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4L1	LOC100754555	100754555	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754558	LOC100754558	100754558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754561	LOC100754561	100754561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin heavy chain	LOC100754563	100754563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stromelysin-1-like	LOC100754565	100754565	0.29	0.15	0.00	0.00	0.00	0.00	16.71	8.24	0.00	0.00	0.00	0.00

3-hydroxyisobutyrate dehydrogenase, mitochondrial-like	LOC100754568	100754568	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
protein Mis18-beta-like	LOC100754569	100754569	0.26	0.19	0.17	0.00	0.07	0.30	3.80	2.75	2.48	0.00	1.03	3.74
transforming acidic coiled-coil-containing protein 2-like	LOC100754572	100754572	17.23	17.01	17.86	17.55	14.18	14.17	1364.89	1338.69	1383.68	1394.18	1124.00	1143.10
chromosome unknown open reading frame, human C17orf70	LOC100754573	100754573	23.70	23.80	22.87	17.29	11.40	12.55	2198.87	2218.96	2164.96	1641.03	1078.46	1211.33
gastrula zinc finger protein XlCGF26.1-like	LOC100754579	100754579	0.04	0.09	0.05	0.11	0.08	0.14	3.04	4.58	1.24	8.11	7.24	9.35
olfactory receptor 52B4	LOC100754583	100754583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 91-like	LOC100754584	100754584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100754587	100754587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-dependent RNA helicase DDX19A-like	LOC100754589	100754589	25.70	24.59	26.04	27.37	25.57	25.04	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 136-like	LOC100754594	100754594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme C-like	LOC100754595	100754595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L24 pseudogene	LOC100754597	100754597	0.43	0.52	0.47	0.00	0.70	0.27	4.56	5.49	4.97	0.00	7.24	2.80
olfactory receptor 13C2	LOC100754601	100754601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5T3-like	LOC100754607	100754607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 18-like	LOC100754612	100754612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UBA-like domain-containing protein 2 pseudogene	LOC100754613	100754613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipid hydroperoxide glutathione peroxidase, mitochondrial-like	LOC100754616	100754616	0.00	0.00	0.00	0.05	0.00	0.00	0.76	0.92	0.00	2.32	0.00	0.00
short coiled-coil protein pseudogene	LOC100754623	100754623	0.12	0.43	0.00	0.19	0.17	0.08	0.76	2.75	0.00	1.16	1.03	0.00

olfactory receptor 8D2-like	LOC100754624	100754624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-alpha-acetyltransferase 35, NatC auxiliary subunit pseudogene	LOC100754627	100754627	0.03	0.00	0.08	0.06	0.00	0.03	1.52	0.00	4.97	3.48	0.00	1.87
zinc finger protein 282-like	LOC100754633	100754633	20.24	20.68	23.06	18.24	16.69	14.78	1127.16	1161.18	1324.06	1073.16	998.76	936.54
olfactory receptor 6C74	LOC100754634	100754634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2/3 complex subunit 1B pseudogene	LOC100754635	100754635	1.86	2.39	2.79	1.52	2.64	1.81	132.16	116.21	142.84	85.76	78.66	88.79
keratin-associated protein 20-2-like	LOC100754638	100754638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 26-like	LOC100754639	100754639	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small proline-rich protein 2H	LOC100754646	100754646	1.11	0.82	0.90	1.09	1.56	1.54	25.06	21.05	21.12	23.18	42.43	42.99
multifunctional protein ADE2 pseudogene	LOC100754657	100754657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 3A1	LOC100754660	100754660	0.00	0.05	0.05	0.05	0.00	0.00	0.76	1.83	1.24	1.16	0.00	0.00
histo-blood group ABO system transferase 1-like	LOC100754666	100754666	0.13	0.14	0.36	0.56	0.02	0.01	6.08	6.41	17.39	26.66	1.03	0.00
histone H2A.Z	LOC100754667	100754667	46.76	50.56	39.62	23.70	18.31	12.78	319.01	316.60	234.75	152.98	111.78	80.38
non-histone chromosomal protein HMG-17 pseudogene	LOC100754668	100754668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spindlin-2-like	LOC100754669	100754669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase	LOC100754671	100754671	0.07	0.00	0.12	0.11	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
ubiquinol-cytochrome-c reductase complex assembly factor 1	LOC100754679	100754679	45.01	43.37	47.28	47.70	55.68	56.82	3270.58	3189.81	3428.16	3437.36	3989.87	4037.77
elongation factor 1-gamma-like	LOC100754680	100754680	6.93	8.01	7.72	4.30	3.87	3.70	89.63	106.14	105.58	70.69	76.59	60.75
histone H3.1	LOC100754683	100754683	1.16	1.14	0.23	0.52	0.46	0.18	18.23	21.96	6.21	8.11	8.28	2.80

60S ribosomal protein L18 pseudogene	LOC100754684	100754684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754685	LOC100754685	100754685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 18-like	LOC100754689	100754689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 28 pseudogene	LOC100754691	100754691	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC100754693	LOC100754693	100754693	0.14	0.06	0.08	0.00	0.07	0.06	5.32	1.83	1.24	1.16	4.14	4.67
actin, cytoplasmic 1-like	LOC100754694	100754694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6B1	LOC100754700	100754700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100754704	100754704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf15	LOC100754705	100754705	0.62	0.40	0.14	0.45	0.34	0.26	7.60	7.32	4.97	5.79	10.35	6.54
chromosome unknown open reading frame, human C11orf31	LOC100754707	100754707	50.42	54.91	44.82	34.10	31.23	27.21	888.66	967.19	758.92	573.67	535.09	457.05
40S ribosomal protein S11-like	LOC100754710	100754710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin gamma-B6-like	LOC100754716	100754716	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754720	LOC100754720	100754720	11.41	11.04	11.07	13.01	12.89	13.97	250.65	240.65	240.96	273.51	272.20	293.49
60S ribosomal protein L17 pseudogene	LOC100754721	100754721	0.14	0.06	0.15	0.16	0.00	0.17	0.76	0.00	1.24	1.16	0.00	0.93
protein disulfide-isomerase TMX3 pseudogene	LOC100754724	100754724	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Friend virus susceptibility protein 1	LOC100754726	100754726	37.96	34.39	47.67	46.68	38.93	40.51	988.92	943.40	1204.82	1160.08	1078.46	1149.64
60S ribosomal protein L26-like	LOC100754729	100754729	0.21	0.27	0.06	0.27	0.15	0.30	4.56	6.41	1.24	5.79	4.14	7.48
60S ribosomal protein L7a pseudogene	LOC100754732	100754732	0.98	1.06	0.77	0.77	0.76	0.52	4.56	2.75	1.24	2.32	1.03	2.80

25-hydroxycholesterol 7-alpha-hydroxylase	LOC100754734	100754734	7.42	7.29	5.76	5.48	8.91	8.45	726.88	696.34	571.36	521.51	837.30	818.77
olfactory receptor 4K14	LOC100754741	100754741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
suppressor of G2 allele of SKP1 homolog pseudogene	LOC100754742	100754742	1.42	1.06	0.72	0.92	1.00	1.40	38.74	28.37	18.63	26.66	26.91	38.32
low-density lipoprotein receptor-related protein 10 pseudogene	LOC100754745	100754745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-Myc-binding protein-like	LOC100754746	100754746	0.54	0.60	0.75	0.40	0.98	0.84	6.08	9.15	4.97	11.59	8.28	6.54
olfactory receptor 51S1	LOC100754750	100754750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hexokinase-2 pseudogene	LOC100754756	100754756	0.01	0.00	0.04	0.02	0.00	0.02	0.76	0.00	2.48	1.16	0.00	0.93
olfactory receptor 8B12-like	LOC100754758	100754758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoglycerate kinase 1 pseudogene	LOC100754762	100754762	0.21	0.20	0.25	0.15	0.27	0.24	14.43	11.90	14.91	10.43	17.59	14.95
histone H2A-Bbd type 1	LOC100754763	100754763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-II region SESS-like	LOC100754764	100754764	0.00	0.00	0.00	0.00	0.00	0.00						
complement factor H-related protein 4-like	LOC100754768	100754768	5.33	4.81	4.40	3.31	4.46	4.65	186.85	174.77	152.78	122.85	156.28	171.04
olfactory receptor 145-like	LOC100754776	100754776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein SA pseudogene	LOC100754787	100754787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal transducer CD24 pseudogene	LOC100754790	100754790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 300-like	LOC100754794	100754794	2.22	1.91	1.70	1.74	2.10	1.94	201.28	183.01	163.96	156.45	190.44	175.72
60S ribosomal protein L31-like	LOC100754795	100754795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf26	LOC100754798	100754798	2.03	1.89	1.63	1.03	0.48	0.43	260.52	256.21	209.91	147.18	82.80	98.14

transmembrane protein 217	LOC100754804	100754804	0.68	0.62	0.45	0.68	0.81	0.57	13.67	12.81	9.94	18.54	18.63	12.15
BMP/retinoic acid-inducible neural-specific protein 1 pseudogene	LOC100754805	100754805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4F6	LOC100754807	100754807	0.70	0.90	0.34	0.25	0.07	0.05	74.43	82.35	34.78	31.29	19.66	22.43
3-ketoacyl-CoA thiolase B, peroxisomal-like	LOC100754813	100754813	12.28	11.56	14.08	12.70	9.24	10.74	392.68	381.57	462.06	441.55	352.93	405.65
uncharacterized LOC100754820	LOC100754820	100754820	0.05	0.08	0.03	0.00	0.10	0.04	2.28	2.75	1.24	0.00	4.14	1.87
uncharacterized LOC100754823	LOC100754823	100754823	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100754829	100754829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
conserved oligomeric Golgi complex subunit 5	LOC100754837	100754837	14.33	14.86	15.76	16.55	20.14	19.03	761.06	810.72	852.07	876.14	1092.95	992.62
olfactory receptor 5B2	LOC100754840	100754840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly [ADP-ribose] polymerase 9-like	LOC100754841	100754841	0.23	0.22	0.35	0.35	0.50	0.49	12.91	10.98	24.84	17.38	24.84	27.11
olfactory receptor 10A5-like	LOC100754842	100754842	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SIGLEC family-like protein 1	LOC100754844	100754844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein C-like	LOC100754847	100754847	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.03	0.00
60S ribosomal protein L13 pseudogene	LOC100754850	100754850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100754853	100754853	58.24	57.30	74.52	71.99	71.56	73.80	2226.21	2212.55	2836.93	2701.44	2689.93	2738.58
polypyrimidine tract-binding protein 1 pseudogene	LOC100754857	100754857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeromodulin-like	LOC100754858	100754858	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 4B pseudogene	LOC100754862	100754862	0.08	0.17	0.07	0.12	0.10	0.19	3.80	7.32	2.48	4.64	5.17	9.35

chromosome unknown open reading frame, human C11orf74	LOC100754866	100754866	17.43	21.55	16.80	18.21	21.49	19.43	683.59	822.62	617.32	694.19	787.62	736.52
olfactory receptor 52B4	LOC100754870	100754870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100754871	100754871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100754872	LOC100754872	100754872	16.43	15.20	31.40	40.98	80.84	88.21	244.57	235.16	455.85	582.94	1184.02	1210.40
non-histone chromosomal protein HMG-17 pseudogene	LOC100754873	100754873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit alpha type-3 pseudogene	LOC100754878	100754878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen D2	LOC100754879	100754879	9.11	9.58	12.19	10.87	9.03	10.12	552.94	590.20	763.88	667.54	566.14	621.56
KH domain-containing, RNA-binding, signal transduction-associated protein 1 pseudogene	LOC100754880	100754880	0.18	0.43	0.04	0.16	0.21	0.16	4.56	12.81	1.24	4.64	6.21	4.67
taste receptor type 2 member 109-like	LOC100754882	100754882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme-like protein 2	LOC100754885	100754885	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36a	LOC100754891	100754891	138.99	141.47	128.77	133.11	141.35	157.49	120.01	92.42	89.43	62.58	90.04	93.47
olfactory receptor 4C5-like	LOC100754894	100754894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial pseudogene	LOC100754896	100754896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bcl-2-like protein 13	LOC100754898	100754898	57.42	58.28	66.45	64.30	60.54	64.14	4361.27	4395.82	5158.39	5136.33	4840.63	5099.56
olfactory receptor 998	LOC100754899	100754899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-like modifier-activating enzyme ATG7	LOC100754902	100754902	31.92	28.99	38.98	34.54	32.85	36.05	1222.86	1113.60	1486.78	1281.77	1277.17	1413.22
olfactory receptor 7E24-like	LOC100754904	100754904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycylpeptide N-tetradecanoyltransferase 1-like	LOC100754906	100754906	0.46	0.24	0.45	0.47	0.48	0.49	27.34	14.64	23.60	28.97	27.94	30.84

40S ribosomal protein S2 pseudogene	LOC100754909	100754909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100754910	100754910	1.03	1.92	1.35	0.70	1.58	0.39	4.56	12.81	8.69	3.48	11.38	2.80
40S ribosomal protein SA-like	LOC100754912	100754912	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf105	LOC100754915	100754915	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	2.32	1.03	0.93
zinc finger protein 120-like	LOC100754918	100754918	0.05	0.06	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 29-like	LOC100754921	100754921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis-associated protein 4 pseudogene	LOC100754922	100754922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9K2-like	LOC100754927	100754927	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 20-2-like	LOC100754931	100754931	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin-3-like	LOC100754933	100754933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
placenta-specific gene 8 protein-like	LOC100754936	100754936	0.00	0.00	0.00	0.00	0.33	0.46	0.00	0.00	0.00	0.00	2.07	2.80
cyclin-dependent kinases regulatory subunit 2 pseudogene	LOC100754937	100754937	0.77	2.25	3.39	1.80	2.63	1.42	3.80	10.98	16.15	8.11	12.42	6.54
immunity-related GTPase family M protein 1-like	LOC100754939	100754939	0.01	0.02	0.00	0.00	0.04	0.05	0.76	0.92	0.00	0.00	2.07	1.87
galectin-2-like	LOC100754948	100754948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 3A1	LOC100754954	100754954	0.03	0.14	0.11	0.10	0.09	0.08	2.28	2.75	2.48	3.48	4.14	2.80
spermine synthase pseudogene	LOC100754960	100754960	0.66	0.73	0.77	0.31	0.54	0.43	13.67	15.56	14.91	4.64	9.31	7.48
keratin, type I cytoskeletal 12	LOC100754962	100754962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AKT-interacting protein pseudogene	LOC100754965	100754965	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	2.48	0.00	1.03	0.00

lipid phosphate phosphatase-related protein type 2	LOC100754967	100754967	0.04	0.09	0.14	0.05	0.05	0.04	6.84	10.07	13.66	8.11	5.17	7.48
60S ribosomal protein L17 pseudogene	LOC100754971	100754971	0.16	0.11	0.22	0.03	0.13	0.12	0.76	0.00	1.24	0.00	0.00	0.93
histone H1.1	LOC100754977	100754977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin iota chain-like	LOC100754979	100754979	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L26-like 1 pseudogene	LOC100754980	100754980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromobox protein homolog 3-like	LOC100754983	100754983	0.54	0.30	0.59	0.51	0.59	0.52	0.00	3.66	3.73	3.48	2.07	2.80
periphilin-1-like	LOC100754987	100754987	0.18	0.42	0.15	0.13	0.47	0.43	121.53	129.93	115.51	147.18	138.69	128.05
transaldolase pseudogene	LOC100754988	100754988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A5	LOC100754993	100754993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100754997	100754997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC100755006	100755006	3.81	3.43	4.23	4.51	4.85	4.60	462.56	434.64	535.34	588.73	627.20	575.76
actin-related protein 2/3 complex subunit 1A pseudogene	LOC100755008	100755008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
orphan sodium- and chloride-dependent neurotransmitter transporter NTT5-like	LOC100755013	100755013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U6 snRNA-associated Sm-like protein LSm5 pseudogene	LOC100755017	100755017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-like protein FUBI	LOC100755019	100755019	6.45	6.78	6.11	4.78	3.08	2.95	76.71	66.80	60.86	40.56	37.26	42.99
glutathione S-transferase A1-like	LOC100755023	100755023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trace amine-associated receptor 2	LOC100755026	100755026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIP41-like protein pseudogene	LOC100755027	100755027	1.08	1.45	1.21	1.40	1.30	1.76	58.48	56.73	45.96	41.72	32.08	42.06

DNA-directed RNA polymerases I, II, and III subunit RPABC3-like	LOC100755028	100755028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F21-like	LOC100755034	100755034	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit gamma, mitochondrial pseudogene	LOC100755035	100755035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S10 pseudogene	LOC100755038	100755038	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ornithine decarboxylase pseudogene	LOC100755039	100755039	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
ATP-dependent DNA helicase Q5	LOC100755041	100755041	10.52	9.32	11.55	9.70	8.61	9.42	603.83	549.94	658.31	549.33	477.13	528.09
G1/S-specific cyclin-D3 pseudogene	LOC100755042	100755042	0.00	0.04	0.00	0.06	0.00	0.05	0.00	0.92	0.00	1.16	0.00	0.93
olfactory receptor 51F2	LOC100755043	100755043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf71	LOC100755045	100755045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100755047	100755047	0.68	1.24	0.59	0.61	1.25	0.00	1.52	6.41	2.48	3.48	3.10	0.00
60 kDa heat shock protein, mitochondrial pseudogene	LOC100755049	100755049	0.16	0.19	0.25	0.15	0.17	0.11	6.08	6.41	9.94	6.95	6.21	2.80
selenoprotein W pseudogene	LOC100755052	100755052	10.64	7.68	8.35	7.42	5.11	9.72	38.74	25.62	32.29	23.18	17.59	26.17
acyl-coenzyme A synthetase ACSM4, mitochondrial	LOC100755056	100755056	0.00	0.00	0.00	0.00	0.00	0.00	1.52	3.66	2.48	3.48	1.03	4.67
40S ribosomal protein S15a-like	LOC100755058	100755058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
up-regulator of cell proliferation pseudogene	LOC100755059	100755059	0.01	0.02	0.02	0.03	0.03	0.01	0.76	1.83	0.00	2.32	2.07	0.93
swi5-dependent recombination DNA repair protein 1 homolog	LOC100755061	100755061	45.36	43.04	44.62	47.31	56.92	55.82	2186.71	2059.74	2179.86	2269.17	2704.42	2667.55
uncharacterized LOC100755064	LOC100755064	100755064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial thiamine pyrophosphate carrier pseudogene	LOC100755065	100755065	0.05	0.04	0.00	0.00	0.07	0.00	0.00	0.00	1.24	0.00	0.00	0.00

GSK-3-binding protein FRAT2-like	LOC100755069	100755069	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
torsin-1A-interacting protein 2	LOC100755074	100755074	8.03	7.40	6.89	7.41	6.06	6.99	603.07	551.77	535.34	552.80	465.74	522.48
guanine nucleotide-binding protein subunit beta-2-like 1 pseudogene	LOC100755080	100755080	15.58	17.01	18.32	13.21	11.43	11.30	1233.49	1358.82	1428.40	952.63	576.49	692.59
40S ribosomal protein S19 pseudogene	LOC100755081	100755081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin Nup43 pseudogene	LOC100755090	100755090	0.19	0.18	0.09	0.09	0.17	0.10	5.32	5.49	2.48	2.32	6.21	2.80
PCNA-associated factor pseudogene	LOC100755094	100755094	0.17	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3 pseudogene	LOC100755096	100755096	0.00	0.00	0.00	0.00	0.00	0.00	6.08	5.49	7.45	4.64	7.24	0.00
olfactory receptor 10H2	LOC100755097	100755097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triosephosphate isomerase pseudogene	LOC100755101	100755101	24.90	23.86	23.62	9.92	6.26	6.29	234.70	256.21	217.37	96.19	52.78	68.23
chromosome unknown open reading frame, human C11orf97	LOC100755104	100755104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyadenylate-binding protein 4 pseudogene	LOC100755107	100755107	3.41	3.13	2.31	3.40	2.43	2.80	85.83	75.03	58.38	82.28	67.27	80.38
carbonyl reductase [NADPH] 1 pseudogene	LOC100755108	100755108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thymidylate synthase pseudogene	LOC100755111	100755111	0.14	0.07	0.04	0.21	0.07	0.03	3.80	1.83	1.24	5.79	2.07	0.93
ribosome biogenesis protein NSA2 homolog pseudogene	LOC100755115	100755115	15.83	14.64	12.87	13.08	14.25	13.77	129.12	109.80	86.95	66.06	86.94	71.03
vomeronasal type-2 receptor 116-like	LOC100755119	100755119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerases I, II, and III subunit RPABC5	LOC100755123	100755123	0.00	0.00	0.00	0.00	0.00	0.00	3.04	2.75	2.48	3.48	0.00	0.00
melanoma-associated antigen 10-like	LOC100755124	100755124	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 58-like	LOC100755127	100755127	1.16	0.86	1.03	0.91	1.44	1.45	34.94	32.94	31.05	27.81	39.33	33.65

guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2	LOC100755128	100755128	0.19	0.00	0.00	0.32	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
olfactory receptor 5B12-like	LOC100755130	100755130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly [ADP-ribose] polymerase 14-like	LOC100755131	100755131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A5	LOC100755132	100755132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100755134	100755134	0.05	0.04	0.06	0.14	0.00	0.10	0.76	0.00	1.24	1.16	0.00	1.87
putative protein FAM47D	LOC100755136	100755136	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
Krueppel-like factor 10 pseudogene	LOC100755140	100755140	0.21	0.05	0.11	0.03	0.03	0.08	6.84	1.83	3.73	1.16	1.03	2.80
CCR4-NOT transcription complex subunit 2	LOC100755143	100755143	80.21	79.04	70.47	84.59	84.72	77.83	3149.05	3037.00	2803.39	3153.42	3351.29	3002.16
cyclin-G1 pseudogene	LOC100755148	100755148	0.17	0.08	0.08	0.00	0.00	0.08	18.23	19.22	13.66	4.64	9.31	8.41
olfactory receptor 10AD1-like	LOC100755150	100755150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adrenodoxin-like	LOC100755157	100755157	0.00	0.15	0.00	0.09	0.21	0.08	0.00	1.83	0.00	1.16	2.07	0.93
olfactory receptor 10T2	LOC100755158	100755158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100755160	100755160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PHD finger protein 20-like protein 1	LOC100755163	100755163	4.10	4.10	2.89	2.57	3.39	3.59	508.13	473.99	345.30	316.39	406.75	430.88
R-spondin-3	LOC100755164	100755164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 129-like	LOC100755171	100755171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S9 pseudogene	LOC100755172	100755172	0.77	0.31	0.21	0.10	0.18	0.19	9.87	7.32	2.48	2.32	2.07	1.87
granzyme-like protein 2	LOC100755174	100755174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

eukaryotic translation initiation factor 1 pseudogene	LOC100755183	100755183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin beta-4B chain pseudogene	LOC100755185	100755185	0.00	0.03	0.04	0.04	0.00	0.00	0.76	0.92	2.48	1.16	0.00	0.00
olfactory receptor 1002	LOC100755188	100755188	5.64	5.14	2.49	3.00	1.50	1.38	799.04	730.20	357.72	456.61	215.28	199.08
class I histocompatibility antigen, Gogo-A*0101 alpha chain-like	LOC100755192	100755192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 18-like	LOC100755193	100755193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyhomeotic-like protein 2 pseudogene	LOC100755194	100755194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
eukaryotic translation initiation factor 5A-1-like	LOC100755196	100755196	90.73	85.55	87.68	68.24	54.55	60.77	1964.17	1794.38	1849.47	1389.54	1097.09	1243.11
chromosome unknown open reading frame, human C12orf71	LOC100755199	100755199	0.02	0.03	0.08	0.00	0.13	0.11	0.76	0.92	2.48	0.00	4.14	3.74
thioredoxin domain-containing protein 17 pseudogene	LOC100755206	100755206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 8A, mitochondrial	LOC100755207	100755207	183.84	177.67	179.48	156.12	132.33	133.57	2090.25	2003.01	1988.58	1698.98	1468.65	1480.52
solute carrier family 22 member 21	LOC100755213	100755213	0.07	0.11	0.07	0.10	0.16	0.02	0.00	0.00	0.00	0.00	0.00	0.00
calcium-binding and coiled-coil domain-containing protein 2 pseudogene	LOC100755214	100755214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7-like	LOC100755218	100755218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9K2	LOC100755219	100755219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 8 pseudogene	LOC100755220	100755220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 8-1	LOC100755222	100755222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial inner membrane protease ATP23 homolog pseudogene	LOC100755224	100755224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunity-related GTPase family M protein 1-like	LOC100755228	100755228	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	0.00	0.00

uncharacterized LOC100755231	LOC100755231	100755231	22.30	23.36	26.66	24.44	26.90	22.76	4641.54	4625.49	5339.73	5062.16	5558.91	5426.69
small proline-rich protein 3	LOC100755232	100755232	0.05	0.03	0.21	0.12	0.07	0.13	1.52	0.92	6.21	3.48	2.07	5.61
type-1A angiotensin II receptor	LOC100755233	100755233	0.19	0.20	0.13	0.34	0.25	0.15	11.39	13.73	11.18	13.91	16.56	9.35
sperm motility kinase-like	LOC100755238	100755238	0.00	0.00	0.04	0.00	0.00	0.00	0.76	0.00	2.48	1.16	0.00	0.00
THO complex subunit 2	LOC100755241	100755241	11.14	10.56	5.77	9.22	11.97	10.08	1316.28	1251.77	981.25	1211.07	1465.54	1258.07
olfactory receptor 1D2	LOC100755243	100755243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.93
disintegrin and metalloproteinase domain-containing protein 5	LOC100755245	100755245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100755247	100755247	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thyroglobulin-like	LOC100755249	100755249	0.07	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
developmentally-regulated GTP-binding protein 1-like	LOC100755253	100755253	0.97	1.12	0.76	1.04	1.21	1.26	22.03	23.79	13.66	19.70	23.80	24.30
cytochrome P450 26C1	LOC100755258	100755258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
double homeobox protein 4C-like	LOC100755269	100755269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A14	LOC100755277	100755277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoglycerate kinase 1 pseudogene	LOC100755281	100755281	0.07	0.06	0.04	0.07	0.04	0.00	0.76	0.92	0.00	0.00	0.00	0.00
40S ribosomal protein S27-like	LOC100755284	100755284	9.23	7.17	4.68	4.44	7.46	7.81	4.56	7.32	2.48	2.32	4.14	6.54
CD209 antigen-like protein 2	LOC100755286	100755286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf152	LOC100755291	100755291	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
protocadherin gamma-B5-like	LOC100755294	100755294	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

14-3-3 protein epsilon pseudogene	LOC100755297	100755297	118.01	106.41	95.93	88.34	116.76	115.59	1823.65	1732.16	1597.32	1512.39	1848.49	1889.90
protein FAM49B pseudogene	LOC100755301	100755301	4.40	4.12	2.53	2.31	2.44	2.49	114.69	107.06	60.86	54.47	63.13	67.30
40S ribosomal protein SA pseudogene	LOC100755302	100755302	10.57	11.24	11.68	7.16	6.75	7.21	211.15	224.18	243.45	151.82	138.69	147.68
F-box-like/WD repeat-containing protein TBL1X	LOC100755304	100755304	46.41	46.79	43.26	48.03	49.27	50.89	7237.65	7352.29	6896.07	7507.48	7694.09	7938.15
C-type lectin domain family 4 member K-like	LOC100755310	100755310	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
trace amine-associated receptor 7e-like	LOC100755312	100755312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf26	LOC100755317	100755317	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
putative olfactory receptor GPCRLTM7	LOC100755320	100755320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unconventional myosin-XVB-like	LOC100755327	100755327	0.08	0.07	0.07	0.04	0.04	0.03	29.62	22.88	22.36	19.70	12.42	14.02
olfactory receptor 52R1-like	LOC100755329	100755329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase 2B-like	LOC100755333	100755333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylamine N-acetyltransferase 1	LOC100755335	100755335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52K1-like	LOC100755336	100755336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C1orf228-like	LOC100755338	100755338	0.08	0.09	0.00	0.06	0.04	0.05	4.56	3.66	0.00	2.32	2.07	2.80
vomeronasal type-2 receptor 116-like	LOC100755343	100755343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100755357	LOC100755357	100755357	0.31	0.46	0.21	0.17	0.10	0.11	15.95	21.96	7.45	8.11	8.28	3.74
olfactory receptor 2B6-like	LOC100755362	100755362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100755363	100755363	1.76	1.79	1.98	2.53	2.73	2.40	144.31	148.24	165.20	203.97	221.49	196.28

alpha-defensin 3-like	LOC100755370	100755370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100755372	100755372	0.51	0.85	0.51	0.24	0.19	0.20	10.63	18.30	11.18	4.64	3.10	6.54
E3 ubiquitin-protein ligase Hakai pseudogene	LOC100755373	100755373	0.12	0.05	0.00	0.00	0.00	0.10	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf24	LOC100755377	100755377	23.95	24.21	27.26	22.29	14.87	17.10	301.54	317.52	344.06	295.52	210.10	222.45
cytochrome P450 4F4	LOC100755384	100755384	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 43-like	LOC100755399	100755399	0.00	0.29	0.00	0.15	0.14	0.06	1.52	6.41	1.24	2.32	2.07	0.93
vomeronasal type-1 receptor 4-like	LOC100755405	100755405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S16 pseudogene	LOC100755408	100755408	22.02	17.31	19.05	9.83	14.62	22.92	135.96	106.14	111.79	57.95	91.08	143.94
olfactory receptor 5B12-like	LOC100755414	100755414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase DTX3L-like	LOC100755415	100755415	13.85	13.83	8.91	9.70	11.14	11.45	1358.06	1407.32	921.63	1015.21	1168.50	1164.60
olfactory receptor 10A4	LOC100755416	100755416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock cognate 71 kDa protein pseudogene	LOC100755418	100755418	115.58	113.30	137.53	140.04	114.83	121.77	4949.92	4843.27	5993.07	6167.77	5033.14	5383.70
uncharacterized LOC100755420	LOC100755420	100755420	0.14	0.07	0.09	0.30	0.08	0.10	3.80	1.83	3.73	9.27	2.07	3.74
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100755422	100755422	0.15	0.25	0.09	0.14	0.13	0.11	0.76	5.49	0.00	2.32	1.03	1.87
UDP-glucuronosyltransferase 1-6	LOC100755423	100755423	21.66	22.45	14.98	14.31	19.18	20.47	1576.80	1646.15	1045.84	1008.26	1329.96	1434.72
zinc finger FYVE domain-containing protein 1 pseudogene	LOC100755425	100755425	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-12-like	LOC100755426	100755426	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced very large GTPase 1	LOC100755428	100755428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

nucleosome assembly protein 1-like 1 pseudogene	LOC100755430	100755430	0.16	0.28	0.24	0.15	0.45	0.20	4.56	6.41	6.21	4.64	10.35	6.54
T-complex protein 1 subunit gamma pseudogene	LOC100755434	100755434	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
olfactory receptor 10AD1-like	LOC100755435	100755435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain 1 pseudogene	LOC100755438	100755438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100755443	100755443	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 502	LOC100755444	100755444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2H2-like	LOC100755448	100755448	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S4, X isoform-like	LOC100755449	100755449	1.48	1.48	1.39	0.83	1.07	0.79	73.68	63.14	55.89	39.40	57.96	41.13
forkhead box protein P4 pseudogene	LOC100755450	100755450	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100755453	LOC100755453	100755453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras-related protein Rab-3D	LOC100755455	100755455	8.62	8.10	9.97	8.36	7.50	7.95	825.62	792.42	940.26	762.57	662.39	727.17
cytochrome c oxidase subunit 5A, mitochondrial pseudogene	LOC100755457	100755457	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 109-like	LOC100755460	100755460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mast cell protease 8-like	LOC100755462	100755462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIMS-binding protein 3	LOC100755463	100755463	0.04	0.09	0.04	0.07	0.06	0.05	7.60	11.90	4.97	10.43	9.31	9.35
60S ribosomal protein L27a pseudogene	LOC100755465	100755465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C46-like	LOC100755472	100755472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich secretory protein 1-like	LOC100755475	100755475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

murinoglobulin-1-like	LOC100755476	100755476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9G4	LOC100755477	100755477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class I histocompatibility antigen, A-32 alpha chain-like	LOC100755481	100755481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative gustatory receptor clone PTE01	LOC100755482	100755482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B2	LOC100755483	100755483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
snRNA-activating protein complex subunit 2-like	LOC100755484	100755484	0.05	0.07	0.06	0.06	0.10	0.07	3.04	3.66	2.48	5.79	5.17	4.67
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100755494	100755494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinase 4 pseudogene	LOC100755502	100755502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinal guanylyl cyclase 2-like	LOC100755503	100755503	0.02	0.02	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
60S acidic ribosomal protein P1-like	LOC100755504	100755504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ER membrane protein complex subunit 7 pseudogene	LOC100755505	100755505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A7	LOC100755509	100755509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100755510	100755510	0.48	0.84	0.60	0.29	0.42	0.49	6.08	10.07	7.45	3.48	5.17	5.61
keratin-associated protein 7-1	LOC100755511	100755511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100755515	100755515	1.31	0.70	0.43	0.56	0.69	0.60	9.11	1.83	1.24	2.32	6.21	3.74
40S ribosomal protein S21 pseudogene	LOC100755516	100755516	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.92	1.24	0.00	0.00	0.93
small proline-rich protein 2E-like	LOC100755523	100755523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 18-like	LOC100755537	100755537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

E3 ubiquitin-protein ligase RNF216-like	LOC100755539	100755539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2W1-like	LOC100755542	100755542	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 26A1	LOC100755549	100755549	0.08	0.03	0.07	0.06	0.06	0.08	3.80	0.92	2.48	2.32	3.10	2.80
40S ribosomal protein S29 pseudogene	LOC100755557	100755557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf85	LOC100755558	100755558	91.39	92.10	103.80	102.56	88.97	94.64	3893.40	3923.66	4445.43	4328.57	3766.32	4023.75
E3 ubiquitin-protein ligase TRAF7 pseudogene	LOC100755561	100755561	1.08	1.10	1.19	1.07	0.88	1.18	45.57	43.92	48.44	42.88	37.26	44.86
olfactory receptor 2A2-like	LOC100755570	100755570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1052-like	LOC100755574	100755574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD209 antigen-like protein C	LOC100755579	100755579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L23 pseudogene	LOC100755584	100755584	0.09	0.00	0.00	0.00	0.25	0.12	6.84	2.75	1.24	1.16	6.21	2.80
SH3 and cysteine-rich domain-containing protein 3	LOC100755585	100755585	39.13	39.09	42.01	39.52	33.64	32.40	4957.51	5109.55	5344.70	5120.11	4362.47	4201.34
charged multivesicular body protein 1b-2	LOC100755586	100755586	35.04	36.13	33.31	36.49	41.04	39.85	1294.25	1356.08	1201.10	1315.37	1480.03	1428.18
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100755589	100755589	0.19	0.27	0.10	0.20	0.13	0.04	4.56	6.41	2.48	4.64	3.10	0.93
hypothetical protein	LOC100755591	100755591	31.54	31.10	32.99	26.95	25.85	27.20	922.84	900.39	942.74	746.34	748.30	750.54
hemK methyltransferase family member 2 pseudogene	LOC100755595	100755595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde dehydrogenase family 3 member B1	LOC100755596	100755596	0.07	0.07	0.06	0.11	0.10	0.04	2.28	6.41	3.73	6.95	5.17	1.87
alpha-enolase pseudogene	LOC100755603	100755603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trace amine-associated receptor 9	LOC100755605	100755605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

putative uncharacterized protein C14orf25	LOC100755606	100755606	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.92	1.24	0.00	2.07	0.93
spindlin-2B-like	LOC100755607	100755607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf3	LOC100755608	100755608	31.59	37.41	28.51	24.40	35.43	27.22	635.73	737.52	535.34	515.72	724.49	587.91
chromosome unknown open reading frame, human C14orf28	LOC100755612	100755612	2.28	2.38	2.18	2.35	2.36	2.75	82.03	81.44	78.25	84.60	91.08	103.75
olfactory receptor 4K3-like	LOC100755613	100755613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleolar complex protein 3 homolog pseudogene	LOC100755617	100755617	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
3-hydroxyacyl-CoA dehydrogenase type-2 pseudogene	LOC100755628	100755628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 56A4	LOC100755629	100755629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rho guanine nucleotide exchange factor 38	LOC100755633	100755633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B4-like	LOC100755634	100755634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iron-sulfur cluster assembly 1 homolog, mitochondrial pseudogene	LOC100755638	100755638	1.14	0.84	1.70	1.14	1.25	0.49	9.11	7.32	13.66	10.43	7.24	8.41
peptidyl-prolyl cis-trans isomerase D-like	LOC100755641	100755641	20.43	20.80	16.71	16.12	17.88	16.92	558.26	570.07	458.33	439.23	491.62	472.01
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100755643	100755643	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein light chain 1, cytoplasmic-like	LOC100755644	100755644	4.51	5.26	5.67	3.80	5.68	2.40	9.87	10.07	17.39	9.27	15.52	8.41
uncharacterized LOC100755646	LOC100755646	100755646	146.99	143.46	128.59	132.40	163.07	163.10	1099.05	1068.76	971.31	956.11	1210.93	1232.83
non-histone chromosomal protein HMG-17 pseudogene	LOC100755649	100755649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 258 pseudogene	LOC100755652	100755652	0.00	0.46	0.00	0.00	0.00	0.54	13.67	12.81	9.94	9.27	5.17	12.15
chromosome unknown open reading frame, human CXorf36	LOC100755653	100755653	0.02	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00

olfactory receptor 2J3-like	LOC100755654	100755654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 728-like	LOC100755655	100755655	2.61	2.59	3.09	3.39	3.86	3.23	274.95	263.53	329.15	376.65	408.82	350.50
serine/threonine-protein kinase WNK1	LOC100755657	100755657	44.15	44.13	37.56	43.45	45.14	41.40	11716.65	11751.78	10306.84	11728.27	12105.20	11119.77
pyruvate kinase PKM pseudogene	LOC100755661	100755661	3.19	3.11	2.64	1.69	2.07	2.00	107.85	104.31	95.64	55.63	70.38	72.90
U3 small nucleolar RNA-interacting protein 2 pseudogene	LOC100755675	100755675	0.03	0.02	0.00	0.04	0.02	0.05	1.52	0.92	0.00	2.32	1.03	2.80
zinc finger protein 878-like	LOC100755677	100755677	3.90	3.95	3.61	4.47	5.14	4.92	1219.06	1242.62	1135.27	1408.09	1601.12	1546.88
late cornified envelope protein 1C-like	LOC100755687	100755687	1.03	0.99	0.94	0.96	2.04	1.97	110.13	104.31	106.82	106.62	214.24	216.84
ubiquitin carboxyl-terminal hydrolase 12 pseudogene	LOC100755689	100755689	1.03	0.91	0.37	1.21	1.20	0.71	33.42	31.11	16.15	35.93	39.33	26.17
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100755694	100755694	73.27	87.58	72.08	52.95	36.82	33.05	41.02	48.50	42.23	28.97	32.08	22.43
vomeronasal type-1 receptor 4-like	LOC100755698	100755698	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100755699	LOC100755699	100755699	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
thioredoxin-like protein 4A	LOC100755704	100755704	9.83	8.99	6.01	2.61	1.41	1.04	48.61	41.18	31.05	11.59	4.14	3.74
olfactory receptor 5B3-like	LOC100755706	100755706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2D2	LOC100755708	100755708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 761-like	LOC100755709	100755709	0.00	0.07	0.02	0.04	0.08	0.00	0.76	3.66	1.24	2.32	4.14	0.93
7,8-dihydro-8-oxoguanine triphosphatase pseudogene	LOC100755712	100755712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosome biogenesis regulatory protein homolog	LOC100755718	100755718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 2AG1-like	LOC100755721	100755721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 10AD1-like	LOC100755728	100755728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TBC1 domain family member 1	LOC100755731	100755731	34.89	36.44	39.18	43.01	43.34	42.19	2058.35	2173.20	2378.60	2572.80	2591.61	2520.80
adenosine receptor A3	LOC100755732	100755732	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100755733	100755733	1.16	1.81	2.06	0.93	1.13	0.75	31.90	32.94	39.75	12.75	28.98	15.89
uncharacterized LOC100755734	LOC100755734	100755734	1.37	1.46	1.56	1.28	1.36	1.26	30.38	35.69	38.50	27.81	33.12	28.97
protein maternal effect lethal 26-like	LOC100755736	100755736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 502-like	LOC100755737	100755737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100755740	100755740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2B6-like	LOC100755741	100755741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 2	LOC100755747	100755747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L32 pseudogene	LOC100755748	100755748	16.19	18.91	17.81	12.33	17.23	14.68	106.34	129.93	114.27	84.60	111.78	73.84
microtubule-associated proteins 1A/1B light chain 3B pseudogene	LOC100755757	100755757	1.37	1.50	1.54	0.74	1.55	0.72	13.67	19.22	17.39	6.95	19.66	9.35
60S ribosomal protein L26-like	LOC100755759	100755759	0.49	0.04	0.38	0.32	0.28	0.19	3.80	0.92	4.97	2.32	1.03	1.87
olfactory receptor 4C13	LOC100755766	100755766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-2-macroglobulin-like	LOC100755770	100755770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
class I histocompatibility antigen, Gogo-B*0101 alpha chain-like	LOC100755775	100755775	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100755776	100755776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S4, X isoform-like	LOC100755788	100755788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C2orf74	LOC100755791	100755791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein light chain 1, cytoplasmic	LOC100755794	100755794	220.53	220.26	255.68	230.94	213.29	198.50	1316.28	1368.89	1535.22	1350.14	1216.11	1084.22
hypothetical protein	LOC100755802	100755802	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.92	0.00	1.16	0.00	1.87
olfactory receptor 6C74	LOC100755803	100755803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5-like	LOC100755804	100755804	0.03	0.08	0.06	0.05	0.19	0.04	0.76	1.83	1.24	1.16	4.14	0.93
keratin-associated protein 11-1	LOC100755805	100755805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S7 pseudogene	LOC100755806	100755806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100755807	100755807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thymidine kinase, cytosolic pseudogene	LOC100755810	100755810	1.24	0.73	0.89	0.55	0.58	0.56	0.00	0.92	1.24	0.00	0.00	0.00
60S ribosomal protein L18 pseudogene	LOC100755814	100755814	11.89	12.31	11.45	8.77	7.01	6.82	157.98	171.11	173.89	134.43	85.90	88.79
chromosome unknown open reading frame, human C11orf49	LOC100755821	100755821	21.97	23.12	27.77	26.61	25.61	25.48	1102.09	1130.07	1335.24	1240.04	1166.43	1204.79
GRB2-associated-binding protein 2-like	LOC100755822	100755822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100755826	100755826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 1-like	LOC100755832	100755832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 239-like	LOC100755833	100755833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNT1-inducible-signaling pathway protein 1-like	LOC100755834	100755834	0.00	0.03	0.00	0.00	0.00	0.03	0.00	2.75	0.00	0.00	0.00	0.93
nucleoporin SEH1 pseudogene	LOC100755835	100755835	0.00	0.00	0.00	0.13	0.04	0.03	0.00	0.00	0.00	2.32	1.03	0.93
chromosome unknown open reading frame, human C10orf67	LOC100755839	100755839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

neuroligin-1-like	LOC100755841	100755841	1.40	1.44	1.38	1.63	1.85	1.41	66.08	70.46	68.31	82.28	84.87	66.36
toll-like receptor 12	LOC100755844	100755844	0.02	0.01	0.02	0.00	0.00	0.00	2.28	0.92	1.24	2.32	0.00	0.00
fer-1-like protein 4	LOC100755848	100755848	0.17	0.15	0.08	0.09	0.04	0.07	40.26	32.03	18.63	19.70	10.35	14.02
cytochrome P450 1A2	LOC100755851	100755851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf43	LOC100755857	100755857	0.11	0.23	0.18	0.21	0.13	0.03	29.62	37.52	27.33	23.18	21.73	18.69
chromosome unknown open reading frame, human C10orf107	LOC100755859	100755859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dipeptidase 2-like	LOC100755863	100755863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell cycle control protein 50C-like	LOC100755866	100755866	0.03	0.03	0.04	0.04	0.03	0.00	0.76	0.92	1.24	1.16	2.07	0.00
olfactory receptor 1052-like	LOC100755868	100755868	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26-like	LOC100755871	100755871	0.31	0.37	0.00	0.00	0.22	0.40	1.52	1.83	0.00	0.00	1.03	1.87
GRB2-associated-binding protein 2 pseudogene	LOC100755873	100755873	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C18orf8	LOC100755875	100755875	11.01	10.78	11.46	12.36	13.35	13.99	765.62	758.56	765.13	850.65	926.31	952.43
acidic leucine-rich nuclear phosphoprotein 32 family member E-like	LOC100755891	100755891	1.05	0.16	0.14	0.35	0.18	0.72	9.11	0.92	2.48	4.64	2.07	6.54
elongation factor 1-delta	LOC100755894	100755894	335.33	347.47	343.22	327.69	280.28	308.55	10875.84	11271.38	11079.41	10408.26	9005.42	9848.61
protein cornichon homolog 1-like	LOC100755897	100755897	54.15	57.30	58.93	48.53	43.61	50.80	544.59	590.20	589.99	446.18	397.43	468.27
spindlin-2B-like	LOC100755900	100755900	0.00	0.07	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00	1.03	0.00
60S ribosomal protein L15 pseudogene	LOC100755902	100755902	0.00	0.00	0.00	0.00	0.00	0.00	3.80	9.15	12.42	4.64	9.31	2.80
olfactory receptor 4F15	LOC100755906	100755906	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	2.07	0.93

olfactory receptor 51F1-like	LOC100755916	100755916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100755921	LOC100755921	100755921	1.40	1.41	1.35	0.63	0.30	0.30	41.02	36.60	36.02	19.70	12.42	14.95
olfactory receptor 52L1	LOC100755924	100755924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b5 domain-containing protein 1	LOC100755925	100755925	5.07	5.69	6.29	6.43	8.91	7.91	255.21	267.19	295.62	322.18	420.20	390.69
Kv channel-interacting protein 4	LOC100755926	100755926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
glutathione S-transferase C-terminal domain-containing protein	LOC100755927	100755927	15.24	17.18	17.65	19.98	21.91	21.15	586.36	649.67	679.42	746.34	824.88	799.14
actin-related protein 2 pseudogene	LOC100755931	100755931	3.45	4.79	3.76	3.89	4.29	3.46	3.80	5.49	4.97	3.48	9.31	3.74
single-stranded DNA-binding protein, mitochondrial-like	LOC100755932	100755932	0.06	0.27	0.10	0.03	0.24	0.13	3.80	3.66	2.48	1.16	4.14	0.93
regucalcin-like	LOC100755933	100755933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100755937	100755937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit J-like	LOC100755940	100755940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
olfactory receptor 14A2-like	LOC100755942	100755942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100755945	100755945	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.87
60S ribosomal protein L21	LOC100755948	100755948	14.25	14.06	8.08	6.37	9.29	9.39	92.66	71.37	39.75	26.66	43.47	54.21
UBA-like domain-containing protein 1 pseudogene	LOC100755949	100755949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31	LOC100755951	100755951	22.31	20.75	16.74	12.94	16.34	10.36	111.65	93.33	81.98	53.31	81.76	48.60
prefoldin subunit 3 pseudogene	LOC100755959	100755959	0.36	1.00	0.14	0.39	0.46	0.28	4.56	10.98	1.24	4.64	8.28	6.54
autophagy protein 5 pseudogene	LOC100755960	100755960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BRCA1-associated RING domain protein 1 pseudogene	LOC100755970	100755970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 124-like	LOC100755972	100755972	0.65	0.69	1.55	0.83	1.02	0.86	51.65	57.65	40.99	69.54	83.83	71.03
cell division cycle 5-like protein pseudogene	LOC100755975	100755975	0.06	0.03	0.00	0.02	0.06	0.03	3.04	1.83	0.00	1.16	3.10	1.87
olfactory receptor 1009	LOC100755977	100755977	0.02	0.03	0.00	0.03	0.03	0.00	1.52	0.92	0.00	1.16	2.07	0.00
heat shock protein HSP 90-alpha pseudogene	LOC100755978	100755978	11.24	11.16	9.68	8.93	9.87	7.45	259.76	231.50	223.58	216.72	209.07	165.44
60S ribosomal protein L23-like	LOC100755984	100755984	2.32	3.27	1.11	1.22	1.17	0.12	18.23	25.62	8.69	9.27	8.28	0.93
actin-related protein 2/3 complex subunit 1A pseudogene	LOC100755986	100755986	0.22	0.51	0.24	0.04	0.27	0.40	5.32	13.73	6.21	1.16	7.24	11.22
vomeronasal type-1 receptor 4-like	LOC100755993	100755993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100755997	100755997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B3-like	LOC100756002	100756002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2D3	LOC100756004	100756004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100756005	100756005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen alpha-4(IV) chain	LOC100756006	100756006	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
26S protease regulatory subunit 8 pseudogene	LOC100756012	100756012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUT family member Gm806-like	LOC100756013	100756013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100756014	100756014	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
keratin-associated protein 2-1	LOC100756015	100756015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c, somatic pseudogene	LOC100756016	100756016	0.37	0.11	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00

olfactory receptor 2D3-like	LOC100756017	100756017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 92-like	LOC100756018	100756018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-kinase anchor protein 9-like	LOC100756022	100756022	4.17	3.74	4.16	5.14	4.52	4.81	165.58	146.41	152.78	195.86	183.19	183.20
Testis-specific H1 histone	LOC100756024	100756024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor subfamily B member 1F	LOC100756028	100756028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100756032	100756032	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rab GDP dissociation inhibitor beta pseudogene	LOC100756033	100756033	2.37	2.61	2.23	1.59	1.52	1.39	47.85	58.56	45.96	27.81	27.94	24.30
aphrodisin-like	LOC100756037	100756037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STE20-related kinase adapter protein alpha	LOC100756042	100756042	7.31	7.21	6.60	5.69	4.74	4.83	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 2	LOC100756043	100756043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mast cell protease 1-like	LOC100756053	100756053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100756057	100756057	1.65	3.23	3.11	1.57	2.24	1.41	12.15	43.01	37.26	18.54	23.80	13.09
chromosome unknown open reading frame, human C12orf43	LOC100756058	100756058	29.30	28.95	30.19	24.01	19.54	20.29	808.91	787.84	803.63	599.16	430.55	436.49
chromosome unknown open reading frame, human C11orf58	LOC100756062	100756062	124.89	123.90	126.65	121.41	122.23	129.53	5218.03	5201.97	5336.01	5065.64	5059.01	5355.66
olfactory receptor 4C45-like	LOC100756064	100756064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 2 pseudogene	LOC100756067	100756067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selenoprotein K pseudogene	LOC100756068	100756068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28S ribosomal protein L42, mitochondrial-like	LOC100756070	100756070	0.75	1.41	0.62	0.13	0.64	0.26	3.80	11.90	4.97	1.16	5.17	3.74

olfactory receptor 18-like	LOC100756074	100756074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B3	LOC100756075	100756075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tRNA-splicing endonuclease subunit Sen15 pseudogene	LOC100756077	100756077	26.43	22.11	14.33	2.80	8.25	0.00	36.46	27.45	21.12	5.79	9.31	0.93
ATP synthase subunit g, mitochondrial pseudogene	LOC100756081	100756081	1.34	1.10	1.33	0.65	1.80	0.98	3.04	0.92	3.73	0.00	2.07	0.00
60S ribosomal protein L9 pseudogene	LOC100756082	100756082	0.07	0.24	0.22	0.21	0.09	0.00	0.76	2.75	2.48	2.32	1.03	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100756085	100756085	0.00	0.00	0.16	0.15	0.13	0.00	0.00	0.00	1.24	1.16	1.03	0.00
olfactory receptor 6C74-like	LOC100756098	100756098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinase 4 pseudogene	LOC100756101	100756101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100756105	100756105	15.87	14.74	17.00	17.75	11.51	13.40	557.50	508.76	583.78	593.37	410.89	476.68
phosphoglycerate mutase 1 pseudogene	LOC100756106	100756106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase isozyme L3-like	LOC100756112	100756112	0.05	0.00	0.00	0.00	0.08	0.00	0.76	0.00	0.00	0.00	1.03	0.00
NACHT, LRR and PYD domains-containing protein 1-like	LOC100756113	100756113	0.11	0.13	0.04	0.07	0.31	0.23	12.91	18.30	6.21	9.27	35.19	31.78
protein FAM111A-like	LOC100756114	100756114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
melanoma-associated antigen 10-like	LOC100756116	100756116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7A-related protein, mitochondrial	LOC100756118	100756118	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
39S ribosomal protein L42, mitochondrial	LOC100756124	100756124	0.48	0.23	0.44	0.08	0.26	0.07	6.08	3.66	4.97	2.32	5.17	0.00
chromatin target of PRMT1 protein pseudogene	LOC100756127	100756127	0.09	0.14	0.00	0.00	0.00	0.15	0.76	0.92	0.00	0.00	0.00	0.93
polyhomeotic-like protein 2	LOC100756136	100756136	29.58	29.12	32.08	28.58	22.25	23.24	1999.87	1954.51	2166.20	1913.38	1482.10	1566.51

putative ATP-dependent RNA helicase TDRD12	LOC100756144	100756144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A1/2A42-like	LOC100756155	100756155	0.04	0.06	0.10	0.07	1.00	0.86	3.80	5.49	8.69	5.79	95.22	83.19
SERTA domain-containing protein 2-like	LOC100756164	100756164	0.14	0.10	0.18	0.00	0.04	0.10	3.80	6.41	7.45	0.00	1.03	4.67
mimitin, mitochondrial pseudogene	LOC100756166	100756166	7.37	6.60	6.80	5.66	7.77	7.41	6.84	9.15	12.42	3.48	10.35	2.80
probasin-like	LOC100756179	100756179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26-like	LOC100756182	100756182	0.46	1.12	0.26	0.00	0.87	0.00	2.28	5.49	1.24	0.00	4.14	0.00
40S ribosomal protein S3 pseudogene	LOC100756184	100756184	0.00	0.00	0.08	0.00	0.00	0.06	0.00	0.00	2.48	1.16	0.00	0.93
TAR DNA-binding protein 43 pseudogene	LOC100756187	100756187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
protein S-Myc	LOC100756188	100756188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C18orf54	LOC100756190	100756190	5.10	5.13	6.23	6.39	8.00	7.00	328.12	330.33	378.84	397.51	505.07	428.08
60S ribosomal protein L32 pseudogene	LOC100756191	100756191	1.81	1.75	1.51	1.74	1.14	1.27	15.19	15.56	12.42	13.91	9.31	9.35
olfactory receptor 4F15-like	LOC100756192	100756192	0.00	0.04	0.11	0.00	0.05	0.04	0.00	0.92	3.73	0.00	2.07	0.93
aldo-keto reductase family 1 member C13-like	LOC100756193	100756193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein BEX4-like	LOC100756194	100756194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a	LOC100756207	100756207	5.37	4.76	3.62	2.02	3.67	2.76	39.50	37.52	28.57	13.91	26.91	19.63
mitochondrial import receptor subunit TOM20 homolog	LOC100756210	100756210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 56A3	LOC100756211	100756211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein CutA homolog	LOC100756214	100756214	0.05	0.00	0.00	0.00	0.03	0.03	3.04	0.00	1.24	2.32	2.07	1.87

speedy protein E4-like	LOC100756216	100756216	0.03	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	1.03	1.87
cofilin-1 pseudogene	LOC100756219	100756219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DCN1-like protein 1 pseudogene	LOC100756220	100756220	4.68	4.17	5.18	5.39	5.37	4.62	78.99	84.18	104.34	105.46	97.29	86.92
transcription elongation factor B polypeptide 2 pseudogene	LOC100756224	100756224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9	LOC100756225	100756225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361	LOC100756229	100756229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 60-like	LOC100756234	100756234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial pseudogene	LOC100756236	100756236	0.02	0.20	0.10	0.09	0.15	0.06	0.00	4.58	2.48	2.32	3.10	0.93
high affinity immunoglobulin epsilon receptor subunit alpha-like	LOC100756237	100756237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U6 snRNA-associated Sm-like protein LSm3 pseudogene	LOC100756239	100756239	0.55	0.33	0.61	0.30	0.39	0.35	4.56	2.75	4.97	2.32	3.10	2.80
calcium-binding and coiled-coil domain-containing protein 2-like	LOC100756241	100756241	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
chloride intracellular channel protein 5	LOC100756242	100756242	0.04	0.05	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
chromosome unknown open reading frame, human C14orf1	LOC100756249	100756249	17.72	16.76	19.55	18.51	18.20	20.86	600.04	560.92	654.58	603.80	601.33	688.85
high mobility group protein HMG-I/HMG-Y-like	LOC100756250	100756250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bile acid-CoA:amino acid N-acyltransferase	LOC100756252	100756252	0.27	0.35	0.34	0.60	0.48	0.60	25.82	34.77	39.75	57.95	45.54	71.97
zinc finger protein 20-like	LOC100756255	100756255	0.00	0.00	0.00	0.00	0.00	0.01	1.52	0.00	0.00	0.00	1.03	0.93
olfactory receptor 1013-like	LOC100756262	100756262	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100756263	100756263	0.08	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00

40S ribosomal protein SA pseudogene	LOC100756269	100756269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100756271	100756271	0.40	0.41	0.33	0.43	0.32	0.20	3.80	4.58	3.73	4.64	6.21	9.35
zinc finger protein 431-like	LOC100756273	100756273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 383-like	LOC100756278	100756278	1.60	1.52	1.73	2.58	2.39	2.25	154.19	150.07	161.47	244.53	223.56	213.10
olfactory receptor 5B3-like	LOC100756288	100756288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-alpha 1-like	LOC100756289	100756289	677.74	723.21	739.84	722.72	776.15	665.71	8343.54	8751.38	8993.95	8541.24	9380.08	8124.15
olfactory receptor 2AG2-like	LOC100756290	100756290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 883-like	LOC100756291	100756291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rhomboid-related protein 4	LOC100756292	100756292	54.50	47.48	49.81	47.94	51.08	52.60	1137.03	1045.88	1063.23	1046.50	1052.58	1111.32
chromosome unknown open reading frame, human C16orf95	LOC100756293	100756293	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.24	1.16	0.00	0.93
UDP-glucuronosyltransferase 1-3-like	LOC100756297	100756297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B3-like	LOC100756298	100756298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative PRAME family member 25	LOC100756300	100756300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
keratin-associated protein 2-1-like	LOC100756301	100756301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 1 pseudogene	LOC100756302	100756302	0.72	0.43	0.20	0.39	0.68	0.16	18.23	18.30	13.66	4.64	14.49	14.95
transmembrane protein 92-like	LOC100756304	100756304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15 pseudogene	LOC100756308	100756308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor subfamily B member 1	LOC100756313	100756313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S acidic ribosomal protein P2 pseudogene	LOC100756316	100756316	4.24	4.50	6.43	5.93	6.48	7.36	132.16	129.93	196.25	195.86	209.07	228.99
speckle-type POZ protein pseudogene	LOC100756317	100756317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 6-like	LOC100756319	100756319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10-like	LOC100756320	100756320	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
hemojuvelin	LOC100756322	100756322	0.01	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
focadhesin	LOC100756324	100756324	20.12	19.58	15.09	15.26	16.24	17.72	1548.70	1527.19	1193.65	1258.59	1283.38	1292.65
UBX domain-containing protein 1	LOC100756326	100756326	387.08	391.67	458.76	466.99	379.82	415.99	1997.59	2095.43	2353.75	2265.69	2043.06	2137.59
resistin-like beta	LOC100756330	100756330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 171	LOC100756343	100756343	0.43	0.44	0.42	0.28	0.24	0.52	39.50	37.52	38.50	20.86	25.87	32.71
putative nmrA-like family domain-containing protein ENSP00000305954	LOC100756347	100756347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 4A47	LOC100756351	100756351	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase-like	LOC100756361	100756361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B2-like	LOC100756362	100756362	0.05	0.06	0.00	0.00	0.00	0.04	2.28	0.92	0.00	0.00	0.00	0.93
ankyrin repeat family A protein 2 pseudogene	LOC100756364	100756364	0.00	0.00	0.05	0.00	0.00	0.00	0.00	1.83	2.48	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein D-like pseudogene	LOC100756371	100756371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100756373	100756373	0.04	0.00	0.00	0.00	0.05	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C70	LOC100756387	100756387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28S ribosomal protein S21, mitochondrial pseudogene	LOC100756388	100756388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00

rho guanine nucleotide exchange factor 10-like protein	LOC100756389	100756389	8.52	8.17	11.21	9.11	5.59	6.82	573.45	555.43	741.53	609.59	369.49	436.49
Ig heavy chain V-III region VH26-like	LOC100756391	100756391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein Pegasus-like	LOC100756393	100756393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase assembly factor 7	LOC100756398	100756398	9.98	10.15	10.20	11.05	9.08	9.43	977.53	1002.88	1022.24	1106.77	901.47	930.00
U6 snRNA-associated Sm-like protein LSm5 pseudogene	LOC100756402	100756402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mothers against decapentaplegic homolog 1-like	LOC100756412	100756412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
condensin-2 complex subunit H2 pseudogene	LOC100756414	100756414	0.11	0.22	0.08	0.07	0.15	0.17	5.32	10.98	3.73	4.64	7.24	8.41
40S ribosomal protein S26-like	LOC100756416	100756416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced guanylate-binding protein 2-like	LOC100756417	100756417	0.01	0.01	0.00	0.00	0.00	0.03	0.00	0.00	1.24	0.00	0.00	0.93
LIM homeobox transcription factor 1-beta	LOC100756418	100756418	9.16	7.32	14.28	10.37	7.67	8.24	235.46	203.14	392.50	256.12	201.82	208.43
heat shock protein HSP 90-alpha pseudogene	LOC100756421	100756421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L3-like	LOC100756423	100756423	0.02	0.01	0.08	0.04	0.17	0.00	0.76	0.00	2.48	1.16	5.17	0.00
histone H2B type 1-A	LOC100756432	100756432	0.04	0.05	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyamine-modulated factor 1	LOC100756436	100756436	63.71	61.45	61.78	54.57	51.70	54.64	1684.66	1657.13	1642.04	1438.22	1397.23	1446.87
survival motor neuron protein	LOC100756440	100756440	86.06	87.01	86.91	83.48	85.01	86.84	2918.15	2988.50	2962.38	2817.33	2849.32	2898.41
olfactory receptor 141-like	LOC100756448	100756448	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin-2-like	LOC100756453	100756453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium-dependent phosphate transporter 1 pseudogene	LOC100756454	100756454	0.05	0.06	0.00	0.02	0.02	0.06	3.04	3.66	0.00	1.16	2.07	3.74

major facilitator superfamily domain-containing protein 9-like	LOC100756467	100756467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde dehydrogenase family 3 member B1-like	LOC100756470	100756470	0.04	0.02	0.00	0.08	0.05	0.02	3.04	1.83	0.00	4.64	2.07	1.87
T-complex protein 1 subunit beta pseudogene	LOC100756476	100756476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 4	LOC100756477	100756477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K3	LOC100756478	100756478	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC100756479	LOC100756479	100756479	9.24	8.73	8.73	8.37	10.47	10.72	312.93	290.98	286.92	270.03	360.18	357.04
40S ribosomal protein S6 pseudogene	LOC100756482	100756482	0.47	0.46	0.36	0.30	0.30	0.78	14.43	14.64	9.94	12.75	9.31	22.43
olfactory receptor 4F6-like	LOC100756484	100756484	0.00	0.00	0.17	0.11	0.12	0.15	0.76	0.00	3.73	3.48	3.10	4.67
aldo-keto reductase family 1 member C21-like	LOC100756485	100756485	0.00	0.00	0.00	0.00	0.00	0.08	1.52	0.00	1.24	1.16	0.00	1.87
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100756490	100756490	244.71	241.31	188.87	94.44	45.71	48.09	2698.64	2732.29	2092.92	929.45	465.74	462.66
zinc finger protein DZIP1 pseudogene	LOC100756492	100756492	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein CTLA-2-beta-like	LOC100756494	100756494	1.41	2.20	1.62	2.02	1.92	2.24	33.42	47.58	43.47	40.56	45.54	57.01
chromosome unknown open reading frame, human C17orf103	LOC100756496	100756496	9.01	9.12	9.72	10.36	9.77	10.21	802.07	815.29	875.67	925.98	868.35	911.30
olfactory receptor 52L1	LOC100756502	100756502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aryl hydrocarbon receptor repressor	LOC100756505	100756505	15.71	15.42	18.28	19.22	20.01	19.85	2079.62	2046.93	2446.91	2558.90	2639.22	2644.18
speedy protein E4-like	LOC100756506	100756506	0.03	0.00	0.00	0.00	0.00	0.00	2.28	0.00	2.48	0.00	1.03	0.93
bystin-like	LOC100756507	100756507	3.54	2.31	2.64	2.08	2.05	2.06	67.60	39.35	55.89	39.40	34.15	42.06
cryptic protein-like	LOC100756508	100756508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

dual 3',5'-cyclic-AMP and -GMP phosphodiesterase 11A	LOC100756511	100756511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase	LOC100756512	100756512	47.60	47.51	47.61	47.26	44.67	45.69	3529.58	3508.24	3638.07	3533.55	3362.67	3617.17
ubiquitin-60S ribosomal protein L40-like	LOC100756515	100756515	18.33	23.98	16.50	11.78	15.78	12.09	62.28	67.71	40.99	39.40	43.47	31.78
26S proteasome non-ATPase regulatory subunit 13-like	LOC100756516	100756516	9.40	7.54	7.85	8.44	9.29	7.52	262.80	214.12	224.82	239.90	261.85	214.04
zinc finger protein 709-like	LOC100756518	100756518	8.82	8.86	12.37	14.04	12.63	12.79	518.01	518.82	731.59	828.63	740.02	755.21
peptidyl-prolyl cis-trans isomerase A pseudogene	LOC100756519	100756519	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
keratin-associated protein 2-1	LOC100756520	100756520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10J1	LOC100756527	100756527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1 pseudogene	LOC100756532	100756532	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.93
probable ribosome biogenesis protein RLP24 pseudogene	LOC100756539	100756539	0.07	0.00	0.00	0.00	0.10	0.00	0.76	0.00	0.00	0.00	1.03	0.00
cytochrome c oxidase subunit 7A2, mitochondrial	LOC100756540	100756540	278.97	295.30	230.98	232.01	243.36	236.00	2685.73	2831.11	2141.36	2082.58	2215.91	2105.81
acyl-coenzyme A amino acid N-acyltransferase 2-like	LOC100756541	100756541	0.00	0.00	0.04	0.00	0.00	0.03	0.00	0.00	1.24	0.00	0.00	0.93
ribosome biogenesis regulatory protein homolog	LOC100756542	100756542	0.05	0.00	0.09	0.08	0.00	0.00	0.76	0.00	2.48	1.16	0.00	0.00
zinc finger protein 878-like	LOC100756545	100756545	1.53	1.50	2.01	2.27	2.31	2.00	109.37	110.72	150.29	163.41	164.56	143.94
glycine cleavage system H protein, mitochondrial-like	LOC100756550	100756550	1.97	2.19	1.23	1.90	1.93	1.35	18.99	13.73	4.97	11.59	10.35	9.35
olfactory receptor 1013-like	LOC100756552	100756552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1B chain-like	LOC100756553	100756553	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA-binding protein	LOC100756555	100756555	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C1orf68	LOC100756558	100756558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testis-specific serine/threonine-protein kinase 5-like	LOC100756562	100756562	0.00	0.04	0.00	0.00	0.00	0.00	2.28	7.32	2.48	8.11	2.07	6.54
trans-1,2-dihydrobenzene-1,2-diol dehydrogenase pseudogene	LOC100756563	100756563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11G2-like	LOC100756567	100756567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glucosamine 6-phosphate N-acetyltransferase pseudogene	LOC100756573	100756573	0.28	0.37	0.15	0.10	0.17	0.08	3.80	6.41	2.48	1.16	2.07	0.93
trafficking protein particle complex subunit 9-like	LOC100756575	100756575	7.58	7.27	8.71	5.86	5.92	6.56	201.28	185.75	233.51	152.98	173.88	171.98
olfactory receptor 5B3-like	LOC100756581	100756581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100756583	100756583	2.12	2.06	2.11	1.23	1.68	0.96	29.62	27.45	31.05	15.07	20.70	11.22
zinc finger protein 595-like	LOC100756584	100756584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-5-like	LOC100756590	100756590	0.02	0.04	0.00	0.03	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B4-like	LOC100756591	100756591	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selenoprotein W pseudogene	LOC100756592	100756592	4.65	2.40	2.67	5.20	1.84	4.85	75.95	52.16	38.50	61.42	25.87	57.01
ribosome biogenesis regulatory protein homolog	LOC100756594	100756594	0.00	0.03	0.00	0.00	0.00	0.00	1.52	1.83	1.24	0.00	1.03	0.00
keratin-associated protein 9-3	LOC100756595	100756595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced very large GTPase 1	LOC100756597	100756597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100756598	100756598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SAAL1-like	LOC100756600	100756600	2.83	2.80	3.24	3.21	4.43	3.80	229.38	236.08	247.18	260.76	301.18	302.83
oocyte-secreted protein 1-like	LOC100756603	100756603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93

alcohol dehydrogenase [NADP(+)] pseudogene	LOC100756608	100756608	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C17orf105 homolog	LOC100756610	100756610	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ligand-dependent corepressor	LOC100756611	100756611	8.11	7.80	6.58	6.63	7.57	7.49	1156.02	1149.28	956.41	983.92	1134.34	1116.00
ADAMTS-like protein 3	LOC100756612	100756612	0.03	0.03	0.01	0.04	0.08	0.01	2.28	3.66	1.24	3.48	5.17	0.93
olfactory receptor 10-like	LOC100756616	100756616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol dehydrogenase 1	LOC100756617	100756617	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L32-like	LOC100756619	100756619	5.47	4.56	4.51	3.10	4.70	3.85	107.10	120.78	173.89	197.02	183.19	171.04
interferon-induced very large GTPase 1	LOC100756621	100756621	0.02	0.01	0.01	0.01	0.00	0.00	3.80	2.75	1.24	2.32	0.00	0.00
zinc finger protein 431-like	LOC100756623	100756623	0.00	0.03	0.00	0.02	0.03	0.03	0.00	0.92	0.00	0.00	1.03	0.93
resistin-like beta	LOC100756627	100756627	0.12	0.00	0.19	0.00	0.16	0.00	1.52	0.92	2.48	0.00	1.03	0.93
60S ribosomal protein L17 pseudogene	LOC100756629	100756629	0.00	0.08	0.00	0.00	0.00	0.09	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L21 pseudogene	LOC100756634	100756634	4.64	4.27	4.29	3.20	4.09	2.45	21.27	20.13	32.29	23.18	26.91	12.15
chromosome unknown open reading frame, human C8orf4	LOC100756639	100756639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U6 snRNA-associated Sm-like protein LSm5 pseudogene	LOC100756645	100756645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A5-like	LOC100756650	100756650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat protein 39B-like	LOC100756657	100756657	0.16	0.12	0.07	0.11	0.10	0.12	9.11	8.24	3.73	5.79	5.17	7.48
Wiskott-Aldrich syndrome protein family member 1	LOC100756660	100756660	0.01	0.02	0.02	0.02	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
olfactory receptor 7E24	LOC100756661	100756661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

beta-hexosaminidase subunit beta-like	LOC100756663	100756663	7.48	7.82	10.23	11.28	13.06	11.92	265.08	280.00	399.95	433.44	527.84	477.62
proteasome subunit alpha type-7 pseudogene	LOC100756664	100756664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase W	LOC100756665	100756665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cocaine esterase-like	LOC100756666	100756666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial pseudogene	LOC100756669	100756669	0.61	0.83	0.80	0.48	0.31	0.58	28.10	38.43	36.02	20.86	14.49	26.17
alpha-actinin-3	LOC100756672	100756672	10.15	10.21	12.46	11.52	8.32	9.50	1104.37	1128.24	1368.78	1241.20	911.82	1032.81
putative vomeronasal receptor-like protein 4	LOC100756674	100756674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced transmembrane protein 2	LOC100756685	100756685	115.51	107.24	118.98	122.31	112.58	105.70	2467.74	2278.43	2584.78	2637.70	2398.06	2263.77
vacuolar protein sorting-associated protein 26A-like	LOC100756686	100756686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C76	LOC100756688	100756688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3 pseudogene	LOC100756689	100756689	0.85	0.95	0.91	0.38	0.91	0.48	22.03	21.05	23.60	16.22	20.70	15.89
Ig heavy chain V-II region SESS-like	LOC100756692	100756692	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 14A16-like	LOC100756694	100756694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b-c1 complex subunit 7-like	LOC100756699	100756699	0.24	0.30	0.82	0.00	0.00	0.47	4.56	2.75	4.97	0.00	0.00	3.74
60S ribosomal protein L15 pseudogene	LOC100756700	100756700	7.26	5.12	5.40	2.77	3.29	3.26	113.93	85.10	80.74	42.88	50.71	51.41
C-type lectin domain family 2 member H-like	LOC100756701	100756701	0.00	0.00	0.14	0.04	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
NACHT, LRR and PYD domains-containing protein 1-like	LOC100756703	100756703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selection and upkeep of intraepithelial T-cells protein 2-like	LOC100756707	100756707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

14-3-3 protein eta-like	LOC100756708	100756708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf116	LOC100756710	100756710	1.54	1.74	1.84	1.39	1.55	1.47	44.05	50.33	45.96	42.88	39.33	42.99
piwi-like protein 1	LOC100756712	100756712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial pseudogene	LOC100756715	100756715	0.12	0.09	0.13	0.20	0.20	0.16	2.28	2.75	3.73	5.79	5.17	3.74
ATPase family AAA domain-containing protein 2	LOC100756717	100756717	206.11	207.51	139.19	175.23	182.88	165.80	1974.04	1980.13	1326.55	1565.70	1744.99	1563.70
olfactory receptor 14A2-like	LOC100756718	100756718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
reactive oxygen species modulator 1	LOC100756722	100756722	3.70	1.66	2.82	0.66	2.09	1.95	6.08	3.66	7.45	0.00	3.10	1.87
sentrin-specific protease 2-like	LOC100756725	100756725	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	2.32	1.03	0.00
histone H2A type 4	LOC100756730	100756730	0.00	0.15	0.20	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
GTPase ERas-like	LOC100756735	100756735	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.03	0.00
prothymosin alpha-like	LOC100756745	100756745	0.83	0.65	0.66	0.68	0.33	0.31	19.75	14.64	14.91	16.22	21.73	10.28
olfactory receptor 8H3-like	LOC100756747	100756747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 26B1	LOC100756748	100756748	0.03	0.10	0.15	0.02	0.03	0.03	2.28	6.41	9.94	1.16	2.07	1.87
40S ribosomal protein S27-like	LOC100756750	100756750	22.07	22.21	13.49	11.66	19.93	15.59	47.85	45.75	21.12	19.70	38.29	34.58
vomeronasal type-2 receptor 116	LOC100756752	100756752	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C70-like	LOC100756757	100756757	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.92	0.00	0.00	2.07	0.00
protocadherin gamma-A5-like	LOC100756758	100756758	0.00	0.01	0.00	0.02	0.01	0.02	0.76	0.92	0.00	2.32	1.03	4.67
secretoglobin family 2A member 2-like	LOC100756762	100756762	0.17	0.31	0.00	0.40	0.12	0.21	3.04	3.66	1.24	4.64	3.10	5.61

ETS domain-containing transcription factor ERF	LOC100756763	100756763	5.42	5.11	5.93	4.19	1.87	1.44	49.37	45.75	58.38	32.45	14.49	14.02
ras-related protein Rap-1A-like	LOC100756765	100756765	2.33	1.39	0.99	0.55	1.14	1.13	42.53	27.45	18.63	13.91	17.59	21.50
ubiquitin-60S ribosomal protein L40 pseudogene	LOC100756766	100756766	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	1.03	0.00
odorant-binding protein-like	LOC100756767	100756767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
motile sperm domain-containing protein 1 pseudogene	LOC100756773	100756773	1.02	1.48	1.34	1.40	2.07	1.61	25.06	37.52	22.36	19.70	41.40	35.52
olfactory receptor 4F3/4F16/4F29-like	LOC100756775	100756775	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K2-like	LOC100756781	100756781	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a pseudogene	LOC100756782	100756782	0.11	0.23	0.05	0.05	0.20	0.10	0.00	0.92	0.00	0.00	1.03	0.00
protein CTLA-2-beta	LOC100756791	100756791	114.29	111.78	64.06	77.74	87.16	87.72	2024.93	1994.77	1181.22	1299.15	1524.53	1506.69
olfactory receptor 56A4-like	LOC100756799	100756799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Dr1 pseudogene	LOC100756801	100756801	0.42	0.25	0.23	0.11	0.20	0.09	4.56	1.83	2.48	0.00	2.07	0.93
inorganic pyrophosphatase 2, mitochondrial-like	LOC100756805	100756805	129.09	131.06	105.00	109.45	124.70	128.96	1926.19	2065.23	1649.49	1663.05	1905.41	1876.82
protein FAM187B	LOC100756806	100756806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100756808	100756808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100756810	100756810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf31	LOC100756811	100756811	6.05	6.36	7.29	8.24	9.85	9.15	343.31	355.03	412.37	450.82	566.14	513.13
DCN1-like protein 5 pseudogene	LOC100756812	100756812	0.00	0.10	0.13	0.13	0.00	0.00	0.00	1.83	3.73	2.32	0.00	0.00
zinc finger protein 112 pseudogene	LOC100756814	100756814	4.91	4.44	5.03	4.94	4.93	5.29	22.03	11.90	17.39	16.22	6.21	15.89

tripartite motif-containing protein 75-like	LOC100756820	100756820	0.06	0.08	0.02	0.05	0.06	0.04	3.80	5.49	2.48	3.48	6.21	2.80
regulator of chromosome condensation-like	LOC100756821	100756821	0.03	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 119	LOC100756822	100756822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high affinity immunoglobulin epsilon receptor subunit alpha-like	LOC100756823	100756823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phenylalanine--tRNA ligase alpha subunit pseudogene	LOC100756824	100756824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein ZFP69-like	LOC100756827	100756827	3.81	3.45	4.14	4.11	4.53	4.15	185.33	173.86	207.43	215.56	226.66	218.71
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100756828	100756828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit G pseudogene	LOC100756832	100756832	0.04	0.17	0.00	0.05	0.17	0.09	0.76	3.66	0.00	1.16	3.10	1.87
60S ribosomal protein L36a-like	LOC100756833	100756833	0.96	0.31	0.76	0.23	0.21	0.09	0.00	0.00	0.00	0.00	0.00	0.00
lipid phosphate phosphatase-related protein type 1	LOC100756834	100756834	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 14-like	LOC100756838	100756838	2.23	2.08	1.53	2.16	2.69	2.68	119.25	110.72	86.95	118.21	150.07	147.68
ubiquitin-like domain-containing CTD phosphatase 1 pseudogene	LOC100756841	100756841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100756842	100756842	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00
selenoprotein K pseudogene	LOC100756843	100756843	0.06	0.12	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.93
60S ribosomal protein L6 pseudogene	LOC100756844	100756844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1013	LOC100756845	100756845	0.59	0.77	0.40	0.39	0.32	0.29	46.33	54.90	28.57	30.13	23.80	22.43
60S ribosomal protein L26 pseudogene	LOC100756848	100756848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase ERas-like	LOC100756851	100756851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sphingomyelin phosphodiesterase 3	LOC100756855	100756855	0.02	0.00	0.00	0.00	0.03	0.00	3.04	0.92	1.24	0.00	2.07	1.87
mitochondrial inner membrane protease ATP23 homolog	LOC100756856	100756856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 6-like	LOC100756857	100756857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11H6	LOC100756859	100756859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kinase C zeta type	LOC100756860	100756860	1.33	1.13	0.59	0.46	0.46	0.21	101.78	106.14	69.56	49.83	55.89	34.58
60S ribosomal protein L22 pseudogene	LOC100756861	100756861	5.57	9.50	8.74	7.51	9.61	4.53	329.64	299.22	276.99	319.86	333.27	344.89
zinc finger protein 2 homolog	LOC100756863	100756863	1.56	1.41	1.77	1.88	2.00	1.72	212.67	196.73	245.93	265.39	277.38	245.82
non-histone chromosomal protein HMG-17 pseudogene	LOC100756866	100756866	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B2-like	LOC100756873	100756873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenylosuccinate lyase-like	LOC100756874	100756874	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
zinc finger protein 678-like	LOC100756876	100756876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-9-like	LOC100756880	100756880	0.12	0.21	0.03	0.05	0.06	0.00	7.60	7.32	0.00	3.48	3.10	1.87
phosphatidylinositol N-acetylglucosaminyltransferase subunit Y-like	LOC100756881	100756881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C21orf59	LOC100756882	100756882	28.92	30.84	35.14	35.84	26.71	27.57	835.49	906.80	1022.24	1008.26	781.41	781.38
zinc finger FYVE domain-containing protein 1 pseudogene	LOC100756885	100756885	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93
keratin-associated protein 2-1	LOC100756886	100756886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf70	LOC100756887	100756887	0.13	0.16	0.16	0.20	0.09	0.29	4.56	6.41	4.97	4.64	2.07	6.54
60S ribosomal protein L5 pseudogene	LOC100756888	100756888	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00

vomeronasal type-1 receptor 4-like	LOC100756889	100756889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf2	LOC100756896	100756896	39.27	39.06	48.56	44.86	38.26	39.74	3303.24	3300.53	4183.35	3922.94	3337.83	3493.80
small ubiquitin-related modifier 2 pseudogene	LOC100756901	100756901	3.70	5.53	3.65	2.40	3.64	2.46	30.38	46.67	32.29	20.86	24.84	17.76
CD209 antigen-like protein C	LOC100756903	100756903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14A2-like	LOC100756904	100756904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
up-regulated during skeletal muscle growth protein 5	LOC100756907	100756907	2.72	1.86	1.77	0.61	2.00	1.43	26.58	34.77	24.84	25.50	31.05	31.78
guanylate-binding protein 4-like	LOC100756912	100756912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf38	LOC100756916	100756916	0.00	0.00	0.00	0.00	0.00	0.07	1.52	0.92	1.24	1.16	0.00	2.80
resistin-like beta	LOC100756917	100756917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UBA-like domain-containing protein 2	LOC100756918	100756918	3.94	3.64	2.64	2.81	2.23	0.64	37.22	40.26	23.60	24.34	20.70	5.61
chromosome unknown open reading frame, human C15orf61	LOC100756919	100756919	1.83	1.76	2.74	1.65	1.58	1.98	77.47	74.12	114.27	71.85	69.34	78.51
putative MAGE domain-containing protein MAGEA13P	LOC100756923	100756923	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
leucine-rich repeat-containing protein homolog	LOC100756927	100756927	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	2.32	1.03	0.00
disintegrin and metalloproteinase domain-containing protein 18	LOC100756928	100756928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metallothionein-4	LOC100756932	100756932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S6-like	LOC100756935	100756935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	7.45	0.00	3.10	1.87
olfactory receptor 4A5-like	LOC100756937	100756937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100756939	100756939	0.08	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.93

40S ribosomal protein SA pseudogene	LOC100756940	100756940	0.18	0.62	0.06	0.28	0.20	0.09	4.56	12.81	2.48	5.79	4.14	1.87
Uncharacterized protein C3orf18	LOC100756942	100756942	11.14	11.67	11.60	7.17	5.66	6.52	429.90	427.32	426.04	250.33	210.10	231.80
neuferricin	LOC100756943	100756943	1.12	1.08	1.06	1.13	1.51	1.26	56.21	46.67	50.93	52.15	66.24	56.08
60S ribosomal protein L5	LOC100756946	100756946	232.05	224.65	227.58	226.66	222.06	215.97	2637.12	2509.02	2495.35	2315.52	2351.49	2215.17
H-2 class I histocompatibility antigen, alpha chain-like	LOC100756947	100756947	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4E1	LOC100756949	100756949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-hexosaminidase subunit beta-like	LOC100756951	100756951	28.35	28.17	36.56	37.17	43.55	43.37	1446.92	1443.01	1868.10	1854.27	2236.61	2222.64
zinc finger protein 11	LOC100756955	100756955	1.44	1.38	1.95	2.12	2.16	1.92	126.84	124.44	173.89	188.90	188.37	172.91
malate dehydrogenase, cytoplasmic pseudogene	LOC100756956	100756956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
double C2-like domain-containing protein gamma	LOC100756957	100756957	0.09	0.08	0.07	0.00	0.03	0.08	3.80	4.58	6.21	4.64	3.10	4.67
vomeronasal type-1 receptor 90-like	LOC100756960	100756960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100756961	100756961	0.44	0.20	0.12	0.05	0.09	0.14	9.11	7.32	2.48	5.79	5.17	8.41
chromosome unknown open reading frame, human C14orf80	LOC100756967	100756967	5.76	5.10	7.17	5.28	4.29	4.74	344.83	316.60	416.10	332.61	274.27	307.51
uncharacterized LOC100756969	LOC100756969	100756969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36-like	LOC100756971	100756971	0.87	1.49	1.22	0.60	0.51	0.36	117.73	129.02	78.25	23.18	16.56	11.22
ran guanine nucleotide release factor pseudogene	LOC100756972	100756972	0.10	0.30	0.48	0.31	0.27	0.08	2.28	6.41	3.73	3.48	2.07	3.74
ubiquitin-like	LOC100756974	100756974	0.31	0.47	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	1.03	0.00
60S ribosomal protein L10-like	LOC100756977	100756977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

nucleophosmin pseudogene	LOC100756978	100756978	33.51	31.91	30.43	22.71	26.35	25.57	909.17	879.35	845.86	620.02	719.32	685.11
methyl-CpG-binding domain protein 5-like	LOC100756979	100756979	0.02	0.01	0.00	0.02	0.02	0.03	0.00	0.92	0.00	0.00	1.03	0.93
60S ribosomal protein L6 pseudogene	LOC100756982	100756982	0.74	0.10	0.00	0.00	0.23	0.10	6.84	0.92	0.00	0.00	2.07	0.93
filaggrin-2-like	LOC100756984	100756984	31.77	31.92	23.01	26.10	27.65	26.16	2789.03	2843.92	2022.12	2343.34	2449.81	2310.50
poly(rC)-binding protein 2 pseudogene	LOC100756985	100756985	0.53	0.70	0.32	0.22	0.26	0.19	15.95	14.64	4.97	5.79	5.17	1.87
NACHT, LRR and PYD domains-containing protein 1-like	LOC100756987	100756987	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.92	1.24	0.00	1.03	0.00
selection and upkeep of intraepithelial T-cells protein 1-like	LOC100756990	100756990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 490	LOC100756996	100756996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC100757001	100757001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel subfamily D member 2 pseudogene	LOC100757003	100757003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 477	LOC100757005	100757005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-1-like	LOC100757010	100757010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C18-like	LOC100757012	100757012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human C12orf56	LOC100757013	100757013	0.02	0.02	0.00	0.00	0.02	0.00	0.76	0.92	0.00	0.00	1.03	0.00
protein transport protein Sec61 subunit gamma-like	LOC100757015	100757015	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.93
neutrophil antibiotic peptide NP-1-like	LOC100757016	100757016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 4 isoform 2, mitochondrial	LOC100757022	100757022	0.08	0.00	0.00	0.00	0.00	0.10	0.76	0.00	0.00	0.00	0.00	1.87
probable G-protein coupled receptor 160	LOC100757034	100757034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L5	LOC100757036	100757036	606.97	596.45	603.28	665.13	616.21	619.90	7890.09	7802.49	7848.75	8971.20	7833.81	8118.54
olfactory receptor 8H1	LOC100757037	100757037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transforming protein RhoA	LOC100757042	100757042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100757044	LOC100757044	100757044	112.57	117.32	114.70	112.25	144.60	133.24	781.57	904.97	835.92	786.91	986.34	870.18
protocadherin gamma-A4	LOC100757045	100757045	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
nogo-B receptor pseudogene	LOC100757052	100757052	0.20	0.20	0.22	0.05	0.09	0.04	4.56	4.58	4.97	1.16	2.07	0.93
lethal(3)malignant brain tumor-like protein 3	LOC100757058	100757058	4.71	4.87	3.65	3.84	3.78	3.62	448.13	463.01	380.08	358.11	362.25	338.35
ADP-ribosylation factor-like protein 1	LOC100757060	100757060	26.10	28.34	29.79	29.05	32.34	28.81	428.38	451.11	558.94	610.75	625.13	590.71
arylacetamide deacetylase-like 4	LOC100757061	100757061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F6	LOC100757062	100757062	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-lactate dehydrogenase A chain pseudogene	LOC100757063	100757063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group nucleosome-binding domain-containing protein 5 pseudogene	LOC100757064	100757064	0.84	1.09	0.96	0.71	0.63	0.32	10.63	13.73	11.18	8.11	8.28	3.74
ankyrin repeat domain-containing protein 7-like	LOC100757068	100757068	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	1.24	0.00	4.14	0.93
chromosome unknown open reading frame, human C10orf128	LOC100757072	100757072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein CTLA-2-beta	LOC100757077	100757077	29.38	26.67	13.07	15.22	18.42	20.90	396.48	387.06	176.38	197.02	243.22	283.20
multifunctional protein ADE2 pseudogene	LOC100757079	100757079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
PRAME family member 12	LOC100757084	100757084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 56A4-like	LOC100757086	100757086	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

guanylate-binding protein 4-like	LOC100757089	100757089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 2-like	LOC100757091	100757091	5.57	6.13	6.00	5.93	7.17	6.90	606.87	652.42	628.50	635.09	744.16	686.98
hepatitis A virus cellular receptor 1 homolog	LOC100757092	100757092	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3 pseudogene	LOC100757094	100757094	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 478	LOC100757095	100757095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100757097	100757097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c, somatic	LOC100757098	100757098	233.62	232.31	248.86	245.08	260.03	264.65	5248.42	5254.12	5645.28	5445.76	5689.32	5887.48
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100757099	100757099	0.85	1.12	0.74	0.96	0.96	0.20	6.08	8.24	6.21	8.11	6.21	2.80
cytochrome c oxidase subunit 6A2, mitochondrial	LOC100757101	100757101	0.18	0.32	0.00	0.00	0.00	0.00	2.28	4.58	1.24	1.16	0.00	0.00
chromosome unknown open reading frame, human C19orf60	LOC100757102	100757102	17.61	16.54	17.54	10.91	7.64	7.85	328.88	325.75	317.97	198.18	157.32	147.68
regulator of chromosome condensation	LOC100757107	100757107	0.13	0.08	0.23	0.04	0.06	0.13	3.80	2.75	7.45	1.16	3.10	2.80
ATPase inhibitor, mitochondrial pseudogene	LOC100757109	100757109	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.93
protein tyrosine phosphatase type IVA 2 pseudogene	LOC100757114	100757114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin light polypeptide 6-like	LOC100757119	100757119	0.10	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC100757123	100757123	0.13	0.00	0.00	0.00	0.00	0.17	0.76	0.00	0.00	0.00	0.00	3.74
60S ribosomal protein L37a	LOC100757126	100757126	0.00	0.31	0.00	0.44	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100757127	100757127	1.15	1.68	1.16	0.88	0.73	0.52	31.14	42.09	29.81	24.34	17.59	14.95
sperm motility kinase X-like	LOC100757128	100757128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ATP synthase F(0) complex subunit B1, mitochondrial pseudogene	LOC100757129	100757129	0.08	0.18	0.00	0.18	0.00	0.09	1.52	5.49	0.00	3.48	0.00	1.87
olfactory receptor 5AK2-like	LOC100757131	100757131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1	LOC100757132	100757132	20.79	21.22	24.07	25.45	25.16	23.71	1436.29	1475.95	1659.43	1740.70	1724.29	1637.54
late cornified envelope protein 3D-like	LOC100757137	100757137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-60S ribosomal protein L40 pseudogene	LOC100757139	100757139	0.77	0.72	0.80	0.00	0.34	0.62	4.56	3.66	4.97	0.00	2.07	3.74
S-adenosylmethionine decarboxylase proenzyme-like	LOC100757144	100757144	3.44	3.21	3.65	3.43	3.54	3.42	82.03	86.01	126.69	111.26	113.85	134.59
uncharacterized LOC100757145	LOC100757145	100757145	3.10	2.85	2.28	2.25	2.09	1.65	88.11	81.44	68.31	64.90	61.06	55.15
40S ribosomal protein S2 pseudogene	LOC100757146	100757146	119.87	126.08	120.26	93.05	107.34	93.79	408.63	443.79	401.19	290.89	367.42	303.77
chromosome unknown open reading frame, human C1orf86	LOC100757150	100757150	24.82	23.06	21.97	21.50	19.30	22.34	993.48	929.67	893.06	857.60	775.20	886.07
suppressor of cytokine signaling 5-like	LOC100757153	100757153	0.07	0.00	0.24	0.17	0.08	0.12	3.04	0.00	9.94	8.11	4.14	6.54
tyrosine-protein kinase RYK-like	LOC100757154	100757154	1.47	1.08	0.83	0.94	1.01	0.60	44.81	27.45	22.36	22.02	21.73	10.28
40S ribosomal protein S9 pseudogene	LOC100757156	100757156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apoptosis-associated speck-like protein containing a CARD	LOC100757158	100757158	26.79	27.26	34.92	26.15	24.61	25.18	471.67	489.54	604.90	457.77	430.55	443.03
oocyte-secreted protein 1 pseudogene	LOC100757159	100757159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	3.48	0.00	0.00
ephrin type-A receptor 6-like	LOC100757161	100757161	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B3-like	LOC100757164	100757164	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
eukaryotic translation initiation factor 4 gamma 1 pseudogene	LOC100757166	100757166	2.10	1.74	1.62	1.12	1.39	1.28	96.46	89.67	81.98	50.99	68.31	57.95
zinc finger protein 420-like	LOC100757167	100757167	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NUT family member Gm806-like	LOC100757170	100757170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B4-like	LOC100757173	100757173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 3-1	LOC100757178	100757178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100757181	LOC100757181	100757181	0.12	0.19	0.00	0.09	0.00	0.22	4.56	8.24	2.48	1.16	6.21	11.22
zinc finger protein 883-like	LOC100757182	100757182	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.87
serine protease inhibitor Kazal-type 12-like	LOC100757183	100757183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100757189	100757189	2.66	2.91	1.62	1.16	2.26	0.79	22.03	25.62	12.42	9.27	17.59	7.48
CD209 antigen-like protein E	LOC100757193	100757193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14A2-like	LOC100757194	100757194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100757197	100757197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H4	LOC100757199	100757199	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100757201	100757201	0.03	0.09	0.00	0.09	0.08	0.17	0.00	0.92	0.00	2.32	2.07	3.74
G/T mismatch-specific thymine DNA glycosylase-like	LOC100757203	100757203	0.03	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5	LOC100757206	100757206	96.07	84.61	79.83	67.64	44.61	50.30	561.30	521.57	504.29	562.08	487.48	530.89
transforming protein RhoA pseudogene	LOC100757217	100757217	2.26	1.44	2.52	1.33	1.38	2.43	13.67	9.15	19.87	11.59	6.21	19.63
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100757232	100757232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class I histocompatibility antigen, A-25 alpha chain-like	LOC100757234	100757234	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
S-methyl-5'-thioadenosine phosphorylase pseudogene	LOC100757236	100757236	0.50	0.28	0.19	0.18	0.11	0.05	9.87	5.49	3.73	3.48	2.07	0.93

olfactory receptor 10G2	LOC100757237	100757237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microtubule-associated proteins 1A/1B light chain 3B pseudogene	LOC100757238	100757238	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.93
cytochrome P450 2C29	LOC100757240	100757240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin-binding protein 1b-like	LOC100757243	100757243	8.60	8.45	7.97	8.61	8.54	8.53	596.24	588.37	558.94	610.75	609.61	586.04
vomeronasal type-1 receptor 90-like	LOC100757248	100757248	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cuticular Ha3-I	LOC100757249	100757249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100757256	LOC100757256	100757256	0.07	0.24	0.11	0.15	0.18	0.24	3.04	6.41	3.73	4.64	4.14	5.61
uncharacterized LOC100757257	LOC100757257	100757257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 4 member K-like	LOC100757258	100757258	0.00	0.03	0.00	0.00	0.00	0.02	0.76	0.92	1.24	0.00	0.00	2.80
40S ribosomal protein S29	LOC100757259	100757259	1.20	1.05	0.91	0.76	1.05	1.78	1.52	3.66	1.24	0.00	2.07	3.74
aldose reductase-related protein 1	LOC100757262	100757262	0.59	0.71	0.36	0.59	0.61	0.42	24.31	32.03	14.91	24.34	24.84	17.76
zinc finger protein 431-like	LOC100757265	100757265	1.91	1.88	1.92	2.31	2.84	2.19	216.47	208.63	211.15	253.80	315.67	245.82
cytochrome c, somatic pseudogene	LOC100757274	100757274	1.37	0.17	0.46	0.23	0.19	0.36	8.35	0.92	3.73	1.16	1.03	3.74
killer cell lectin-like receptor subfamily B member 1F	LOC100757275	100757275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L33, mitochondrial pseudogene	LOC100757276	100757276	1.26	0.76	0.00	0.00	0.95	0.94	15.95	16.47	6.21	3.48	7.24	4.67
vesicle-associated membrane protein-associated protein A-like	LOC100757277	100757277	13.64	17.32	15.33	13.21	12.65	10.88	224.82	285.49	243.45	207.45	204.93	172.91
selection and upkeep of intraepithelial T-cells protein 10-like	LOC100757279	100757279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 494	LOC100757285	100757285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

nascent polypeptide-associated complex subunit alpha pseudogene	LOC100757286	100757286	1.33	1.31	0.80	0.48	0.55	0.53	16.71	16.47	9.94	5.79	6.21	6.54
non-histone chromosomal protein HMG-17	LOC100757288	100757288	5.45	5.51	5.02	5.22	6.98	3.94	61.52	54.90	67.07	49.83	52.78	55.15
nucleoporin SEH1 pseudogene	LOC100757289	100757289	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100757290	100757290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15 pseudogene	LOC100757292	100757292	0.40	0.08	0.00	0.11	0.00	0.25	4.56	0.00	0.00	1.16	0.00	3.74
ribonuclease K6-like	LOC100757294	100757294	0.10	0.00	0.16	0.00	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.00
gamma-crystallin E	LOC100757295	100757295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neutrophil antibiotic peptide NP-1	LOC100757305	100757305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromodomain Y-like protein	LOC100757319	100757319	0.40	0.36	0.38	0.12	0.22	0.20	14.43	10.07	16.15	5.79	9.31	11.22
la-related protein 4 pseudogene	LOC100757320	100757320	0.00	0.02	0.03	0.06	0.00	0.00	1.52	0.92	1.24	2.32	0.00	0.00
histone H2B type 1	LOC100757322	100757322	0.72	0.58	0.20	0.29	0.42	0.00	1.52	4.58	3.73	0.00	0.00	0.93
transmembrane protein 45A-like	LOC100757327	100757327	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 1094-like	LOC100757329	100757329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cationic amino acid transporter 3-like	LOC100757335	100757335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
protocadherin gamma-B1-like	LOC100757337	100757337	0.04	0.03	0.04	0.12	0.00	0.00	1.52	1.83	2.48	4.64	0.00	0.00
small ubiquitin-related modifier 2-A-like	LOC100757351	100757351	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29-like	LOC100757353	100757353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100757358	100757358	0.72	0.72	0.60	0.32	0.76	0.91	6.08	7.32	6.21	3.48	4.14	10.28

kalirin-like	LOC100757365	100757365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat-containing protein 92 pseudogene	LOC100757366	100757366	1.55	1.32	0.80	0.77	0.86	0.96	50.89	42.09	24.84	23.18	24.84	26.17
protein CTLA-2-beta-like	LOC100757369	100757369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rho GTPase-activating protein 20-like	LOC100757375	100757375	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
nuclear fragile X mental retardation-interacting protein 2-like	LOC100757378	100757378	16.86	17.49	13.57	15.53	15.69	15.86	143.55	129.02	91.91	63.74	42.43	32.71
interferon-induced guanylate-binding protein 2-like	LOC100757382	100757382	0.72	0.94	0.28	0.19	0.44	0.32	41.77	51.24	19.87	10.43	24.84	16.82
TAF5-like RNA polymerase II p300/CBP-associated factor-associated factor 65 kDa subunit 5L pseudogene	LOC100757385	100757385	5.65	5.06	5.29	4.85	4.52	4.64	241.53	210.46	213.64	209.76	183.19	187.87
olfactory receptor 10T2-like	LOC100757388	100757388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM127A-like	LOC100757391	100757391	17.90	14.65	18.54	9.64	6.59	10.72	34.94	42.09	27.33	19.70	9.31	10.28
inhibitor of growth protein 1 pseudogene	LOC100757394	100757394	10.00	9.91	15.14	7.27	10.50	11.11	0.00	2.75	0.00	1.16	0.00	0.00
guanine nucleotide-binding protein subunit beta-2-like 1 pseudogene	LOC100757395	100757395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6F1	LOC100757396	100757396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C12orf60	LOC100757398	100757398	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.92	0.00	2.32	0.00	0.00
myosin light polypeptide 6-like	LOC100757407	100757407	0.00	0.00	0.00	0.00	0.07	0.00	3.80	3.66	4.97	3.48	7.24	6.54
glutathione S-transferase omega-1 pseudogene	LOC100757416	100757416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
securin pseudogene	LOC100757418	100757418	0.48	0.52	0.29	0.45	0.53	0.59	16.71	18.30	11.18	16.22	19.66	21.50
F-box/WD repeat-containing protein 12-like	LOC100757422	100757422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 4A8	LOC100757423	100757423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cofilin-1 pseudogene	LOC100757424	100757424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gastric triacylglycerol lipase-like	LOC100757425	100757425	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
olfactory receptor 1013-like	LOC100757426	100757426	0.29	0.33	0.21	0.17	0.11	0.10	1.52	2.75	2.48	2.32	1.03	1.87
late cornified envelope protein 3D-like	LOC100757432	100757432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 664-like	LOC100757435	100757435	5.11	5.10	6.24	7.10	8.07	7.38	531.68	527.06	658.31	738.23	817.64	768.30
Growth-arrest-specific protein 2 domain containing protein	LOC100757436	100757436	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
suppressor of cytokine signaling 5-like	LOC100757448	100757448	0.29	0.46	0.43	0.18	0.40	0.38	10.63	16.47	13.66	5.79	15.52	17.76
tomoregulin-2-like	LOC100757450	100757450	4.76	4.71	6.20	3.33	3.50	2.67	102.54	102.48	129.18	71.85	80.73	56.08
olfactory receptor 5B3-like	LOC100757457	100757457	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S10 pseudogene	LOC100757459	100757459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100757460	100757460	1.07	1.45	1.46	1.51	1.60	1.52	75.95	99.74	104.34	104.30	103.50	101.88
proteasome subunit beta type-6 pseudogene	LOC100757462	100757462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100757465	LOC100757465	100757465	0.97	0.99	0.43	0.57	0.56	0.54	6.08	0.92	0.00	0.00	2.07	1.87
UDP-glucuronosyltransferase 1-8-like	LOC100757466	100757466	0.03	0.08	0.00	0.00	0.05	0.00	0.00	0.92	0.00	0.00	0.00	0.00
melanoma-associated antigen B3	LOC100757467	100757467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Krueppel-like factor 10 pseudogene	LOC100757470	100757470	0.02	0.00	0.00	0.00	0.03	0.05	0.76	0.00	0.00	0.00	1.03	1.87
keratin-associated protein 3-2	LOC100757471	100757471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100757473	100757473	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93

zinc finger protein 883-like	LOC100757474	100757474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.03	0.00
poly(A) polymerase alpha pseudogene	LOC100757475	100757475	0.59	0.87	0.42	0.48	0.53	0.31	18.23	23.79	16.15	11.59	16.56	14.95
X-linked lymphocyte-regulated protein 3A-like	LOC100757478	100757478	0.05	0.00	0.00	0.00	0.00	0.00	2.28	0.00	1.24	0.00	1.03	0.00
protein-arginine deiminase type-4	LOC100757481	100757481	0.12	0.05	0.00	0.00	0.00	0.00	2.28	0.92	1.24	0.00	0.00	0.00
40S ribosomal protein S23 pseudogene	LOC100757482	100757482	0.09	0.00	0.16	0.00	0.00	0.00	0.76	0.00	1.24	0.00	1.03	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100757485	100757485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-D-binding Myb-like transcription factor 1 pseudogene	LOC100757486	100757486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamyl aminopeptidase-like	LOC100757489	100757489	0.58	0.92	0.37	0.49	0.90	0.67	18.99	32.03	11.18	17.38	28.98	21.50
ferritin heavy polypeptide-like 17	LOC100757490	100757490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100757491	LOC100757491	100757491	0.19	0.22	0.17	0.05	0.02	0.02	28.86	38.43	17.39	12.75	4.14	6.54
uncharacterized LOC100757493	LOC100757493	100757493	23.13	21.08	16.19	14.74	14.14	14.85	34.18	29.28	17.39	18.54	17.59	6.54
60S ribosomal protein L18a pseudogene	LOC100757496	100757496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCHC domain-containing protein 9 pseudogene	LOC100757498	100757498	0.16	0.17	0.05	0.05	0.04	0.04	4.56	3.66	1.24	0.00	1.03	0.93
E3 SUMO-protein ligase NSE2-like	LOC100757511	100757511	6.15	4.89	4.19	4.58	4.61	5.56	160.26	149.15	126.69	114.73	106.60	129.92
chromosome unknown open reading frame, human C3orf70	LOC100757514	100757514	1.17	0.96	1.24	1.15	1.25	1.01	97.22	82.35	103.09	98.51	109.71	88.79
28S ribosomal protein S21, mitochondrial pseudogene	LOC100757516	100757516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
mannose-binding protein A	LOC100757517	100757517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L19-like	LOC100757518	100757518	0.05	0.00	0.00	0.08	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00

popy Class I histocompatibility antigen, A-1 alpha chain-like	LOC100757524	100757524	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
putative P2Y purinoceptor 10	LOC100757526	100757526	0.44	0.50	1.02	1.05	1.38	1.08	34.18	38.43	79.49	81.12	103.50	80.38
pirin pseudogene	LOC100757528	100757528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA-binding protein pseudogene	LOC100757529	100757529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100757533	100757533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase P 2	LOC100757534	100757534	1.44	1.01	3.90	2.69	2.39	2.67	33.42	21.96	94.40	61.42	48.64	57.95
	LOC100757535	100757535	39.19	39.03	33.30	28.53	23.23	25.83	2094.05	2094.51	1767.49	1510.07	1191.27	1263.67
keratin, type I cuticular Ha3-II	LOC100757537	100757537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2AX	LOC100757539	100757539	76.85	75.51	82.57	73.26	72.92	75.15	2714.59	2657.26	2926.36	2567.01	2567.80	2656.33
natural cytotoxicity triggering receptor 2-like	LOC100757541	100757541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T2-like	LOC100757545	100757545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acid trehalase-like protein 1	LOC100757546	100757546	13.11	11.76	12.71	13.08	10.74	11.17	734.47	674.38	724.14	704.62	628.24	686.98
thymosin beta-10 pseudogene	LOC100757549	100757549	69.41	70.05	55.44	42.79	50.71	48.71	394.96	412.68	329.15	231.78	274.27	261.71
Ig heavy chain V region 6.96-like	LOC100757551	100757551	0.00	0.00	0.00	0.00	0.00	0.00						
heterogeneous nuclear ribonucleoprotein A1-like	LOC100757559	100757559	0.90	1.50	1.09	0.61	0.70	0.64	20.51	42.09	28.57	18.54	17.59	17.76
serpin B9-like	LOC100757562	100757562	1.20	1.38	0.33	0.57	0.75	0.92	68.36	82.35	18.63	28.97	44.50	54.21
U6 snRNA-associated Sm-like protein LSm5 pseudogene	LOC100757563	100757563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
plasminogen activator inhibitor 1 RNA-binding protein pseudogene	LOC100757569	100757569	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 507	LOC100757571	100757571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P2-like	LOC100757574	100757574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100757575	100757575	0.03	0.02	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100757578	100757578	1.75	1.44	2.07	1.94	3.02	1.94	44.81	40.26	62.10	53.31	77.62	61.69
60S ribosomal protein L10a-like	LOC100757581	100757581	2.11	2.77	1.15	0.71	0.12	0.63	0.00	1.83	1.24	3.48	1.03	0.93
transcription elongation factor B polypeptide 1 pseudogene	LOC100757582	100757582	0.49	0.59	0.28	0.00	0.70	0.00	3.04	2.75	1.24	0.00	4.14	0.00
GRB2-associated-binding protein 2-like	LOC100757583	100757583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26	LOC100757586	100757586	9.02	8.13	6.99	3.65	3.61	4.65	61.52	54.90	43.47	17.38	20.70	28.97
chromosome unknown open reading frame, human C12orf66	LOC100757589	100757589	5.37	5.05	4.73	4.93	5.43	5.20	739.79	701.83	644.64	682.60	734.84	713.15
heterogeneous nuclear ribonucleoprotein F-like	LOC100757591	100757591	68.54	61.23	58.15	64.15	56.38	69.27	2542.18	2258.30	2157.50	2357.24	2056.52	2576.88
chromosome unknown open reading frame, human C19orf10	LOC100757594	100757594	75.31	74.41	82.64	64.48	57.10	62.79	2072.02	2065.23	2253.15	1829.93	1652.87	1753.44
malignant T-cell-amplified sequence 2	LOC100757597	100757597	10.39	11.90	9.32	8.42	10.05	10.05	217.99	250.72	196.25	176.16	207.00	213.10
chromosome unknown open reading frame, human C19orf40	LOC100757600	100757600	4.86	4.28	5.90	4.94	3.89	4.81	189.88	160.13	227.30	190.06	155.25	188.80
eukaryotic translation initiation factor 1 pseudogene	LOC100757603	100757603	11.40	13.31	5.64	6.64	7.53	7.06	520.28	495.03	392.50	418.37	387.08	414.06
la-related protein 4 pseudogene	LOC100757604	100757604	0.02	0.02	0.03	0.04	0.00	0.00	1.52	4.58	4.97	3.48	0.00	1.87
transcription factor BTF3 pseudogene	LOC100757605	100757605	2.48	2.50	1.60	1.02	1.76	0.93	21.27	17.39	6.21	3.48	7.24	8.41
T-cell receptor beta-2 chain C region-like	LOC100757609	100757609	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit f, mitochondrial-like	LOC100757610	100757610	0.04	0.05	0.07	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	0.00

GDP-fucose transporter 1 pseudogene	LOC100757612	100757612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 141-like	LOC100757613	100757613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100757615	100757615	0.85	0.96	0.59	0.79	0.78	0.68	25.82	32.03	24.84	26.66	25.87	27.11
inversin-B-like	LOC100757618	100757618	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein PF14_0175-like	LOC100757620	100757620	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
RNA-binding protein 7 pseudogene	LOC100757621	100757621	0.51	0.51	0.69	0.23	0.23	0.37	7.60	6.41	11.18	3.48	3.10	6.54
protocadherin gamma-A3-like	LOC100757622	100757622	0.03	0.01	0.05	0.00	0.03	0.03	2.28	0.92	3.73	1.16	2.07	1.87
secretoglobin family 2A member 2-like	LOC100757626	100757626	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DCN1-like protein 3 pseudogene	LOC100757630	100757630	0.79	0.87	0.73	0.87	0.68	0.55	10.63	18.30	18.63	20.86	10.35	11.22
60S acidic ribosomal protein P1 pseudogene	LOC100757637	100757637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor GPCRLTM7	LOC100757639	100757639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hemoglobin subunit alpha	LOC100757644	100757644	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor ENSP00000348552	LOC100757645	100757645	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L26-like	LOC100757647	100757647	2.78	3.09	3.06	2.10	2.57	1.73	24.31	22.88	27.33	18.54	31.05	15.89
uncharacterized protein C3orf38 homolog pseudogene	LOC100757653	100757653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
40S ribosomal protein S26	LOC100757655	100757655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein CTLA-2-beta-like	LOC100757657	100757657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anoctamin-6	LOC100757664	100757664	38.01	40.32	48.51	55.21	59.58	58.37	1937.58	2049.68	2439.46	2711.87	2953.85	2852.61

zinc finger protein 709	LOC100757671	100757671	6.37	6.66	7.26	8.18	8.42	8.42	481.55	484.97	530.37	607.27	611.68	629.03
40S ribosomal protein S10 pseudogene	LOC100757673	100757673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1 pseudogene	LOC100757678	100757678	0.07	0.08	0.00	0.22	0.08	0.06	0.00	0.00	0.00	3.48	0.00	0.93
heterogeneous nuclear ribonucleoproteins A2/B1 pseudogene	LOC100757680	100757680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3-like	LOC100757681	100757681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A.J	LOC100757684	100757684	9.13	9.06	9.14	2.48	1.35	2.22	86.59	77.78	78.25	23.18	19.66	18.69
pyrin and HIN domain-containing protein 1-like	LOC100757690	100757690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-8-like	LOC100757692	100757692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S4, X isoform-like	LOC100757701	100757701	0.60	0.66	0.71	0.68	0.78	0.51	18.99	24.71	28.57	31.29	30.01	17.76
sperm motility kinase-like	LOC100757707	100757707	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 4A8	LOC100757708	100757708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5-like	LOC100757709	100757709	1.09	1.31	0.95	0.35	0.78	0.61	31.14	33.86	24.84	6.95	18.63	14.95
gastric triacylglycerol lipase-like	LOC100757710	100757710	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1013	LOC100757711	100757711	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sodium-independent sulfate anion transporter	LOC100757714	100757714	10.53	10.29	11.75	9.83	8.14	9.61	490.66	463.92	531.61	428.80	360.18	436.49
late cornified envelope protein 3D-like	LOC100757718	100757718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative protein ZNF720	LOC100757721	100757721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C29-like	LOC100757723	100757723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

ras-related protein Rab-5B pseudogene	LOC100757726	100757726	0.04	0.00	0.00	0.00	0.06	0.05	2.28	2.75	0.00	1.16	1.03	0.93
zinc finger protein 639 pseudogene	LOC100757728	100757728	1.47	1.59	2.09	1.89	1.63	1.54	45.57	53.07	67.07	53.31	51.75	45.80
zinc finger protein 345-like	LOC100757733	100757733	3.60	3.31	4.24	5.17	5.60	4.42	382.81	350.46	453.36	543.53	579.59	465.47
olfactory receptor 2K2	LOC100757736	100757736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-binding protein RBBP4 pseudogene	LOC100757737	100757737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100757738	100757738	1.65	1.19	1.08	0.61	0.76	0.52	28.86	20.13	16.15	13.91	11.38	11.22
histo-blood group ABO system transferase 2	LOC100757742	100757742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L6 pseudogene	LOC100757744	100757744	4.75	4.66	3.46	2.09	3.23	2.31	82.03	78.69	60.86	38.24	54.85	42.99
chromosome unknown open reading frame, human C16orf74	LOC100757748	100757748	0.11	0.53	0.27	0.09	0.00	0.00	3.80	10.07	3.73	1.16	2.07	0.93
NUT family member Gm806-like	LOC100757750	100757750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-8-like	LOC100757751	100757751	0.01	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-12-like	LOC100757756	100757756	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear transport factor 2	LOC100757758	100757758	3.10	3.10	2.28	2.31	2.56	2.33	5.32	6.41	6.21	6.95	6.21	0.93
zinc finger protein 501-like	LOC100757759	100757759	0.66	0.59	0.63	0.50	0.74	0.65	50.89	47.58	53.41	38.24	55.89	45.80
X-linked lymphocyte-regulated protein 3A-like	LOC100757762	100757762	1.15	1.14	0.43	0.34	0.36	0.27	30.38	33.86	14.91	13.91	12.42	9.35
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100757768	100757768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100757769	100757769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A5-like	LOC100757770	100757770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

E3 ubiquitin-protein ligase RNF216-like	LOC100757771	100757771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 2-A	LOC100757772	100757772	0.98	0.81	0.54	0.06	0.03	0.00	18.23	17.39	2.48	4.64	2.07	3.74
nuclear fragile X mental retardation-interacting protein 2	LOC100757773	100757773	19.55	20.59	16.12	19.51	20.01	20.34	0.00	0.00	0.00	0.00	0.00	0.00
L-lactate dehydrogenase B chain pseudogene	LOC100757774	100757774	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26-like	LOC100757778	100757778	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L10-like	LOC100757781	100757781	22.12	18.15	18.70	12.20	13.73	16.98	226.34	192.16	192.52	126.32	135.58	171.98
chromosome unknown open reading frame, human CXorf66	LOC100757782	100757782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L4 pseudogene	LOC100757785	100757785	2.00	1.50	1.77	1.64	1.42	1.43	62.28	42.09	50.93	41.72	41.40	42.06
PRELI domain-containing protein 1, mitochondrial pseudogene	LOC100757787	100757787	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
myosin regulatory light chain 2, smooth muscle major isoform pseudogene	LOC100757788	100757788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myeloperoxidase-like	LOC100757792	100757792	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
cTAGE family member 5-like	LOC100757793	100757793	7.06	6.92	8.87	8.96	10.09	9.90	973.73	951.63	1228.42	1231.93	1363.08	1357.14
pulmonary surfactant-associated protein A	LOC100757798	100757798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M pseudogene	LOC100757799	100757799	0.08	0.10	0.02	0.06	0.08	0.08	5.32	6.41	1.24	3.48	4.14	4.67
HLA class I histocompatibility antigen, A-1 alpha chain-like	LOC100757804	100757804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative P2Y purinoceptor 10	LOC100757805	100757805	0.09	0.08	0.23	0.10	0.07	0.14	1.52	0.92	1.24	0.00	0.00	0.93
60S ribosomal protein L27a pseudogene	LOC100757806	100757806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
protein Red pseudogene	LOC100757807	100757807	0.02	0.02	0.00	0.03	0.00	0.02	0.76	1.83	0.00	1.16	0.00	0.93

elongation factor 1-alpha 1 pseudogene	LOC100757816	100757816	0.00	0.00	0.00	0.00	0.00	0.00	12.91	14.64	7.45	3.48	6.21	20.56
cytosolic beta-glucosidase	LOC100757820	100757820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100757822	100757822	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	0.00	0.93
tubulin alpha-1C chain pseudogene	LOC100757824	100757824	9.92	9.21	8.11	6.09	6.02	5.66	52.41	59.48	43.47	38.24	45.54	37.39
interferon-induced transmembrane protein 3	LOC100757825	100757825	126.73	112.33	132.33	134.54	110.63	121.53	1996.83	1798.04	2101.61	2069.83	1712.90	1867.47
serine/threonine-protein kinase RIO2 pseudogene	LOC100757827	100757827	0.02	0.02	0.00	0.00	0.03	0.11	0.76	0.92	0.00	0.00	1.03	3.74
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100757828	100757828	103.21	102.26	80.05	59.62	67.14	61.88	610.67	605.75	438.46	326.82	392.26	363.59
zinc finger protein 120-like	LOC100757831	100757831	3.40	3.73	4.01	4.17	4.96	4.61	155.71	177.52	175.13	197.02	231.84	218.71
Ig heavy chain V-III region VH26-like	LOC100757836	100757836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speedy protein B-like	LOC100757839	100757839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selection and upkeep of intraepithelial T-cells protein 2-like	LOC100757840	100757840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerases I and III subunit RPAC2	LOC100757843	100757843	171.58	176.89	195.36	191.02	192.72	190.47	2787.51	2903.40	3142.48	3043.32	3042.86	2980.66
histone H3.3-like	LOC100757845	100757845	0.22	0.00	0.00	0.06	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C15orf27	LOC100757853	100757853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.93
beta-defensin 130	LOC100757854	100757854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
olfactory receptor 494-like	LOC100757855	100757855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain 1 pseudogene	LOC100757857	100757857	0.14	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase Mu 1	LOC100757858	100757858	107.31	110.33	112.61	111.93	104.19	116.10	5041.06	5177.26	5286.32	5178.05	4865.47	5411.74

Ig heavy chain V region 3-like	LOC100757859	100757859	0.00	0.00	0.00	0.00	0.00	0.00						
zinc finger protein 26	LOC100757861	100757861	2.94	2.90	2.72	3.28	3.55	3.44	2.28	1.83	3.73	1.16	2.07	0.00
ubiquitin-60S ribosomal protein L40	LOC100757863	100757863	921.84	875.15	825.23	664.57	472.55	533.30	22032.71	21967.21	20744.09	17003.67	12900.07	13648.98
receptor tyrosine-protein kinase erbB-4	LOC100757865	100757865	0.04	0.05	0.03	0.09	0.13	0.02	1.52	1.83	1.24	3.48	5.17	0.93
heat shock factor-binding protein 1 pseudogene	LOC100757870	100757870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEST proteolytic signal-containing nuclear protein pseudogene	LOC100757880	100757880	0.08	0.00	0.13	0.00	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
proteasome subunit beta type-5 pseudogene	LOC100757888	100757888	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 4P4-like	LOC100757900	100757900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100757905	100757905	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf81	LOC100757921	100757921	0.42	0.66	0.00	0.00	0.00	0.00	15.19	19.22	1.24	0.00	1.03	0.00
olfactory receptor 4K14-like	LOC100757926	100757926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor ENSP00000348552	LOC100757930	100757930	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cellular nucleic acid-binding protein pseudogene	LOC100757938	100757938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5-like	LOC100757942	100757942	0.02	0.05	0.04	0.03	0.03	0.08	3.04	1.83	2.48	1.16	1.03	7.48
60S ribosomal protein L6-like	LOC100757946	100757946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 844-like	LOC100757955	100757955	0.65	0.52	0.41	0.54	0.81	0.57	67.60	52.16	53.41	70.69	72.45	60.75
60S ribosomal protein L15 pseudogene	LOC100757960	100757960	0.06	0.00	0.00	0.00	0.00	0.08	0.76	0.00	0.00	0.00	0.00	0.93
ubiquitin-conjugating enzyme E2 variant 1-like	LOC100757965	100757965	0.11	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	3.48	1.03	0.00

protein LSM14 homolog B-like	LOC100757966	100757966	13.77	14.04	13.08	11.21	12.24	11.64	258.24	265.36	207.43	163.41	171.81	156.09
retinoic acid early-inducible protein 1-alpha-like	LOC100757967	100757967	3.93	4.56	2.82	3.66	4.43	3.64	413.19	463.01	298.10	372.01	438.83	370.13
pyrin and HIN domain-containing protein 1-like	LOC100757974	100757974	0.09	0.06	0.13	0.22	0.14	0.14	5.32	3.66	8.69	13.91	9.31	11.22
40S ribosomal protein SA pseudogene	LOC100757975	100757975	15.47	12.71	14.30	11.67	4.79	8.46	299.26	244.31	281.95	223.67	86.94	159.83
keratin-associated protein 12-1	LOC100757976	100757976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
short coiled-coil protein-like	LOC100757977	100757977	0.20	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
bromodomain and WD repeat-containing protein 3-like	LOC100757981	100757981	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 4A5-like	LOC100757997	100757997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100757998	100757998	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9G4-like	LOC100758000	100758000	0.00	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00	1.16	0.00	0.93
late cornified envelope protein 3D-like	LOC100758008	100758008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L34 pseudogene	LOC100758010	100758010	4.67	3.16	4.05	2.15	3.21	1.70	25.82	11.90	17.39	15.07	19.66	16.82
alpha-enolase pseudogene	LOC100758015	100758015	3.26	3.59	3.88	3.08	2.61	2.27	0.00	0.00	0.00	0.00	0.00	0.00
ran guanine nucleotide release factor pseudogene	LOC100758019	100758019	1.18	1.19	1.74	0.68	1.03	0.51	23.55	22.88	24.84	9.27	12.42	13.09
zinc finger protein 660-like	LOC100758022	100758022	0.07	0.02	0.04	0.05	0.03	0.01	1.52	2.75	1.24	0.00	1.03	0.00
chromosome unknown open reading frame, human C9orf84	LOC100758025	100758025	0.01	0.01	0.00	0.01	0.01	0.00	1.52	1.83	0.00	2.32	2.07	0.93
40S ribosomal protein S17 pseudogene	LOC100758027	100758027	4.73	4.94	4.76	2.38	2.66	2.53	28.86	22.88	26.08	13.91	17.59	17.76
transcription elongation factor B polypeptide 1-like	LOC100758029	100758029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

histo-blood group ABO system transferase	LOC100758032	100758032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B2	LOC100758033	100758033	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100758039	100758039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-8-like	LOC100758042	100758042	0.10	0.07	0.00	0.02	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00
bystin-like	LOC100758046	100758046	0.80	0.74	0.51	0.78	0.86	0.27	13.67	10.07	12.42	15.07	11.38	4.67
transmembrane protease serine 11D-like	LOC100758048	100758048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sal-like protein 4	LOC100758049	100758049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 773-like	LOC100758050	100758050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
RING-box protein 2 pseudogene	LOC100758051	100758051	13.26	14.07	7.78	4.51	2.82	3.18	129.12	136.34	78.25	45.20	27.94	30.84
grpE protein homolog 2, mitochondrial pseudogene	LOC100758052	100758052	0.11	0.09	0.00	0.00	0.05	0.09	2.28	4.58	2.48	0.00	4.14	1.87
PWWP domain-containing protein MUM1L1	LOC100758054	100758054	0.48	0.49	0.24	0.33	0.35	0.41	56.21	55.82	33.54	41.72	35.19	44.86
JNK1/MAPK8-associated membrane protein pseudogene	LOC100758057	100758057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100758060	100758060	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100758062	100758062	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A1/2A42-like	LOC100758063	100758063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial-like	LOC100758064	100758064	0.05	0.03	0.03	0.03	0.00	0.05	2.28	0.92	1.24	1.16	0.00	1.87
histone H2A type 2-A	LOC100758065	100758065	1.72	1.31	0.55	0.14	0.17	0.18	34.18	29.28	14.91	3.48	4.14	1.87
cyclin-dependent kinase 12-like	LOC100758066	100758066	25.63	27.56	19.99	22.30	26.22	21.16	0.00	0.00	0.00	0.00	0.00	0.00

proto-oncogene FRAT1-like	LOC100758069	100758069	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleophosmin pseudogene	LOC100758076	100758076	8.29	8.27	7.88	7.30	6.87	5.41	290.90	293.73	268.29	310.59	272.20	241.14
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100758077	100758077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleolar RNA helicase 2 pseudogene	LOC100758078	100758078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26-like	LOC100758080	100758080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate kinase PKM pseudogene	LOC100758090	100758090	0.06	0.30	0.23	0.12	0.21	0.07	2.28	11.90	8.69	4.64	8.28	2.80
endothelial cell-specific chemotaxis regulator-like	LOC100758094	100758094	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.03	0.00
patr class I histocompatibility antigen, A-126 alpha chain-like	LOC100758095	100758095	0.00	0.03	0.01	0.00	0.00	0.00	0.76	3.66	0.00	1.16	0.00	0.00
NACHT, LRR and PYD domains-containing protein 9A-like	LOC100758096	100758096	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf70	LOC100758102	100758102	13.89	13.19	14.51	14.00	14.13	15.32	985.12	967.19	1065.71	1046.50	1039.13	1097.30
RNA-binding protein 4B	LOC100758105	100758105	9.16	8.54	8.26	7.50	7.03	7.97	205.08	193.99	199.98	157.61	171.81	197.22
non-histone chromosomal protein HMG-17	LOC100758108	100758108	0.21	1.80	0.21	1.29	0.18	0.67	7.60	10.98	1.24	6.95	0.00	2.80
apolipoprotein L3-like	LOC100758111	100758111	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.92	0.00	0.00	1.03	0.00
NUT family member Gm806-like	LOC100758113	100758113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced transmembrane protein 2	LOC100758119	100758119	0.09	0.12	0.13	0.21	0.28	0.28	7.60	8.24	12.42	18.54	21.73	22.43
aldose reductase-related protein 2	LOC100758120	100758120	0.00	0.04	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00
6-phosphofructokinase type C pseudogene	LOC100758124	100758124	0.02	0.02	0.00	0.05	0.00	0.02	0.76	0.92	0.00	2.32	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100758128	100758128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

tudor and KH domain-containing protein pseudogene	LOC100758130	100758130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selection and upkeep of intraepithelial T-cells protein 8-like	LOC100758132	100758132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin B9	LOC100758135	100758135	0.07	0.06	0.00	0.03	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00
NACHT, LRR and PYD domains-containing protein 1-like	LOC100758136	100758136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2-like	LOC100758138	100758138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC100758141	100758141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10V1-like	LOC100758143	100758143	0.15	0.00	0.10	0.00	0.08	0.11	4.56	4.58	3.73	0.00	6.21	2.80
beta-defensin 109-like	LOC100758145	100758145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
mesencephalic astrocyte-derived neurotrophic factor pseudogene	LOC100758146	100758146	0.07	0.24	0.11	0.00	0.14	0.25	0.76	0.92	1.24	0.00	0.00	0.93
AP-1 complex-associated regulatory protein	LOC100758150	100758150	23.39	23.46	17.95	22.83	25.03	24.34	1315.52	1315.82	1011.06	1291.04	1408.62	1376.77
transmembrane protein 101	LOC100758152	100758152	33.55	30.62	38.52	30.23	17.06	21.11	9.87	10.98	7.45	4.64	1.03	5.61
vomeronasal type-1 receptor 4-like	LOC100758153	100758153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced transmembrane protein 2-like	LOC100758155	100758155	56.82	50.72	56.00	58.09	49.12	52.88	10.63	10.98	9.94	4.64	4.14	6.54
RNMT-activating mini protein pseudogene	LOC100758156	100758156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DPH3 homolog	LOC100758158	100758158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A.Z pseudogene	LOC100758162	100758162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein arginine N-methyltransferase 5-like	LOC100758180	100758180	0.06	0.17	0.05	0.02	0.02	0.00	4.56	10.07	3.73	1.16	1.03	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100758182	100758182	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

chromosome unknown open reading frame, human C7orf34	LOC100758186	100758186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C16-like	LOC100758191	100758191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenylate kinase 4, mitochondrial pseudogene	LOC100758193	100758193	0.05	0.00	0.00	0.00	0.07	0.07	0.76	0.00	0.00	1.16	1.03	0.93
caspase-6 pseudogene	LOC100758198	100758198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoproteins C1/C2-like	LOC100758202	100758202	1.12	1.06	1.13	1.08	1.17	0.86	20.51	14.64	21.12	18.54	20.70	14.02
60S ribosomal protein L30-like	LOC100758208	100758208	253.54	237.48	272.23	237.13	151.38	169.90	1848.72	1715.69	1930.20	1569.18	998.76	1110.39
60S ribosomal protein L7a pseudogene	LOC100758213	100758213	3.10	2.67	2.21	1.96	1.47	1.76	25.06	13.73	16.15	17.38	8.28	13.09
platelet factor 4-like	LOC100758214	100758214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1	LOC100758221	100758221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EF-hand calcium-binding domain-containing protein 10	LOC100758222	100758222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor ENSP00000348552	LOC100758224	100758224	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
brachyury protein-like	LOC100758225	100758225	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
FERM and PDZ domain-containing protein 2-like	LOC100758229	100758229	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
5'-AMP-activated protein kinase subunit gamma-1 pseudogene	LOC100758233	100758233	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
arylacetamide deacetylase-like 4	LOC100758234	100758234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A)-specific ribonuclease PARN-like domain-containing protein 1 pseudogene	LOC100758238	100758238	0.04	0.02	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC100758242	100758242	0.00	0.00	0.00	0.00	0.00	0.00						
serine/threonine-protein phosphatase 4 regulatory subunit 1-like	LOC100758248	100758248	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

disintegrin and metalloproteinase domain-containing protein 21-like	LOC100758249	100758249	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
odorant-binding protein 2a-like	LOC100758255	100758255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear pore complex protein Nup85-like	LOC100758257	100758257	27.34	21.54	28.89	20.48	17.01	18.26	259.00	215.95	285.68	190.06	155.25	172.91
40S ribosomal protein S15 pseudogene	LOC100758261	100758261	24.53	23.67	12.88	3.43	2.33	3.19	171.66	160.13	86.95	23.18	15.52	21.50
interferon-activable protein 203-like	LOC100758264	100758264	0.02	0.05	0.00	0.03	0.06	0.00	0.76	1.83	2.48	1.16	1.03	0.00
keratin-associated protein 12-1-like	LOC100758265	100758265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L39 pseudogene	LOC100758276	100758276	6.44	5.82	3.66	4.60	3.39	7.41	7.60	5.49	3.73	3.48	5.17	7.48
alpha-methylacyl-CoA racemase	LOC100758278	100758278	38.94	45.42	47.58	45.01	45.94	42.43	865.87	990.98	1017.27	1014.05	992.55	951.49
pre-mRNA-splicing regulator WTAP pseudogene	LOC100758281	100758281	3.09	3.03	3.19	2.85	3.29	3.16	36.46	45.75	40.99	40.56	66.24	60.75
olfactory receptor 1013-like	LOC100758287	100758287	0.00	0.07	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.00
thioredoxin	LOC100758292	100758292	366.95	352.52	283.34	303.26	297.24	293.07	5240.82	5241.31	4066.59	4387.67	4398.69	4272.38
mitochondrial import inner membrane translocase subunit Tim23 pseudogene	LOC100758295	100758295	1.80	1.16	1.02	0.37	0.48	0.58	22.03	12.81	11.18	10.43	8.28	9.35
chromosome unknown open reading frame, human C10orf54	LOC100758303	100758303	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
male-enhanced antigen 1 pseudogene	LOC100758304	100758304	6.04	5.27	5.74	4.56	5.02	4.42	7.60	9.15	6.21	8.11	8.28	6.54
zinc finger protein 420-like	LOC100758306	100758306	0.60	0.58	0.80	0.88	0.99	1.02	34.94	31.11	44.72	55.63	58.99	63.56
lymphocyte antigen 6H	LOC100758308	100758308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prorelaxin-like	LOC100758313	100758313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1C chain-like	LOC100758315	100758315	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.92	0.00	0.00	0.00	0.93

olfactory receptor 5B2	LOC100758317	100758317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 7 member 13	LOC100758319	100758319	0.02	0.02	0.03	0.02	0.04	0.06	0.76	0.92	2.48	1.16	4.14	2.80
low-density lipoprotein receptor-related protein 10 pseudogene	LOC100758321	100758321	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain-containing protein 26-like	LOC100758324	100758324	0.00	0.02	0.00	0.00	0.01	0.00	0.00	1.83	0.00	0.00	1.03	0.93
zinc finger protein 30 homolog	LOC100758327	100758327	2.28	1.90	2.12	2.31	2.18	2.28	175.45	152.81	161.47	180.79	166.63	172.91
zinc finger protein 773-like	LOC100758333	100758333	0.98	0.78	0.57	0.74	0.79	0.61	73.68	72.29	54.65	56.79	69.34	57.01
ficolin-2	LOC100758341	100758341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100758342	100758342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
tyrosine-protein phosphatase non-receptor type substrate 1-like	LOC100758347	100758347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 5 pseudogene	LOC100758349	100758349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 2-A	LOC100758350	100758350	0.55	0.76	0.76	0.07	0.04	0.00	0.76	1.83	3.73	0.00	0.00	0.93
myc proto-oncogene protein-like	LOC100758352	100758352	569.25	572.52	536.23	515.50	475.44	467.99	14967.48	15090.73	14195.81	13508.37	12479.86	12379.70
chromosome unknown open reading frame, human C6orf62	LOC100758362	100758362	22.57	21.13	22.60	25.71	28.24	25.74	2108.48	1970.98	2130.18	2408.24	2612.31	2403.97
sperm-associated antigen 6	LOC100758363	100758363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bcl-2-associated transcription factor 1 pseudogene	LOC100758364	100758364	1.96	2.00	1.40	1.43	1.62	1.72	11.39	23.79	8.69	8.11	9.31	7.48
40S ribosomal protein S11-like	LOC100758366	100758366	0.32	0.43	0.44	0.52	0.48	0.25	13.67	12.81	14.91	9.27	11.38	9.35
chromosome unknown open reading frame, human C17orf47	LOC100758370	100758370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100758371	100758371	4.44	2.50	2.38	2.00	2.35	1.47	31.90	18.30	17.39	13.91	16.56	9.35

60S ribosomal protein L23a pseudogene	LOC100758373	100758373	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC100758375	100758375	2.89	2.80	2.51	2.31	4.78	2.56	84.31	84.18	94.40	96.19	145.93	102.81
activated RNA polymerase II transcriptional coactivator p15	LOC100758384	100758384	0.06	0.07	0.00	0.20	0.00	0.16	0.00	0.00	0.00	0.00	1.03	0.00
diphosphoinositol polyphosphate phosphohydrolase 3-alpha	LOC100758392	100758392	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
NUT family member Gm806-like	LOC100758397	100758397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vesicle-associated membrane protein 8 pseudogene	LOC100758398	100758398	3.64	3.18	3.00	3.48	3.59	4.03	11.39	9.15	6.21	13.91	12.42	12.15
putative V-set and immunoglobulin domain-containing-like protein IGHV4OR15-8	LOC100758408	100758408	0.00	0.00	0.00	0.00	0.00	0.00						
MAM domain-containing protein 2	LOC100758409	100758409	37.73	39.19	39.21	44.15	46.63	44.45	1893.53	1992.94	1988.58	2264.53	2363.91	2210.49
60S ribosomal protein L22-like 1	LOC100758411	100758411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
selection and upkeep of intraepithelial T-cells protein 1-like	LOC100758417	100758417	0.04	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.00	0.00	0.00	0.00
Ig lambda chain V-VI region EB4-like	LOC100758418	100758418	0.00	0.00	0.00	0.00	0.00	0.00						
serpin B9-like	LOC100758420	100758420	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L22 pseudogene	LOC100758421	100758421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A.Z pseudogene	LOC100758422	100758422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S6 pseudogene	LOC100758423	100758423	2.21	2.02	1.67	1.17	2.01	1.45	30.38	22.88	17.39	16.22	30.01	20.56
histone H3.3 pseudogene	LOC100758425	100758425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf82	LOC100758426	100758426	0.74	0.76	0.37	0.53	0.50	0.51	60.00	64.05	42.23	46.36	37.26	43.93
rho GDP-dissociation inhibitor 1 pseudogene	LOC100758428	100758428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 10V1	LOC100758429	100758429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinetochore protein Spc25 pseudogene	LOC100758435	100758435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 184C pseudogene	LOC100758437	100758437	0.00	0.06	0.00	0.00	0.03	0.00	0.00	1.83	0.00	1.16	1.03	0.00
olfactory receptor 1468	LOC100758441	100758441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDC42 small effector protein 2	LOC100758446	100758446	10.22	10.50	10.31	12.41	11.72	12.19	166.34	165.62	190.04	205.13	182.16	197.22
THO complex subunit 1-like	LOC100758451	100758451	0.33	0.39	0.10	0.08	0.36	0.21	7.60	10.98	1.24	1.16	7.24	5.61
zinc finger protein SNAI1 pseudogene	LOC100758454	100758454	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C15orf60	LOC100758463	100758463	0.19	0.08	0.05	0.05	0.22	0.08	0.00	0.92	1.24	1.16	2.07	0.93
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100758468	100758468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleophosmin-like	LOC100758469	100758469	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
grpE protein homolog 1, mitochondrial pseudogene	LOC100758470	100758470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig-like V-type domain-containing protein FAM187A	LOC100758476	100758476	4.34	4.30	3.22	3.01	3.38	3.60	291.66	283.66	214.88	202.81	227.70	244.88
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100758478	100758478	0.78	0.48	0.42	0.19	0.40	0.22	8.35	5.49	3.73	3.48	6.21	3.74
olfactory receptor 4C11-like	LOC100758479	100758479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A15-like	LOC100758480	100758480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100758481	100758481	7.23	6.02	6.28	4.24	3.20	5.56	40.26	36.60	29.81	22.02	14.49	26.17
tetratricopeptide repeat protein 9C pseudogene	LOC100758495	100758495	0.00	0.12	0.08	0.07	0.00	0.06	0.00	1.83	1.24	1.16	0.00	0.93
ETS translocation variant 3-like protein	LOC100758497	100758497	8.82	8.32	6.42	8.11	5.85	3.34	41.02	29.28	27.33	32.45	23.80	14.02

40S ribosomal protein S7 pseudogene	LOC100758499	100758499	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
lysophosphatidic acid receptor 4-like	LOC100758504	100758504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K3-like	LOC100758505	100758505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5A2	LOC100758506	100758506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100758509	LOC100758509	100758509	0.06	0.08	0.06	0.07	0.14	0.10	12.91	16.47	8.69	9.27	14.49	12.15
protein FAM98A pseudogene	LOC100758510	100758510	9.44	9.92	10.47	9.74	10.38	11.09	375.21	398.95	411.13	394.03	404.68	443.97
peptidyl-prolyl cis-trans isomerase A-like	LOC100758511	100758511	16.03	20.02	11.75	5.65	17.15	8.29	66.08	83.27	47.20	17.38	71.41	30.84
chromosome unknown open reading frame, human C12orf40	LOC100758516	100758516	0.24	0.23	0.13	0.14	0.26	0.22	20.51	21.05	12.42	11.59	21.73	18.69
eukaryotic translation initiation factor 4E pseudogene	LOC100758517	100758517	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 4	LOC100758519	100758519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosine 3'-phospho 5'-phosphosulfate transporter 1 pseudogene	LOC100758522	100758522	0.50	0.31	0.62	0.28	0.30	0.59	12.91	9.15	16.15	6.95	6.21	13.09
tubulin alpha-1B chain-like	LOC100758525	100758525	0.02	0.00	0.00	0.07	0.06	0.03	0.76	0.00	0.00	2.32	2.07	0.93
eukaryotic translation initiation factor 2 subunit 2 pseudogene	LOC100758535	100758535	8.91	7.82	6.66	6.04	6.31	4.99	136.72	111.63	100.61	71.85	76.59	69.17
60S ribosomal protein L29 pseudogene	LOC100758536	100758536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U3 small nucleolar RNA-associated protein 14 homolog B	LOC100758539	100758539	1.36	1.31	2.20	2.37	2.34	2.16	163.30	156.47	263.32	288.57	282.55	263.58
lysozyme C-2-like	LOC100758541	100758541	0.98	1.21	1.26	1.57	1.48	1.54	30.38	42.09	42.23	48.67	38.29	51.41
sialidase-3 pseudogene	LOC100758542	100758542	1.60	1.48	1.18	1.74	1.35	1.64	1.52	0.00	0.00	2.32	0.00	1.87
uncharacterized LOC100758547	LOC100758547	100758547	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

interferon-activable protein 204	LOC100758550	100758550	5.96	5.42	8.10	9.52	8.91	8.20	574.97	516.99	792.45	924.82	847.65	794.47
keratin-associated protein 12-1	LOC100758552	100758552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100758567	100758567	12.79	15.08	16.63	12.94	13.02	14.18	18.99	15.56	16.15	9.27	10.35	9.35
60S ribosomal protein L36a-like	LOC100758569	100758569	21.81	23.12	19.73	16.45	22.29	17.44	46.33	63.14	57.14	41.72	51.75	25.24
40S ribosomal protein S27-like pseudogene	LOC100758571	100758571	3.37	5.77	3.40	2.41	3.93	2.10	28.10	30.20	24.84	15.07	16.56	13.09
olfactory receptor 2G3	LOC100758576	100758576	0.06	0.00	0.05	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
eukaryotic translation initiation factor 1A	LOC100758579	100758579	90.52	90.03	81.17	90.29	101.40	94.81	2760.17	2722.22	2451.88	2751.28	3020.09	2936.73
mitochondrial import inner membrane translocase subunit Tim17-A-like	LOC100758581	100758581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein sprouty homolog 4-like	LOC100758585	100758585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
epoxide hydrolase 1	LOC100758590	100758590	131.01	125.38	179.07	165.69	124.16	147.91	3304.76	3196.21	4552.25	4489.66	3522.06	3925.61
olfactory receptor 6S1	LOC100758593	100758593	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf105	LOC100758594	100758594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100758597	100758597	2.00	2.03	2.20	2.79	2.80	2.44	196.72	204.97	218.61	280.46	282.55	242.08
olfactory receptor 5B2	LOC100758609	100758609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf10	LOC100758614	100758614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L6 pseudogene	LOC100758615	100758615	2.26	2.49	1.69	1.16	2.38	1.24	48.61	53.07	34.78	24.34	49.68	26.17
chromosome unknown open reading frame, human C4orf36	LOC100758616	100758616	0.76	0.59	0.48	0.60	0.13	0.42	30.38	22.88	16.15	22.02	9.31	15.89
zinc finger protein 30-like	LOC100758618	100758618	0.03	0.04	0.00	0.10	0.00	0.00	0.76	1.83	0.00	3.48	2.07	2.80

bcl-2-related protein A1-like	LOC100758620	100758620	0.95	0.81	0.00	0.00	0.00	0.00	18.23	15.56	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100758621	100758621	2.44	1.38	0.87	0.67	1.83	0.80	15.95	10.07	7.45	5.79	12.42	5.61
olfactory receptor 5D16	LOC100758622	100758622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 9-3-like	LOC100758623	100758623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2B17-like	LOC100758624	100758624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10G7	LOC100758628	100758628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100758630	100758630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 2-like	LOC100758631	100758631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin beta-2B chain-like	LOC100758633	100758633	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
Ig heavy chain V-III region VH26-like	LOC100758635	100758635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-3-3 protein theta	LOC100758637	100758637	0.09	0.03	0.08	0.00	0.00	0.03	2.28	0.00	2.48	0.00	0.00	0.00
phosphatidylinositide phosphatase SAC2-like	LOC100758638	100758638	1.17	1.30	1.19	0.84	1.07	1.84	44.05	58.56	39.75	33.61	40.36	41.13
eukaryotic translation initiation factor 5 pseudogene	LOC100758640	100758640	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
histone H2B type 1-like	LOC100758641	100758641	13.17	13.89	20.96	20.02	20.56	19.33	650.17	698.17	1049.56	1005.94	1020.50	973.93
zinc finger protein ZFAT pseudogene	LOC100758643	100758643	1.61	1.35	1.25	0.80	0.59	0.57	28.86	25.62	22.36	18.54	8.28	14.95
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100758654	100758654	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.87
60S ribosomal protein L29 pseudogene	LOC100758655	100758655	0.07	0.09	0.59	0.22	0.30	0.09	0.76	2.75	9.94	2.32	3.10	5.61
baculoviral IAP repeat-containing protein 1b	LOC100758657	100758657	0.28	0.23	0.06	0.11	0.08	0.05	47.09	42.09	17.39	23.18	7.24	9.35

triosephosphate isomerase-like	LOC100758660	100758660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100758661	100758661	4.30	4.53	3.67	2.88	3.34	3.35	32.66	33.86	23.60	22.02	15.52	26.17
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100758672	100758672	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
60S ribosomal protein L32 pseudogene	LOC100758682	100758682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
steroid 17-alpha-hydroxylase/17,20 lyase	LOC100758683	100758683	0.00	0.00	0.03	0.00	0.00	0.00	0.76	0.00	1.24	2.32	1.03	2.80
polypyrimidine tract-binding protein 1	LOC100758684	100758684	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
phosphoglycerate mutase 1-like	LOC100758688	100758688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf73	LOC100758691	100758691	0.00	0.18	0.26	0.25	0.00	0.00	0.76	2.75	3.73	1.16	1.03	0.00
fatty acyl-CoA reductase 2	LOC100758702	100758702	0.33	0.26	0.33	0.46	0.48	0.25	22.79	19.22	22.36	28.97	32.08	17.76
chromosome unknown open reading frame, human C12orf57	LOC100758705	100758705	20.68	20.00	17.45	11.19	7.59	7.94	653.20	633.20	544.03	353.47	246.33	252.36
selection and upkeep of intraepithelial T-cells protein 8-like	LOC100758708	100758708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NACHT, LRR and PYD domains-containing protein 1-like	LOC100758714	100758714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10V1-like	LOC100758720	100758720	0.12	0.17	0.05	0.22	0.15	0.08	0.76	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase assembly protein COX16 homolog, mitochondrial	LOC100758725	100758725	6.81	6.99	6.68	5.12	6.27	6.89	257.48	267.19	236.00	213.24	230.80	269.18
uncharacterized LOC100758727	LOC100758727	100758727	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	2.07	0.00
	LOC100758728	100758728	56.15	55.80	52.78	55.26	54.35	55.39	2216.34	2256.47	2167.44	2222.81	2164.16	2238.53
PRAME family member 12-like	LOC100758729	100758729	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L30 pseudogene	LOC100758730	100758730	476.20	443.95	513.14	488.35	434.64	443.55	2491.29	2338.83	2604.66	2337.54	2138.28	2136.65

cyclin-dependent kinase 11B	LOC100758733	100758733	25.51	21.66	22.34	27.42	29.74	27.85	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100758735	100758735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histidine--tRNA ligase, cytoplasmic pseudogene	LOC100758736	100758736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatidylethanolamine-binding protein 1-like	LOC100758742	100758742	0.42	0.25	0.17	0.05	0.00	0.18	3.80	2.75	1.24	0.00	0.00	1.87
beta-defensin 19-like	LOC100758753	100758753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vesicle-associated membrane protein-associated protein B pseudogene	LOC100758759	100758759	1.54	2.46	1.31	1.27	1.99	1.22	135.20	153.73	110.55	101.98	170.77	117.77
N-alpha-acetyltransferase 40 pseudogene	LOC100758760	100758760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
transmembrane protein 101-like	LOC100758764	100758764	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 45A-like	LOC100758768	100758768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4P4	LOC100758769	100758769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A16-like	LOC100758770	100758770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein DEK pseudogene	LOC100758771	100758771	0.27	0.21	0.07	0.00	0.06	0.11	4.56	2.75	1.24	0.00	1.03	1.87
cytochrome P450 2C29-like	LOC100758779	100758779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 5 pseudogene	LOC100758782	100758782	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
26S protease regulatory subunit 4 pseudogene	LOC100758785	100758785	0.29	0.11	0.09	0.23	0.06	0.08	10.63	5.49	2.48	9.27	4.14	2.80
C-X-C motif chemokine 2-like	LOC100758790	100758790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K3-like	LOC100758794	100758794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1	LOC100758795	100758795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

vasculin-like protein 1 pseudogene	LOC100758798	100758798	0.14	0.33	0.00	0.11	0.14	0.13	3.04	8.24	1.24	2.32	3.10	2.80
C-terminal-binding protein 2 pseudogene	LOC100758799	100758799	0.05	0.24	0.05	0.16	0.09	0.04	0.76	5.49	1.24	3.48	2.07	0.93
40S ribosomal protein S11-like	LOC100758800	100758800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100758805	LOC100758805	100758805	3.54	4.42	4.67	4.17	4.99	6.77	71.40	86.01	91.91	90.40	81.76	113.10
transmembrane protease serine 11D-like	LOC100758807	100758807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 2	LOC100758808	100758808	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipid phosphate phosphatase-related protein type 5	LOC100758814	100758814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
chromosome unknown open reading frame, human C10orf62	LOC100758819	100758819	0.35	0.32	0.28	0.14	0.18	0.23	19.75	18.30	16.15	9.27	10.35	14.02
olfactory receptor 14A2-like	LOC100758824	100758824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative short-chain dehydrogenase/reductase family 42E member 2	LOC100758827	100758827	1.89	2.09	0.89	0.72	1.32	1.79	685.86	681.70	311.76	272.35	459.53	542.11
malignant fibrous histiocytoma-amplified sequence 1 homolog pseudogene	LOC100758829	100758829	0.02	0.00	0.00	0.00	0.02	0.02	0.76	0.00	0.00	0.00	1.03	0.93
olfactory receptor 6N2	LOC100758837	100758837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Actin-like containing protein	LOC100758838	100758838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin-like protein KIF18A pseudogene	LOC100758842	100758842	6.27	5.79	6.64	6.96	10.15	9.32	341.79	324.84	397.47	419.53	557.86	524.35
zinc finger protein 14-like	LOC100758856	100758856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein kinase MARK2-like	LOC100758857	100758857	0.01	0.00	0.02	0.00	0.00	0.02	0.76	0.00	3.73	0.00	0.00	0.00
splicing factor U2AF 35 kDa subunit pseudogene	LOC100758860	100758860	39.74	41.36	35.16	36.15	38.68	37.96	1180.32	1206.01	1104.22	1021.01	1006.01	1038.42
chromosome unknown open reading frame, human C9orf89	LOC100758861	100758861	36.47	38.36	17.94	15.65	18.06	17.45	706.37	711.90	342.82	288.57	334.30	315.92

histone H2B type 1-like	LOC100758862	100758862	0.13	0.00	0.00	0.00	0.03	0.02	0.76	0.00	0.00	0.00	0.00	0.00
proteasome maturation protein pseudogene	LOC100758867	100758867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 2Z1-like	LOC100758870	100758870	0.03	0.03	0.04	0.23	0.13	0.05	1.52	1.83	2.48	13.91	7.24	2.80
solute carrier family 25 member 39 pseudogene	LOC100758875	100758875	0.43	0.52	0.36	0.18	0.42	0.04	12.15	14.64	7.45	4.64	11.38	0.93
sphingolipid delta(4)-desaturase DES1	LOC100758876	100758876	0.10	0.16	0.11	0.00	0.09	0.00	3.04	3.66	2.48	0.00	2.07	0.00
cytochrome c oxidase copper chaperone	LOC100758878	100758878	48.94	57.98	53.56	36.21	40.05	31.31	514.21	605.75	521.68	351.15	386.05	309.38
40S ribosomal protein S2 pseudogene	LOC100758883	100758883	0.00	0.08	0.06	0.10	0.05	0.04	1.52	2.75	1.24	3.48	1.03	0.93
heterogeneous nuclear ribonucleoprotein F-like	LOC100758884	100758884	1.95	2.78	1.95	1.66	2.01	1.69	14.43	23.79	11.18	13.91	13.45	14.95
40S ribosomal protein S26-like	LOC100758886	100758886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable E3 ubiquitin-protein ligase makorin-2 pseudogene	LOC100758890	100758890	0.11	0.14	0.02	0.08	0.07	0.00	10.63	10.07	3.73	2.32	5.17	1.87
heat shock protein HSP 90-beta pseudogene	LOC100758894	100758894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100758905	100758905	2.08	1.90	2.25	2.66	2.75	2.48	398.00	374.25	424.79	512.24	526.81	496.31
60S ribosomal protein L23a pseudogene	LOC100758907	100758907	0.05	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 5D18-like	LOC100758908	100758908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10G9-like	LOC100758915	100758915	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100758916	100758916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1 pseudogene	LOC100758918	100758918	1.08	0.80	1.04	0.86	0.50	0.93	12.91	10.98	12.42	10.43	6.21	10.28
survival motor neuron protein pseudogene	LOC100758922	100758922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 1537-like	LOC100758923	100758923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1 pseudogene	LOC100758924	100758924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger MYND domain-containing protein 19 pseudogene	LOC100758925	100758925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysine-specific demethylase 4D-like	LOC100758929	100758929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf44	LOC100758930	100758930	6.38	5.67	6.68	5.50	5.87	5.99	431.42	376.99	469.51	380.13	387.08	405.65
resistin-like alpha	LOC100758932	100758932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
baculoviral IAP repeat-containing protein 2 pseudogene	LOC100758933	100758933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
cysteine-rich PDZ-binding protein pseudogene	LOC100758938	100758938	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
small EDRK-rich factor 1	LOC100758944	100758944	23.61	24.69	26.09	24.40	28.10	27.09	176.21	212.29	213.64	186.59	211.14	216.84
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100758945	100758945	29.90	24.11	23.01	15.91	19.91	24.98	330.40	396.21	372.63	271.19	323.95	257.03
60S ribosomal protein L21-like	LOC100758946	100758946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100758948	100758948	0.00	0.00	0.11	0.20	0.09	0.16	0.76	1.83	3.73	6.95	2.07	1.87
E3 ubiquitin-protein ligase HERC2	LOC100758957	100758957	10.34	10.49	10.85	11.71	12.69	13.00	4943.84	5120.53	5282.60	5635.83	6143.68	6205.27
F-actin-capping protein subunit alpha-1 pseudogene	LOC100758959	100758959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class I histocompatibility antigen, alpha chain F-like	LOC100758961	100758961	0.00	0.00	0.00	0.04	0.16	0.11	1.52	2.75	2.48	2.32	7.24	7.48
polycomb group RING finger protein 5 pseudogene	LOC100758966	100758966	0.44	0.30	0.24	0.12	0.14	0.31	6.84	4.58	3.73	1.16	2.07	4.67
mitochondrial import inner membrane translocase subunit Tim23 pseudogene	LOC100758967	100758967	0.45	0.30	0.12	0.08	0.03	0.16	5.32	0.92	1.24	1.16	0.00	1.87
GRB2-associated-binding protein 2 pseudogene	LOC100758974	100758974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

alpha-enolase pseudogene	LOC100758979	100758979	0.61	0.89	0.76	1.15	0.40	0.37	26.58	21.96	26.08	28.97	18.63	14.95
bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3	LOC100758983	100758983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AFG3-like protein 1	LOC100758986	100758986	24.46	23.54	25.94	25.17	25.25	25.99	1977.08	1994.77	2126.45	2108.08	2061.69	2128.24
60S ribosomal protein L17 pseudogene	LOC100758997	100758997	0.38	0.67	0.99	0.27	0.38	0.20	4.56	6.41	14.91	5.79	2.07	1.87
elongation factor 1-alpha 1 pseudogene	LOC100759000	100759000	371.22	396.23	389.47	396.67	405.34	359.05	5331.97	5966.93	6425.32	7475.03	6611.49	6593.16
cytochrome b-c1 complex subunit Rieske, mitochondrial	LOC100759002	100759002	112.32	116.37	133.83	136.41	143.40	141.09	2690.29	2769.81	3173.53	3196.30	3362.67	3301.25
solute carrier family 22 member 9-like	LOC100759009	100759009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vesicle-associated membrane protein 3 pseudogene	LOC100759012	100759012	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100759013	100759013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11A1	LOC100759014	100759014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L21 pseudogene	LOC100759017	100759017	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100759019	100759019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triosephosphate isomerase pseudogene	LOC100759023	100759023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100759028	100759028	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L6-like	LOC100759032	100759032	0.07	0.00	0.06	0.00	0.14	0.04	1.52	0.00	1.24	0.00	3.10	0.93
transcription factor BTF3 pseudogene	LOC100759037	100759037	2.06	3.36	1.78	1.43	1.73	1.11	15.19	27.45	16.15	12.75	16.56	9.35
chromosome unknown open reading frame, human C19orf57	LOC100759042	100759042	3.69	3.28	4.34	3.40	2.95	3.03	252.93	229.67	293.13	252.64	214.24	225.26
polypyrimidine tract-binding protein 1 pseudogene	LOC100759056	100759056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 4C6-like	LOC100759057	100759057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A15-like	LOC100759058	100759058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1019	LOC100759061	100759061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-beta pseudogene	LOC100759066	100759066	0.18	0.14	0.00	0.00	0.08	0.07	2.28	2.75	1.24	1.16	1.03	0.93
60S ribosomal protein L18a pseudogene	LOC100759068	100759068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable UDP-sugar transporter protein SLC35A4	LOC100759071	100759071	1.96	2.14	2.25	1.92	1.63	2.02	47.09	44.84	50.93	39.40	39.33	51.41
taste receptor type 1 member 1	LOC100759079	100759079	2.16	2.16	1.60	1.55	1.50	1.31	362.30	368.76	272.02	274.66	278.41	287.88
olfactory receptor 4F4-like	LOC100759083	100759083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RAD18	LOC100759084	100759084	2.89	2.92	2.76	3.49	4.31	3.76	110.89	129.02	106.82	152.98	186.30	142.07
GRB2-associated-binding protein 2 pseudogene	LOC100759089	100759089	0.00	0.00	0.00	0.00	0.05	0.00	0.76	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member B pseudogene	LOC100759093	100759093	10.99	12.09	9.72	9.33	10.24	9.08	243.05	278.17	217.37	208.61	224.59	202.82
uncharacterized LOC100759095	LOC100759095	100759095	4.90	7.06	1.76	2.00	6.03	4.62	66.08	74.12	36.02	40.56	64.17	61.69
arylacetamide deacetylase-like 4	LOC100759096	100759096	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100759100	100759100	1.12	1.25	1.18	0.45	0.75	0.62	89.63	75.95	72.04	45.20	44.50	46.73
N-alpha-acetyltransferase 35, NatC auxiliary subunit pseudogene	LOC100759103	100759103	0.07	0.08	0.05	0.11	0.10	0.05	4.56	3.66	2.48	5.79	5.17	2.80
Ig heavy chain V-III region VH26-like	LOC100759105	100759105	0.00	0.00	0.00	0.00	0.00	0.00						
nuclear receptor-binding factor 2 pseudogene	LOC100759106	100759106	0.00	0.02	0.08	0.08	0.04	0.00	0.00	0.00	1.24	1.16	0.00	0.00
glutathione S-transferase omega-2	LOC100759107	100759107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

membrane-spanning 4-domains subfamily A member 4A-like	LOC100759112	100759112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14A2-like	LOC100759115	100759115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox protein Hox-D11-like	LOC100759116	100759116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A1/2A42	LOC100759118	100759118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100759119	100759119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1-like	LOC100759121	100759121	0.13	0.10	0.05	0.02	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import inner membrane translocase subunit Tim23 pseudogene	LOC100759125	100759125	0.80	1.01	0.64	0.75	0.67	0.53	18.23	21.05	14.91	13.91	13.45	12.15
TATA box-binding protein-associated factor RNA polymerase I subunit B pseudogene	LOC100759127	100759127	0.12	0.05	0.17	0.14	0.00	0.02	6.08	2.75	8.69	6.95	0.00	0.00
olfactory receptor 6K6	LOC100759128	100759128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-4	LOC100759130	100759130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation elongation factor 1 epsilon-1 pseudogene	LOC100759131	100759131	0.63	0.53	0.88	0.25	0.22	0.12	9.11	9.15	11.18	2.32	3.10	1.87
nucleophosmin-like	LOC100759134	100759134	0.00	0.05	0.00	0.00	0.06	0.11	0.00	0.00	0.00	0.00	1.03	0.93
putative spermatogenesis-associated protein 31D3	LOC100759146	100759146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleophosmin pseudogene	LOC100759149	100759149	0.11	0.04	0.18	0.00	0.00	0.09	3.04	0.92	4.97	0.00	1.03	6.54
histone H2A type 1-F	LOC100759151	100759151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L21	LOC100759156	100759156	16.19	12.37	11.58	11.19	13.35	10.57	130.64	94.25	81.98	79.97	98.32	80.38
aldehyde oxidase 2	LOC100759157	100759157	0.01	0.03	0.01	0.00	0.00	0.01	3.04	5.49	1.24	0.00	1.03	3.74
40S ribosomal protein S19-like	LOC100759160	100759160	0.20	0.12	0.16	0.00	0.55	0.25	1.52	0.92	1.24	0.00	4.14	1.87

40S ribosomal protein S2 pseudogene	LOC100759167	100759167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100759173	100759173	3.10	2.94	4.17	3.88	4.56	3.65	189.88	178.43	249.66	250.33	285.66	234.60
contactin-1	LOC100759179	100759179	4.36	4.67	0.23	0.33	0.00	0.00	286.35	269.93	14.91	16.22	0.00	0.00
protein FAM187B-like	LOC100759185	100759185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100759189	100759189	1.81	1.60	1.09	0.68	1.03	1.01	37.98	31.11	17.39	15.07	19.66	18.69
N-alpha-acetyltransferase 50 pseudogene	LOC100759192	100759192	0.31	0.66	0.26	0.12	0.43	0.15	3.04	6.41	2.48	1.16	4.14	0.93
olfactory receptor 143-like	LOC100759196	100759196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5L1	LOC100759198	100759198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase	LOC100759199	100759199	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glutamine synthetase-like	LOC100759200	100759200	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
proteasome subunit alpha type-6 pseudogene	LOC100759202	100759202	2.91	2.81	3.46	3.10	3.96	4.13	116.97	85.10	115.51	115.89	141.79	158.89
olfactory receptor 4D5	LOC100759204	100759204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC100759209	100759209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100759211	100759211	0.00	0.00	0.00	0.00	0.00	0.10	3.04	6.41	7.45	4.64	0.00	5.61
NUT family member Gm806-like	LOC100759212	100759212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TP53-regulated inhibitor of apoptosis 1 pseudogene	LOC100759213	100759213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial carnitine/acylcarnitine carrier protein pseudogene	LOC100759215	100759215	0.00	0.08	0.21	0.00	0.00	0.00	0.00	0.92	2.48	0.00	0.00	0.00
keratin, type I cytoskeletal 27	LOC100759216	100759216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

vomeronasal type-1 receptor 4-like	LOC100759218	100759218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
resistin-like alpha	LOC100759219	100759219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L12-like	LOC100759223	100759223	235.27	227.39	200.98	120.42	73.76	75.11	2928.78	2824.71	2492.87	1435.90	864.21	893.54
bromo adjacent homology domain-containing 1 protein-like	LOC100759233	100759233	1.43	1.40	1.02	0.78	0.63	0.51	3.80	7.32	4.97	3.48	2.07	2.80
mitochondrial import inner membrane translocase subunit Tim13 pseudogene	LOC100759234	100759234	97.74	116.41	95.98	31.47	9.10	10.58	139.00	163.79	121.72	34.77	11.38	12.15
cytochrome P450 1B1	LOC100759241	100759241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100759246	100759246	5.55	5.55	7.22	6.26	6.31	6.41	311.41	330.33	419.83	360.42	378.80	381.35
putative 60S ribosomal protein L37a	LOC100759247	100759247	10.36	13.72	10.04	10.07	10.19	6.85	53.17	64.05	47.20	46.36	45.54	27.11
60S ribosomal protein L23a pseudogene	LOC100759249	100759249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 J2 pseudogene	LOC100759251	100759251	2.98	2.76	2.36	2.36	1.93	2.18	23.55	21.05	16.15	5.79	8.28	10.28
60S ribosomal protein L10-like	LOC100759252	100759252	0.56	0.57	0.22	0.12	0.29	0.16	0.76	0.92	1.24	0.00	0.00	0.93
metal transporter CNNM2-like	LOC100759256	100759256	3.45	3.89	3.23	2.92	2.04	1.85	144.31	153.73	130.42	120.53	83.83	84.12
platelet-activating factor acetylhydrolase IB subunit beta-like	LOC100759264	100759264	0.52	0.77	0.53	0.62	0.41	0.57	26.58	33.86	26.08	27.81	23.80	24.30
nucleophosmin pseudogene	LOC100759270	100759270	0.04	0.07	0.14	0.07	0.00	0.00	0.76	0.92	2.48	2.32	0.00	0.00
uncharacterized LOC100759275	LOC100759275	100759275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7A-related protein, mitochondrial	LOC100759281	100759281	111.14	116.36	127.57	121.77	126.16	126.90	3875.93	4086.54	4474.00	4231.22	4363.50	4401.36
Ig lambda chain V-VI region SUT-like	LOC100759284	100759284	0.00	0.00	0.00	0.00	0.00	0.00						
vomeronasal type-2 receptor 1-like	LOC100759301	100759301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

dnaJ homolog subfamily C member 14 pseudogene	LOC100759304	100759304	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	1.03	0.93
UDP-glucose 4-epimerase	LOC100759306	100759306	6.42	5.20	7.01	6.43	6.37	5.61	55.45	43.01	77.01	50.99	57.96	51.41
ran-specific GTPase-activating protein pseudogene	LOC100759308	100759308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A.Z pseudogene	LOC100759313	100759313	0.56	0.97	0.77	0.30	0.35	0.23	2.28	7.32	3.73	1.16	3.10	0.00
opioid growth factor receptor pseudogene	LOC100759317	100759317	0.09	0.10	0.12	0.06	0.02	0.09	3.80	2.75	4.97	2.32	1.03	3.74
BPI fold-containing family B member 3-like	LOC100759326	100759326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
teashirt homolog 3-like	LOC100759329	100759329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beclin-2-like	LOC100759331	100759331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3-like	LOC100759332	100759332	2.76	5.29	4.34	5.53	3.78	4.16	18.99	32.94	17.39	32.45	8.28	25.24
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100759335	100759335	0.06	0.00	0.00	0.00	0.04	0.00	1.52	0.00	0.00	0.00	1.03	0.00
transmembrane protein 45A-like	LOC100759339	100759339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C6-like	LOC100759340	100759340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A16	LOC100759341	100759341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class II histocompatibility antigen, DP beta 1 chain-like	LOC100759342	100759342	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
olfactory receptor 1020	LOC100759344	100759344	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15 pseudogene	LOC100759354	100759354	0.03	0.00	0.10	0.05	0.04	0.00	2.28	0.00	2.48	1.16	1.03	0.00
olfactory receptor 2L13-like	LOC100759355	100759355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-hydroxycholesterol 7-alpha-hydroxylase	LOC100759356	100759356	2.74	2.66	2.96	3.38	4.21	3.94	210.39	213.20	232.27	257.28	314.64	303.77

immunoglobulin omega chain-like	LOC100759362	100759362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K15-like	LOC100759363	100759363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5A1	LOC100759364	100759364	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor ENSP00000348552	LOC100759366	100759366	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23 pseudogene	LOC100759371	100759371	0.83	1.00	0.41	0.00	0.35	0.00	7.60	10.07	3.73	0.00	3.10	0.00
arylacetamide deacetylase-like 4	LOC100759379	100759379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative SMEK homolog 3	LOC100759383	100759383	0.02	0.01	0.04	0.02	0.00	0.00	1.52	0.92	2.48	1.16	0.00	0.00
zinc finger protein 420-like	LOC100759388	100759388	2.69	2.38	3.17	3.12	3.66	3.49	230.14	213.20	264.56	263.07	296.01	297.22
40S ribosomal protein S14 pseudogene	LOC100759391	100759391	1.83	1.88	1.61	1.42	1.14	1.12	21.27	21.05	17.39	15.07	12.42	11.22
transmembrane protein 127 pseudogene	LOC100759396	100759396	0.14	0.12	0.00	0.07	0.31	0.03	1.52	0.00	0.00	0.00	2.07	0.00
membrane-spanning 4-domains subfamily A member 4D-like	LOC100759397	100759397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14A2-like	LOC100759400	100759400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A7-like	LOC100759403	100759403	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T29-like	LOC100759404	100759404	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 4	LOC100759406	100759406	5.45	4.20	3.66	4.65	5.40	5.47	18.23	15.56	12.42	19.70	17.59	20.56
interferon alpha-12-like	LOC100759411	100759411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM104A-like	LOC100759413	100759413	8.48	7.65	4.48	4.34	4.63	4.32	426.10	432.81	250.90	249.17	274.27	265.45
chromosome unknown open reading frame, human C19orf70	LOC100759422	100759422	94.87	90.88	88.64	80.26	67.75	81.59	1483.38	1421.96	1408.53	1207.59	1074.32	1272.09

Fc receptor-like protein 2	LOC100759428	100759428	0.00	0.00	0.06	0.12	0.00	0.00	0.00	0.00	2.48	5.79	0.00	0.00
60S ribosomal protein L27a-like	LOC100759430	100759430	2.00	2.35	2.18	0.86	1.83	1.29	13.67	21.05	17.39	5.79	14.49	9.35
sperm motility kinase X-like	LOC100759433	100759433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
galectin-1 pseudogene	LOC100759436	100759436	0.76	1.27	1.05	1.01	0.94	0.75	6.84	11.90	7.45	8.11	8.28	6.54
uncharacterized LOC100759437	LOC100759437	100759437	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat and IQ domain-containing protein 1	LOC100759441	100759441	0.00	0.03	0.00	0.02	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
calcyclin-binding protein pseudogene	LOC100759444	100759444	0.63	1.13	0.58	0.24	0.46	0.32	26.58	31.11	28.57	15.07	17.59	14.95
39S ribosomal protein L1, mitochondrial-like	LOC100759447	100759447	0.74	0.42	0.31	0.45	0.36	0.31	10.63	9.15	4.97	8.11	5.17	3.74
SEC14-like protein 4	LOC100759451	100759451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100759458	100759458	0.15	0.13	0.12	0.08	0.17	0.15	16.71	14.64	11.18	8.11	14.49	14.02
chromosome unknown open reading frame, human C11orf85	LOC100759463	100759463	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
eukaryotic translation initiation factor 4E pseudogene	LOC100759468	100759468	22.71	25.22	19.59	19.71	20.95	20.75	518.01	625.88	476.96	489.06	526.81	500.98
60S ribosomal protein L10-like	LOC100759472	100759472	7.47	8.63	6.12	4.94	5.96	4.03	98.74	115.29	74.53	62.58	74.52	54.21
nucleoplasmin-3 pseudogene	LOC100759480	100759480	0.06	0.00	0.19	0.00	0.00	0.15	0.76	0.92	4.97	1.16	1.03	2.80
olfactory receptor 145	LOC100759481	100759481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13F1	LOC100759482	100759482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5D18	LOC100759483	100759483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small ubiquitin-related modifier 2	LOC100759487	100759487	26.58	34.49	37.89	36.48	39.12	22.29	274.19	311.11	315.49	254.96	235.98	154.22

olfactory receptor 10G9	LOC100759491	100759491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2B1-like	LOC100759494	100759494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100759496	LOC100759496	100759496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100759497	100759497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 S pseudogene	LOC100759498	100759498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100759499	100759499	0.13	0.04	0.08	0.02	0.05	0.00	1.52	0.00	1.24	0.00	1.03	0.00
PRAME family member 12-like	LOC100759500	100759500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
putative tripartite motif-containing protein 43C	LOC100759504	100759504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor-associated transmembrane adapter 1	LOC100759508	100759508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100759523	100759523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prohibitin-2-like	LOC100759526	100759526	0.11	0.00	0.06	0.05	0.00	0.09	2.28	0.92	2.48	1.16	0.00	1.87
ribonuclease P protein subunit p21	LOC100759534	100759534	5.33	5.20	4.74	1.94	1.25	1.02	169.38	168.37	135.39	54.47	16.56	15.89
agmatinase, mitochondrial-like	LOC100759536	100759536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-binding protein inhibitor ID-2 pseudogene	LOC100759537	100759537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S6 pseudogene	LOC100759539	100759539	0.10	0.23	0.20	0.04	0.20	0.09	3.04	7.32	6.21	1.16	6.21	2.80
liver carboxylesterase-like	LOC100759544	100759544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase assembly factor 4 homolog, mitochondrial	LOC100759549	100759549	24.44	26.77	23.64	19.41	20.73	18.97	627.38	696.34	627.25	521.51	570.28	521.55
Ig lambda chain V-1 region	LOC100759552	100759552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HD domain-containing protein 2 pseudogene	LOC100759553	100759553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
contactin-associated protein-like 3	LOC100759554	100759554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock cognate 71 kDa protein pseudogene	LOC100759556	100759556	15.11	15.38	17.24	16.30	13.10	14.49	330.40	296.47	295.62	308.27	219.42	329.94
putative olfactory receptor 51H1	LOC100759558	100759558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf17	LOC100759564	100759564	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.93
serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform pseudogene	LOC100759568	100759568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMM domain-containing protein 7 pseudogene	LOC100759581	100759581	2.00	1.52	1.83	1.26	0.75	0.96	9.87	6.41	7.45	2.32	3.10	4.67
vomeronasal type-2 receptor 1-like	LOC100759584	100759584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100759586	100759586	0.21	0.17	0.34	0.08	0.22	0.21	6.08	4.58	11.18	1.16	5.17	7.48
ubiquitin-conjugating enzyme E2 variant 1-like	LOC100759587	100759587	0.09	0.00	0.14	0.24	0.00	0.00	0.00	0.92	2.48	3.48	1.03	0.93
vomeronasal type-1 receptor 4-like	LOC100759589	100759589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein SA pseudogene	LOC100759591	100759591	0.44	0.41	0.36	0.05	0.00	0.08	9.87	9.15	8.69	1.16	0.00	2.80
calcium-binding and coiled-coil domain-containing protein 2 pseudogene	LOC100759592	100759592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol dehydrogenase class-3 pseudogene	LOC100759594	100759594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit A pseudogene	LOC100759598	100759598	10.99	11.27	9.77	9.97	6.53	6.85	159.50	159.22	146.57	142.55	78.66	117.77
taste receptor type 2 member 135	LOC100759618	100759618	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C11-like	LOC100759622	100759622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 140-like	LOC100759623	100759623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

gastric triacylglycerol lipase-like	LOC100759625	100759625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5M10-like	LOC100759626	100759626	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative uncharacterized protein FLJ22184	LOC100759627	100759627	0.01	0.00	0.00	0.01	0.02	0.02	0.76	0.00	0.00	1.16	2.07	2.80
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100759637	100759637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100759639	100759639	0.10	0.08	0.09	0.12	0.22	0.16	1.52	2.75	1.24	1.16	3.10	2.80
lamina-associated polypeptide 2, isoform beta	LOC100759640	100759640	125.47	129.53	145.51	149.52	160.11	151.77	2907.52	3050.72	3379.72	3477.92	3667.99	3502.21
olfactory receptor 2M3-like	LOC100759650	100759650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D6	LOC100759652	100759652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor ENSP00000348552	LOC100759654	100759654	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative ATP-dependent RNA helicase PI10	LOC100759657	100759657	0.00	0.04	0.00	0.00	0.03	0.00	2.28	1.83	0.00	0.00	1.03	0.00
NADH dehydrogenase [ubiquinone] 1 subunit C2 pseudogene	LOC100759660	100759660	0.27	0.33	0.00	0.45	0.19	0.00	2.28	2.75	1.24	2.32	1.03	0.93
acyl-protein thioesterase 1 pseudogene	LOC100759661	100759661	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transcription initiation factor TFIID subunit 9-like	LOC100759662	100759662	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3-like	LOC100759664	100759664	1.72	2.62	2.46	1.59	2.15	1.72	9.11	10.07	9.94	8.11	8.28	8.41
40S ribosomal protein S15a pseudogene	LOC100759669	100759669	5.01	3.49	3.57	3.44	2.60	3.70	28.10	16.47	18.63	13.91	16.56	22.43
olfactory receptor 51E2	LOC100759672	100759672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7-like	LOC100759675	100759675	10.25	6.81	6.38	6.08	7.23	7.24	175.45	118.95	89.43	75.33	97.29	73.84
poly(A) polymerase alpha-like	LOC100759677	100759677	0.57	0.48	0.37	0.23	0.35	0.31	17.47	14.64	12.42	9.27	14.49	6.54

60S ribosomal protein L23-like	LOC100759678	100759678	0.48	0.06	0.18	0.17	0.38	0.41	2.28	0.92	1.24	1.16	2.07	1.87
von Willebrand factor A domain-containing protein 5A-like	LOC100759681	100759681	13.61	15.04	11.38	12.96	23.53	23.06	994.24	1099.87	823.50	916.71	1670.47	1626.33
interferon-induced guanylate-binding protein 1-like	LOC100759682	100759682	0.03	0.05	0.04	0.00	0.00	0.00	1.52	3.66	2.48	0.00	0.00	0.00
microtubule-associated proteins 1A/1B light chain 3B pseudogene	LOC100759686	100759686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inhibitor of growth protein 1-like	LOC100759689	100759689	0.92	0.81	0.64	0.84	0.99	1.03	4.56	1.83	1.24	3.48	5.17	10.28
speckle-type POZ protein pseudogene	LOC100759690	100759690	0.04	0.00	0.05	0.22	0.08	0.14	2.28	0.00	1.24	5.79	2.07	2.80
26S proteasome non-ATPase regulatory subunit 3	LOC100759692	100759692	546.14	538.68	420.52	347.58	320.44	338.41	6071.76	6040.14	4750.98	4184.86	3773.56	3901.31
60S ribosomal protein L7a-like	LOC100759693	100759693	13.56	15.33	13.92	14.57	11.07	9.72	112.41	98.82	83.22	103.14	55.89	74.77
THO complex subunit 3-like	LOC100759697	100759697	0.21	0.11	0.23	0.00	0.22	0.04	4.56	1.83	3.73	0.00	4.14	1.87
intelectin-1a-like	LOC100759699	100759699	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-2-like	LOC100759701	100759701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyadenylate-binding protein 1 pseudogene	LOC100759704	100759704	4.08	3.78	3.54	3.46	3.92	3.08	43.29	51.24	48.44	40.56	46.57	28.97
protein FRG1 pseudogene	LOC100759708	100759708	1.45	1.45	1.21	1.47	2.38	2.59	40.26	37.52	33.54	39.40	64.17	68.23
hyaluronidase-like	LOC100759710	100759710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S5 pseudogene	LOC100759715	100759715	1.09	1.28	1.12	0.28	0.25	0.22	476.99	344.97	360.21	114.73	66.24	68.23
tubulin alpha-1 chain-like	LOC100759721	100759721	0.58	0.42	0.38	0.35	0.28	0.33	5.32	1.83	3.73	3.48	2.07	1.87
vesicle-associated membrane protein-associated protein A-like	LOC100759732	100759732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
basic leucine zipper and W2 domain-containing protein 2 pseudogene	LOC100759734	100759734	0.10	0.14	0.25	0.09	0.16	0.07	4.56	5.49	9.94	3.48	7.24	2.80

filaggrin-like	LOC100759735	100759735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cation transport regulator-like protein 2 pseudogene	LOC100759736	100759736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2-like	LOC100759737	100759737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-12	LOC100759741	100759741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L8 pseudogene	LOC100759742	100759742	0.75	1.06	0.72	0.34	0.55	0.00	12.91	18.30	12.42	5.79	9.31	0.00
60S ribosomal protein L36a-like	LOC100759744	100759744	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
caspase-12-like	LOC100759746	100759746	3.80	3.88	2.95	2.57	3.74	3.79	268.88	267.19	197.49	173.84	248.40	263.58
zinc finger protein 501-like	LOC100759748	100759748	0.03	0.02	0.00	0.00	0.04	0.00	3.04	1.83	2.48	2.32	7.24	5.61
lymphocyte antigen 6A-2/6E-1-like	LOC100759749	100759749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7B, mitochondrial pseudogene	LOC100759754	100759754	0.00	0.44	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	4.14	0.00
interferon-inducible GTPase 1-like	LOC100759759	100759759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
undifferentiated embryonic cell transcription factor 1 pseudogene	LOC100759768	100759768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 180-like	LOC100759771	100759771	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 8B3	LOC100759772	100759772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 2A regulatory subunit B" subunit gamma pseudogene	LOC100759774	100759774	0.29	0.19	0.30	0.28	0.37	0.23	9.87	6.41	7.45	9.27	12.42	7.48
olfactory receptor 5D14	LOC100759775	100759775	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC100759776	100759776	0.76	1.12	1.26	0.47	1.06	0.54	15.19	10.98	12.42	8.11	15.52	6.54
histamine N-methyltransferase	LOC100759779	100759779	0.15	0.09	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00

olfactory receptor 10G6	LOC100759783	100759783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
meteorin-like protein pseudogene	LOC100759785	100759785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
cytochrome P450 2B1-like	LOC100759787	100759787	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
40S ribosomal protein S13 pseudogene	LOC100759789	100759789	0.10	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	1.16	0.00	0.00
tripartite motif-containing protein 6-like	LOC100759791	100759791	0.04	0.02	0.07	0.02	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat-containing protein 5B	LOC100759797	100759797	6.15	5.72	7.05	7.52	8.69	7.78	3.80	0.00	2.48	2.32	2.07	1.87
heterogeneous nuclear ribonucleoprotein A1-like	LOC100759802	100759802	7.16	6.95	5.75	5.53	7.02	5.13	303.06	306.54	255.87	243.37	292.90	227.12
40S ribosomal protein S15	LOC100759804	100759804	13.87	11.14	10.54	5.37	4.40	4.52	413.19	409.02	382.56	215.56	193.54	210.30
centromere protein O pseudogene	LOC100759807	100759807	0.07	0.04	0.00	0.00	0.15	0.04	1.52	0.92	0.00	0.00	4.14	0.93
40S ribosomal protein S18 pseudogene	LOC100759812	100759812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable G-protein coupled receptor 141	LOC100759821	100759821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium- and chloride-dependent transporter XTRP3B	LOC100759829	100759829	0.09	0.07	0.02	0.01	0.09	0.08	13.67	6.41	2.48	4.64	11.38	11.22
poly(A) RNA polymerase, mitochondrial	LOC100759832	100759832	15.09	15.31	14.98	16.43	16.45	15.53	707.13	726.54	693.08	750.98	765.89	730.91
acylcarnitine hydrolase-like	LOC100759838	100759838	0.05	0.06	0.05	0.05	0.09	0.04	3.80	5.49	4.97	3.48	5.17	2.80
spindle and kinetochore-associated protein 3-like	LOC100759845	100759845	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spindle pole body component 110-like	LOC100759848	100759848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 51H1	LOC100759849	100759849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100759850	100759850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100759851	LOC100759851	100759851	8.25	8.25	6.23	6.51	7.89	7.69	1554.02	1570.20	1363.81	1369.84	1633.21	1668.39
Ig heavy chain V-I region V35-like	LOC100759854	100759854	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC100759856	LOC100759856	100759856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 4	LOC100759860	100759860	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf185	LOC100759862	100759862	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf66	LOC100759873	100759873	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
L-threonine 3-dehydrogenase, mitochondrial	LOC100759874	100759874	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 1	LOC100759878	100759878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B4	LOC100759880	100759880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-1B-glycoprotein-like	LOC100759881	100759881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetylglucosaminyl-phosphatidylinositol biosynthetic protein pseudogene	LOC100759884	100759884	0.06	0.08	0.13	0.12	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00
5-hydroxytryptamine receptor 5B	LOC100759887	100759887	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf72	LOC100759903	100759903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-splicing factor 38A pseudogene	LOC100759904	100759904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein NipSnap homolog 2 pseudogene	LOC100759907	100759907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M-phase phosphoprotein 6 pseudogene	LOC100759910	100759910	0.46	0.39	0.39	0.26	0.21	0.25	10.63	8.24	8.69	5.79	4.14	5.61
olfactory receptor 4P4	LOC100759911	100759911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100759912	100759912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

RLA class II histocompatibility antigen, DP alpha-1 chain	LOC100759913	100759913	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 5M10-like	LOC100759915	100759915	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RNF5 pseudogene	LOC100759916	100759916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3	LOC100759921	100759921	1.74	1.26	1.04	0.65	0.87	0.27	9.11	10.07	4.97	4.64	5.17	0.93
adenylate kinase 4, mitochondrial pseudogene	LOC100759922	100759922	0.44	0.33	0.32	0.26	0.00	0.34	6.08	4.58	3.73	3.48	0.00	4.67
programmed cell death protein 5 pseudogene	LOC100759924	100759924	5.61	5.13	5.43	4.11	2.87	2.48	45.57	45.75	42.23	24.34	17.59	16.82
60S ribosomal protein L23a pseudogene	LOC100759928	100759928	0.64	0.33	0.46	0.00	0.26	0.06	5.32	3.66	3.73	0.00	2.07	0.00
polyadenylate-binding protein 4 pseudogene	LOC100759930	100759930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf86	LOC100759935	100759935	0.03	0.04	0.00	0.05	0.00	0.00	1.52	1.83	0.00	1.16	0.00	0.00
immunoglobulin omega chain	LOC100759939	100759939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29	LOC100759940	100759940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D9-like	LOC100759941	100759941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100759943	LOC100759943	100759943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CMRF35-like molecule 3	LOC100759951	100759951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100759955	100759955	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	1.03	0.00
	LOC100759959	100759959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I2	LOC100759960	100759960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-II region SESS-like	LOC100759962	100759962	0.00	0.00	0.00	0.00	0.00	0.00						

chromosome unknown open reading frame, human C17orf67	LOC100759971	100759971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family G member 3-like	LOC100759972	100759972	0.11	0.00	0.04	0.02	0.00	0.00	1.52	0.00	2.48	1.16	0.00	0.00
alpha-1B-glycoprotein-like	LOC100759976	100759976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100759977	100759977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 2-like	LOC100759978	100759978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100759979	100759979	20.14	16.16	13.04	8.49	10.76	9.47	15.95	12.81	9.94	10.43	8.28	4.67
olfactory receptor 8B12-like	LOC100759980	100759980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf78	LOC100759982	100759982	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 2	LOC100759984	100759984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2G3-like	LOC100759985	100759985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
intelectin-1a-like	LOC100759987	100759987	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARVEL domain-containing protein 3-like	LOC100759990	100759990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-lysine N-methyltransferase SETDB2 pseudogene	LOC100759993	100759993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hyaluronidase PH-20	LOC100759996	100759996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fc receptor-like protein 1	LOC100759999	100759999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
40S ribosomal protein S4, X isoform-like	LOC100760008	100760008	47.55	50.45	45.97	37.40	45.64	39.47	149.63	181.18	154.02	115.89	158.35	96.27
dnaJ homolog subfamily A member 1 pseudogene	LOC100760009	100760009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a pseudogene	LOC100760012	100760012	0.66	0.87	0.26	0.44	0.54	0.30	4.56	6.41	2.48	3.48	6.21	2.80

histone H1.5	LOC100760013	100760013	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
putative deoxyribose-phosphate aldolase pseudogene	LOC100760014	100760014	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
isopentenyl-diphosphate Delta-isomerase 1-like	LOC100760015	100760015	0.05	0.06	0.09	0.00	0.00	0.06	0.76	0.92	1.24	0.00	0.00	0.93
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100760019	100760019	117.92	122.08	96.34	103.27	83.76	103.99	566.62	578.30	480.69	409.10	321.88	387.89
transmembrane emp24 domain-containing protein 7	LOC100760020	100760020	28.97	28.15	27.63	30.95	37.07	33.57	2618.13	2560.26	2521.44	2804.59	3330.59	3060.11
leucine-rich repeat-containing protein 70	LOC100760022	100760022	0.47	0.46	0.22	0.21	0.18	0.06	16.71	19.22	6.21	6.95	9.31	1.87
60S ribosomal protein L18a-like	LOC100760023	100760023	0.00	0.08	0.00	0.00	0.00	0.00	6.84	10.98	6.21	3.48	2.07	0.00
uncharacterized LOC100760024	LOC100760024	100760024	0.10	0.11	0.00	0.00	0.00	0.00	6.08	8.24	0.00	0.00	0.00	0.00
pre-mRNA-splicing regulator WTAP	LOC100760025	100760025	66.65	66.15	58.16	62.77	69.19	69.27	492.18	527.06	438.46	439.23	500.93	466.40
exocyst complex component 3-like protein	LOC100760026	100760026	0.19	0.08	0.14	0.04	0.05	0.03	15.19	6.41	9.94	2.32	5.17	4.67
interferon alpha-12-like	LOC100760028	100760028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100760029	100760029	0.00	0.06	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00	1.03	0.00
zinc finger protein 420-like	LOC100760035	100760035	2.14	1.76	2.13	2.27	2.45	2.44	102.54	83.27	110.55	118.21	112.81	120.57
40S ribosomal protein S2 pseudogene	LOC100760046	100760046	0.22	0.10	0.07	0.00	0.03	0.07	0.76	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1	LOC100760047	100760047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D2 pseudogene	LOC100760048	100760048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c-like	LOC100760052	100760052	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	2.48	1.16	0.00	0.00
small integral membrane protein 15-like	LOC100760057	100760057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 8B3-like	LOC100760061	100760061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13C9	LOC100760063	100760063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5D18	LOC100760064	100760064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis-associated protein 31-like	LOC100760067	100760067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
plasminogen activator inhibitor 1 RNA-binding protein pseudogene	LOC100760068	100760068	25.61	29.37	28.23	24.65	17.41	14.19	832.45	948.89	917.90	791.54	556.82	459.86
chromosome unknown open reading frame, human C2orf88	LOC100760069	100760069	0.00	0.00	0.00	0.00	0.00	0.14	0.76	0.00	0.00	1.16	1.03	0.93
olfactory receptor 10S1	LOC100760073	100760073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf70	LOC100760075	100760075	0.12	0.10	0.10	0.25	0.26	0.18	8.35	7.32	6.21	16.22	12.42	11.22
short-chain dehydrogenase/reductase family 16C member 6	LOC100760076	100760076	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I2	LOC100760078	100760078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol dehydrogenase 1	LOC100760081	100760081	0.03	0.01	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27	LOC100760082	100760082	43.17	46.21	33.53	27.46	30.80	26.03	129.88	80.52	65.83	46.36	40.36	56.08
uncharacterized LOC100760083	LOC100760083	100760083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromodomain Y-like protein	LOC100760087	100760087	0.07	0.27	0.08	0.18	0.15	0.23	3.04	10.98	4.97	13.91	7.24	8.41
proto-oncogene FRAT1-like	LOC100760088	100760088	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100760090	100760090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromobox protein homolog 3 pseudogene	LOC100760099	100760099	0.30	0.36	0.22	0.09	0.15	0.14	3.80	5.49	2.48	1.16	2.07	3.74
olfactory receptor 2B11	LOC100760102	100760102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

tubulin polyglutamylase TTLL6-like	LOC100760107	100760107	0.39	0.38	0.10	0.08	0.15	0.09	25.06	20.13	4.97	4.64	10.35	6.54
nucleophosmin pseudogene	LOC100760108	100760108	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
RNA-binding protein FUS pseudogene	LOC100760114	100760114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-crystallin D	LOC100760119	100760119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium- and chloride-dependent transporter XTRP3A	LOC100760123	100760123	0.00	0.04	0.00	0.06	0.02	0.02	0.76	2.75	0.00	4.64	2.07	0.93
lysozyme-like protein 1	LOC100760126	100760126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 1	LOC100760128	100760128	2.89	2.76	1.68	1.80	1.22	1.56	81.27	77.78	45.96	50.99	42.43	43.93
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100760132	100760132	0.92	0.95	0.89	0.66	0.59	0.68	13.67	21.05	14.91	11.59	13.45	7.48
vomeronasal type-2 receptor 116-like	LOC100760141	100760141	0.00	0.04	0.02	0.02	0.00	0.04	0.00	3.66	1.24	1.16	1.03	3.74
GDNF family receptor alpha-1	LOC100760143	100760143	0.55	0.63	0.56	0.65	0.76	0.65	34.18	30.20	26.08	32.45	33.12	35.52
olfactory receptor 51G2	LOC100760144	100760144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C21orf140	LOC100760147	100760147	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC100760150	LOC100760150	100760150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calreticulin-like	LOC100760153	100760153	0.83	0.86	0.47	0.46	0.57	0.67	50.89	52.16	34.78	28.97	34.15	43.93
tRNA (uracil(54)-C(5))-methyltransferase homolog pseudogene	LOC100760154	100760154	0.08	0.02	0.07	0.06	0.03	0.05	3.04	0.00	2.48	2.32	1.03	1.87
WD repeat-containing protein 49-like	LOC100760155	100760155	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
sterile alpha motif domain-containing protein 9-like	LOC100760157	100760157	0.46	0.38	0.34	0.35	0.41	0.32	3.80	8.24	2.48	5.79	7.24	7.48
N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase, isoform C-like	LOC100760161	100760161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100760164	100760164	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
ephrin-B2-like	LOC100760165	100760165	9.31	8.05	10.89	11.49	12.17	11.86	758.78	671.63	911.69	975.81	1036.02	1020.66
chromosome unknown open reading frame, human C3orf33	LOC100760167	100760167	13.68	13.48	11.58	12.73	13.14	12.36	364.58	356.86	311.76	338.40	342.58	328.07
DNA-dependent protein kinase catalytic subunit-like	LOC100760171	100760171	1.59	1.63	1.36	1.88	1.89	1.52	0.76	0.00	0.00	0.00	0.00	0.00
UBA-like domain-containing protein 1 pseudogene	LOC100760172	100760172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
glycosyltransferase 6 domain-containing protein 1-like	LOC100760173	100760173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease inhibitor A3N-like	LOC100760187	100760187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA (cytosine-5)-methyltransferase 3B-like	LOC100760192	100760192	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	2.48	2.32	3.10	0.93
olfactory receptor 1073	LOC100760194	100760194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100760197	100760197	57.49	64.77	54.83	45.12	52.27	38.06	207.35	228.76	150.29	126.32	144.90	69.17
olfactory receptor-like protein OLF3	LOC100760201	100760201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 2 pseudogene	LOC100760206	100760206	0.20	0.15	0.27	0.26	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100760207	100760207	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class II histocompatibility antigen, DO alpha chain	LOC100760208	100760208	0.10	0.04	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
gastric triacylglycerol lipase-like	LOC100760209	100760209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 5AK3	LOC100760210	100760210	0.00	0.04	0.06	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
aldehyde oxidase 4	LOC100760212	100760212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a-like	LOC100760216	100760216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

heat shock 70 kDa protein 1A	LOC100760218	100760218	0.23	0.23	0.12	0.11	0.02	0.11	15.19	13.73	6.21	6.95	1.03	6.54
olfactory receptor 6X1	LOC100760226	100760226	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase W	LOC100760228	100760228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760232	LOC100760232	100760232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin omega chain	LOC100760234	100760234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29	LOC100760235	100760235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D10-like	LOC100760236	100760236	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein LAP2-like	LOC100760237	100760237	0.82	0.82	0.72	0.80	0.81	0.69	25.06	26.54	23.60	17.38	16.56	21.50
uncharacterized LOC100760240	LOC100760240	100760240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5-like	LOC100760242	100760242	0.00	0.02	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
CMRF35-like molecule	LOC100760245	100760245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible double-stranded RNA-dependent protein kinase activator A pseudogene	LOC100760247	100760247	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2B1-like	LOC100760248	100760248	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YY1-associated factor 2	LOC100760251	100760251	28.39	30.36	29.13	28.07	32.63	33.90	1330.71	1378.96	1322.82	1255.11	1463.47	1544.07
olfactory receptor 51F2-like	LOC100760253	100760253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23 pseudogene	LOC100760254	100760254	0.20	0.37	0.17	0.16	0.14	0.39	1.52	2.75	1.24	1.16	1.03	2.80
olfactory receptor 2B11	LOC100760259	100760259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100760261	100760261	150.79	148.70	150.03	161.86	161.40	159.09	6996.88	7041.18	7019.03	7529.50	7599.90	7370.81

aphrodisin-like	LOC100760262	100760262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lupus La protein homolog pseudogene	LOC100760264	100760264	0.38	0.12	0.32	0.24	0.00	0.07	9.87	3.66	8.69	5.79	0.00	1.87
tripartite motif-containing protein 6 pseudogene	LOC100760265	100760265	0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
olfactory receptor 1D2	LOC100760267	100760267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1-like	LOC100760269	100760269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100760270	100760270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10C1-like	LOC100760272	100760272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3	LOC100760278	100760278	19.93	18.69	16.39	16.33	10.63	11.37	104.82	86.01	85.70	68.38	32.08	43.93
hyaluronidase PH-20-like	LOC100760289	100760289	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100760297	100760297	0.52	0.46	0.48	0.07	0.45	0.28	11.39	10.98	9.94	1.16	8.28	6.54
L-gulonolactone oxidase	LOC100760306	100760306	0.06	0.05	0.09	0.13	0.11	0.08	7.60	8.24	8.69	17.38	14.49	9.35
histone H2B type 1	LOC100760308	100760308	0.11	0.06	0.07	0.02	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00
schwannomin-interacting protein 1	LOC100760309	100760309	7.40	8.14	8.93	8.50	9.02	8.44	388.12	441.05	468.27	441.55	476.09	448.64
neuronal acetylcholine receptor subunit alpha-7	LOC100760319	100760319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-12	LOC100760323	100760323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11A1	LOC100760332	100760332	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
leucine-rich repeat and calponin homology domain-containing protein 1	LOC100760337	100760337	9.44	9.15	9.37	10.64	11.39	11.55	1156.02	1139.22	1135.27	1303.78	1365.15	1394.53
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100760338	100760338	0.04	0.00	0.00	0.06	0.00	0.02	0.76	0.00	0.00	1.16	0.00	0.00

60S ribosomal protein L27 pseudogene	LOC100760340	100760340	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
interferon-inducible GTPase 1-like	LOC100760341	100760341	0.03	0.00	0.00	0.00	0.04	0.00	0.76	0.00	0.00	0.00	1.03	0.00
dentin sialophosphoprotein-like	LOC100760342	100760342	0.01	0.03	0.01	0.01	0.03	0.02	2.28	2.75	1.24	1.16	3.10	1.87
prefoldin subunit 1 pseudogene	LOC100760343	100760343	0.09	0.29	0.07	0.13	0.36	0.16	1.52	4.58	1.24	3.48	6.21	2.80
PIH1 domain-containing protein 1 pseudogene	LOC100760347	100760347	0.05	0.00	0.09	0.08	0.00	0.00	0.76	0.92	1.24	2.32	0.00	0.00
serpin B6	LOC100760352	100760352	80.33	82.53	51.31	52.14	68.35	75.41	2470.02	2632.55	1586.14	1627.12	2087.57	2258.16
olfactory receptor 8B3-like	LOC100760355	100760355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13D1	LOC100760357	100760357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100760358	100760358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L19 pseudogene	LOC100760359	100760359	17.49	17.01	11.02	6.82	12.74	10.34	108.61	111.63	68.31	50.99	129.37	98.14
asparagine--tRNA ligase, cytoplasmic pseudogene	LOC100760362	100760362	19.14	18.64	18.11	19.31	19.90	18.55	751.94	725.62	699.29	718.53	733.81	674.83
TATA box-binding protein-like protein 2	LOC100760364	100760364	6.22	6.48	4.55	5.11	6.58	6.04	406.35	399.87	298.10	330.29	418.13	392.56
ribonucleoside-diphosphate reductase subunit M2 pseudogene	LOC100760365	100760365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145	LOC100760369	100760369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51E1	LOC100760374	100760374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family A member 3-like	LOC100760380	100760380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1 pseudogene	LOC100760384	100760384	0.02	0.08	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member A pseudogene	LOC100760391	100760391	0.11	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100760395	LOC100760395	100760395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23-like	LOC100760400	100760400	3.82	4.43	2.02	1.78	2.42	1.31	47.85	53.07	23.60	19.70	27.94	17.76
uncharacterized LOC100760401	LOC100760401	100760401	0.06	0.57	0.09	0.19	0.32	0.07	3.04	9.15	2.48	3.48	8.28	2.80
prolactin-8A9-like	LOC100760404	100760404	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L26-like	LOC100760405	100760405	94.22	85.37	90.04	78.52	84.96	85.41	580.29	527.97	547.76	403.30	455.39	435.56
gamma-crystallin E	LOC100760411	100760411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial	LOC100760414	100760414	0.26	0.22	0.15	0.19	0.11	0.22	21.27	19.22	16.15	13.91	8.28	17.76
ferritin light chain pseudogene	LOC100760418	100760418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase pseudogene	LOC100760419	100760419	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760420	LOC100760420	100760420	0.00	0.42	0.60	1.24	1.52	0.48	56.21	47.58	58.38	75.33	61.06	69.17
cytochrome b5 type B	LOC100760422	100760422	72.95	76.53	70.67	69.78	76.67	80.02	4026.32	4270.46	3869.10	3649.44	3938.12	4096.66
sphingolipid delta(4)-desaturase DES1-like	LOC100760423	100760423	8.16	8.09	7.12	6.40	7.79	8.34	31.14	30.20	21.12	15.07	16.56	16.82
39S ribosomal protein L12, mitochondrial-like	LOC100760430	100760430	0.12	0.00	0.00	0.10	0.00	0.00	4.56	0.92	0.00	3.48	1.03	0.00
probable rRNA-processing protein EBP2	LOC100760432	100760432	0.03	0.00	0.00	0.00	0.09	0.00	0.76	0.00	0.00	0.00	2.07	0.00
zinc finger protein 420-like	LOC100760433	100760433	2.43	2.17	2.68	2.58	2.94	2.55	141.27	131.76	158.99	156.45	168.70	151.42
olfactory receptor 51A7-like	LOC100760436	100760436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760441	LOC100760441	100760441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like protein 8B pseudogene	LOC100760444	100760444	0.07	0.09	0.00	0.11	0.10	0.00	1.52	1.83	0.00	1.16	2.07	0.93

60S ribosomal protein L35-like	LOC100760445	100760445	0.71	0.65	1.04	0.71	0.50	0.80	6.08	5.49	8.69	5.79	4.14	7.48
putative serine/threonine-protein	LOC100760452	100760452	2.79	2.44	5.44	5.85	7.23	6.88	296.22	278.17	467.02	502.97	578.56	582.30
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100760462	100760462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DDB1- and CUL4-associated factor 8 pseudogene	LOC100760463	100760463	0.27	0.16	0.13	0.13	0.07	0.03	18.23	15.56	9.94	6.95	4.14	3.74
40S ribosomal protein S16 pseudogene	LOC100760465	100760465	0.10	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100760466	100760466	0.06	0.16	0.11	0.10	0.00	0.00	0.76	1.83	1.24	1.16	1.03	0.00
60S ribosomal protein L23a-like	LOC100760472	100760472	8.03	9.16	8.13	3.77	6.95	3.82	34.94	33.86	32.29	13.91	26.91	14.95
keratin-associated protein 10-2-like	LOC100760473	100760473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor tyrosine-protein kinase erbB-4	LOC100760475	100760475	0.00	0.00	0.00	0.00	0.00	0.08	1.52	0.00	0.00	0.00	1.03	4.67
60S ribosomal protein L13a pseudogene	LOC100760483	100760483	2.06	1.64	1.57	1.65	1.16	0.70	24.31	18.30	18.63	15.07	12.42	8.41
transmembrane protein 189	LOC100760484	100760484	32.36	30.45	30.26	22.26	18.30	20.09	1010.95	970.85	948.95	703.46	577.52	636.51
60S ribosomal protein L3 pseudogene	LOC100760487	100760487	0.94	1.46	0.81	0.93	1.19	0.49	32.66	51.24	28.57	32.45	41.40	16.82
pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial-like	LOC100760488	100760488	0.08	0.03	0.00	0.04	0.04	0.05	3.04	4.58	0.00	6.95	2.07	7.48
olfactory receptor-like protein OLF3	LOC100760491	100760491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S13 pseudogene	LOC100760497	100760497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100760498	100760498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gastric triacylglycerol lipase-like	LOC100760500	100760500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5M11-like	LOC100760501	100760501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

calmodulin-like	LOC100760503	100760503	0.07	0.08	0.00	0.00	0.10	0.00	2.28	0.92	0.00	0.00	1.03	0.00
aldehyde oxidase 3	LOC100760504	100760504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell division cycle protein 123 homolog pseudogene	LOC100760508	100760508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L32 pseudogene	LOC100760511	100760511	0.52	0.24	0.00	0.24	0.14	0.32	8.35	1.83	2.48	1.16	1.03	2.80
6.8 kDa mitochondrial proteolipid	LOC100760515	100760515	13.42	14.39	9.17	11.73	13.31	10.44	378.25	311.11	322.94	305.95	360.18	437.43
ankyrin repeat family A protein 2-like	LOC100760519	100760519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 2	LOC100760523	100760523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMM domain-containing protein 9	LOC100760524	100760524	0.09	0.21	0.15	0.28	0.25	0.11	2.28	3.66	1.24	2.32	2.07	1.87
Ig lambda chain V-II region MGC	LOC100760526	100760526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29-like	LOC100760528	100760528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D10	LOC100760529	100760529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760530	LOC100760530	100760530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fructose-bisphosphate aldolase A pseudogene	LOC100760534	100760534	1.02	1.10	0.62	0.34	1.24	0.57	29.62	30.20	16.15	9.27	35.19	14.02
cytochrome b5 reductase 4	LOC100760537	100760537	26.10	26.16	12.59	13.83	14.07	13.89	1773.52	1824.58	868.22	932.93	970.82	940.28
CMRF35-like molecule 3	LOC100760538	100760538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AP-1 complex-associated regulatory protein pseudogene	LOC100760544	100760544	0.07	0.00	0.23	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.00
olfactory receptor 51F2-like	LOC100760545	100760545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD177 antigen-like	LOC100760551	100760551	0.17	0.19	0.04	0.02	0.12	0.08	1.52	0.00	0.00	1.16	1.03	1.87

nucleolar RNA helicase 2 pseudogene	LOC100760552	100760552	0.07	0.21	0.11	0.14	0.15	0.08	3.80	11.90	6.21	8.11	8.28	4.67
protein FAM47E-like	LOC100760554	100760554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100760555	100760555	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ornithine decarboxylase 2-like	LOC100760559	100760559	0.12	0.14	0.00	0.24	0.16	0.07	10.63	10.07	6.21	19.70	9.31	10.28
olfactory receptor 1361-like	LOC100760560	100760560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tRNA:m(4)X modification enzyme TRM13 homolog	LOC100760563	100760563	11.37	11.27	11.24	13.67	14.70	13.10	299.26	280.92	305.55	358.11	393.29	337.42
transmembrane protein 19	LOC100760567	100760567	18.62	18.86	16.84	18.01	21.01	21.03	1643.64	1673.60	1586.14	1687.39	1924.04	1902.05
geranylgeranyl transferase type-2 subunit beta-like	LOC100760579	100760579	0.00	0.00	0.00	0.06	0.10	0.04	0.00	0.92	0.00	3.48	4.14	2.80
60S ribosomal protein L21 pseudogene	LOC100760585	100760585	9.16	5.61	5.21	5.83	6.24	3.74	87.35	51.24	45.96	48.67	49.68	33.65
prefoldin subunit 2-like	LOC100760590	100760590	0.50	0.52	0.20	0.10	0.13	0.39	5.32	6.41	2.48	1.16	2.07	4.67
fragile X mental retardation 1 neighbor protein-like	LOC100760598	100760598	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
histone H2A type 1-like	LOC100760601	100760601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-alpha pseudogene	LOC100760605	100760605	1.35	1.62	1.17	0.83	0.96	0.70	22.79	27.45	19.87	13.91	12.42	10.28
peptidyl-prolyl cis-trans isomerase FKBP3 pseudogene	LOC100760608	100760608	0.49	0.55	0.09	0.00	0.19	0.27	13.67	10.98	6.21	2.32	7.24	13.09
bax inhibitor 1 pseudogene	LOC100760613	100760613	0.75	0.57	0.67	1.23	0.50	0.87	15.19	10.07	12.42	24.34	10.35	19.63
interferon alpha-12	LOC100760616	100760616	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf52	LOC100760617	100760617	0.17	0.41	0.00	0.16	0.00	0.04	9.87	11.90	0.00	5.79	2.07	2.80
murinoglobulin-1-like	LOC100760619	100760619	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

high mobility group protein B1 pseudogene	LOC100760625	100760625	0.45	0.63	0.29	0.21	0.33	0.42	30.38	28.37	16.15	22.02	30.01	28.97
cell division control protein 42 homolog pseudogene	LOC100760628	100760628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 42	LOC100760630	100760630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuron-specific protein family member 2	LOC100760634	100760634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100760635	100760635	0.00	0.01	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760636	LOC100760636	100760636	0.00	0.00	0.07	0.06	0.00	0.03	0.76	0.00	2.48	2.32	2.07	0.93
olfactory receptor 4X2	LOC100760639	100760639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC100760640	100760640	0.82	0.75	0.69	0.23	0.19	0.27	5.32	3.66	2.48	1.16	1.03	1.87
chromodomain Y-like protein pseudogene	LOC100760645	100760645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100760648	100760648	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protein NipSnap homolog 3A	LOC100760650	100760650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100760651	100760651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100760652	100760652	0.00	0.00	0.00	0.00	0.08	0.30	0.00	0.00	0.00	1.16	4.14	8.41
hypothetical protein	LOC100760653	100760653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
calcineurin B homologous protein 1 pseudogene	LOC100760654	100760654	0.09	0.04	0.00	0.09	0.12	0.04	0.76	0.00	0.00	1.16	1.03	0.00
40S ribosomal protein S13 pseudogene	LOC100760657	100760657	4.02	2.56	2.56	2.10	3.68	3.65	21.27	8.24	7.45	9.27	18.63	14.95
ficolin-1	LOC100760658	100760658	0.03	0.00	0.00	0.00	0.04	0.04	1.52	0.00	1.24	0.00	1.03	0.93
olfactory receptor 4D9-like	LOC100760660	100760660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

acidic mammalian chitinase	LOC100760661	100760661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D3	LOC100760666	100760666	176.63	175.22	181.86	195.00	213.62	203.56	7266.51	7366.93	7631.38	8132.14	8864.66	8424.18
olfactory receptor 51D1	LOC100760668	100760668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100760672	100760672	0.12	0.00	0.07	0.00	0.00	0.01	3.04	1.83	1.24	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf47	LOC100760681	100760681	29.48	32.09	35.10	27.88	21.71	19.67	720.04	771.37	804.87	642.04	504.04	445.84
multidrug resistance protein 1 pseudogene	LOC100760682	100760682	16.49	14.91	11.26	16.08	22.48	18.08	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor 1 pseudogene	LOC100760687	100760687	26.00	25.90	22.71	22.23	21.51	22.10	296.98	277.26	249.66	236.42	209.07	232.73
60S acidic ribosomal protein P0 pseudogene	LOC100760688	100760688	107.67	115.50	112.00	87.27	59.76	58.78	822.58	1075.16	1084.34	902.80	548.54	515.94
histone H4	LOC100760690	100760690	0.09	0.02	0.14	0.19	0.00	0.00	0.00	0.00	0.00	1.16	2.07	0.00
hepatoma-derived growth factor-like protein 1	LOC100760697	100760697	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-7A1-like	LOC100760700	100760700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger HIT domain-containing protein 1	LOC100760701	100760701	4.46	3.63	3.34	1.32	1.35	1.16	42.53	21.05	24.84	12.75	7.24	8.41
40S ribosomal protein S12-like	LOC100760717	100760717	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.03	0.00
septin-7 pseudogene	LOC100760721	100760721	3.55	3.09	2.88	2.70	2.89	2.14	164.82	144.58	125.45	124.00	124.20	114.03
uncharacterized LOC100760722	LOC100760722	100760722	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
guanylate cyclase 2G-like	LOC100760728	100760728	0.00	0.05	0.04	0.02	0.09	0.09	0.00	5.49	2.48	2.32	7.24	8.41
zinc finger protein 665-like	LOC100760730	100760730	1.69	1.92	2.53	2.87	3.09	2.99	239.25	264.44	356.48	402.15	438.83	421.54
olfactory receptor 51A4	LOC100760733	100760733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2-oxoisovalerate dehydrogenase subunit beta, mitochondrial pseudogene	LOC100760734	100760734	0.07	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760739	LOC100760739	100760739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100760741	100760741	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.16	0.00	0.00
ADP/ATP translocase 2 pseudogene	LOC100760743	100760743	0.26	0.52	0.80	0.13	0.47	0.21	4.56	9.15	13.66	2.32	8.28	3.74
cysteine-rich PDZ-binding protein pseudogene	LOC100760745	100760745	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.03	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100760752	100760752	2.59	3.51	1.61	1.79	2.42	1.68	20.51	28.37	12.42	11.59	19.66	13.09
olfactory receptor 6F1-like	LOC100760753	100760753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein light chain 1, cytoplasmic-like	LOC100760754	100760754	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 4	LOC100760755	100760755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleophosmin pseudogene	LOC100760757	100760757	5.58	4.69	3.83	2.51	3.19	3.66	23.55	23.79	18.63	12.75	14.49	16.82
forkhead box protein I2-like	LOC100760759	100760759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microtubule-associated protein 6	LOC100760760	100760760	7.44	6.70	4.21	1.29	0.67	0.85	377.49	338.56	214.88	66.06	33.12	44.86
chromosome unknown open reading frame, human C2orf54	LOC100760762	100760762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pleckstrin homology domain-containing family F member 2	LOC100760765	100760765	3.42	8.52	6.10	5.46	5.62	4.99	37.22	50.33	36.02	40.56	34.15	35.52
keratin-associated protein 10-2-like	LOC100760771	100760771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC-esterase domain-containing protein 1B-like	LOC100760773	100760773	0.15	0.03	0.04	0.00	0.00	0.00	6.08	0.92	1.24	0.00	1.03	0.93
chromosome unknown open reading frame, human C20orf112	LOC100760781	100760781	0.05	0.01	0.02	0.00	0.03	0.00	4.56	1.83	2.48	3.48	3.10	0.93
GRB2-associated-binding protein 2 pseudogene	LOC100760783	100760783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

dachshund homolog 1	LOC100760786	100760786	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
protein FAM115C-like	LOC100760787	100760787	0.07	0.06	0.02	0.00	0.00	0.00	5.32	4.58	1.24	0.00	0.00	0.00
four and a half LIM domains protein 1	LOC100760792	100760792	0.40	0.40	0.41	0.51	0.34	0.63	21.27	19.22	18.63	25.50	16.56	29.91
polypyrimidine tract-binding protein 3 pseudogene	LOC100760793	100760793	0.68	0.88	0.38	0.49	0.61	0.36	50.13	38.43	19.87	19.70	23.80	14.02
class II histocompatibility antigen, M alpha chain	LOC100760794	100760794	2.90	2.94	2.07	2.00	1.17	1.40	129.12	127.19	88.19	84.60	51.75	56.08
olfactory receptor 1030	LOC100760796	100760796	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-trimethylaminobutyraldehyde dehydrogenase pseudogene	LOC100760798	100760798	4.25	3.92	2.82	2.72	3.56	3.56	202.04	193.99	141.60	125.16	167.67	171.04
chromosome unknown open reading frame, human C9orf117	LOC100760800	100760800	0.20	0.13	0.26	0.08	0.02	0.09	100.26	97.91	144.08	124.00	91.08	100.94
cytochrome b-245 heavy chain	LOC100760802	100760802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29-like	LOC100760819	100760819	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
macrophage-expressed gene 1 protein-like	LOC100760820	100760820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin-3-like	LOC100760821	100760821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein T2	LOC100760823	100760823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit gamma, mitochondrial	LOC100760824	100760824	164.03	166.52	151.66	153.85	151.19	155.61	5249.18	5389.55	4849.11	4855.87	4860.30	4872.43
nucleophosmin pseudogene	LOC100760828	100760828	2.19	1.83	1.58	1.86	1.94	1.91	94.18	66.80	65.83	91.55	93.15	109.36
CMRF35-like molecule	LOC100760829	100760829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosylhomocysteinase pseudogene	LOC100760831	100760831	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
olfactory receptor 51F2-like	LOC100760836	100760836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100760837	LOC100760837	100760837	1.07	1.16	1.62	1.73	1.55	2.26	67.60	86.01	94.40	115.89	104.53	148.61
uncharacterized LOC100760839	LOC100760839	100760839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52N2	LOC100760842	100760842	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2B11	LOC100760843	100760843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aspartate--tRNA ligase, cytoplasmic pseudogene	LOC100760845	100760845	3.78	4.34	3.74	3.42	3.92	3.12	34.94	31.11	37.26	33.61	28.98	21.50
olfactory receptor 1361	LOC100760851	100760851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100760852	100760852	0.05	0.00	0.04	0.04	0.11	0.03	2.28	1.83	1.24	2.32	5.17	0.93
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase-like protein homolog	LOC100760854	100760854	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
olfactory receptor 4A15-like	LOC100760855	100760855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2H2-like	LOC100760861	100760861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene Mas	LOC100760876	100760876	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100760888	LOC100760888	100760888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinases regulatory subunit 1	LOC100760892	100760892	2.19	2.54	2.21	2.03	2.71	1.47	2.28	2.75	1.24	2.32	4.14	0.93
T-complex protein 1 subunit beta pseudogene	LOC100760901	100760901	0.07	0.00	0.00	0.00	0.00	0.05	1.52	0.00	0.00	0.00	0.00	0.93
interferon alpha-9-like	LOC100760906	100760906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf30	LOC100760908	100760908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-1-inhibitor 3-like	LOC100760909	100760909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3 pseudogene	LOC100760916	100760916	2.56	3.26	1.97	1.94	2.51	1.00	46.33	59.48	34.78	33.61	43.47	17.76

ubiquitin carboxyl-terminal hydrolase isozyme L5 pseudogene	LOC100760919	100760919	0.16	0.53	0.36	0.19	0.28	0.20	3.04	9.15	4.97	3.48	5.17	3.74
60S ribosomal protein L29	LOC100760923	100760923	806.48	818.29	809.08	504.16	247.09	284.84	7045.49	6812.42	6860.05	4259.03	2030.64	2525.48
arylacetamide deacetylase-like 4	LOC100760924	100760924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100760925	100760925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4B1	LOC100760928	100760928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1C chain-like	LOC100760929	100760929	2.18	2.09	2.30	1.46	1.98	1.09	39.50	37.52	44.72	31.29	37.26	20.56
GRB2-associated-binding protein 2 pseudogene	LOC100760936	100760936	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
protein NipSnap homolog 3B	LOC100760938	100760938	13.68	14.13	9.18	10.75	10.34	10.76	525.60	546.28	356.48	404.46	399.50	414.99
olfactory receptor 5W2-like	LOC100760939	100760939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor subfamily B member 1B allele C	LOC100760941	100760941	0.00	0.05	0.07	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
PI-PLC X domain-containing protein 1-like	LOC100760948	100760948	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	1.87
chitinase-like protein 4	LOC100760950	100760950	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S27-like	LOC100760954	100760954	0.21	0.13	0.18	0.20	0.22	0.33	20.51	10.07	13.66	17.38	16.56	24.30
chromosome unknown open reading frame, human C2orf44	LOC100760958	100760958	7.15	6.72	6.98	8.90	8.61	8.44	572.69	536.21	552.73	705.78	681.02	673.90
60S ribosomal protein L7a pseudogene	LOC100760962	100760962	0.06	0.00	0.00	0.13	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
RNA-binding protein PNO1 pseudogene	LOC100760969	100760969	0.19	0.17	0.45	0.21	0.38	0.21	2.28	1.83	6.21	2.32	4.14	2.80
protein regulator of cytokinesis 1 pseudogene	LOC100760973	100760973	0.10	0.15	0.03	0.10	0.02	0.02	4.56	7.32	1.24	4.64	1.03	0.93
proteasome subunit beta type-3 pseudogene	LOC100760976	100760976	0.05	0.12	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00

60S ribosomal protein L23-like	LOC100760980	100760980	1.10	2.89	0.37	0.55	1.50	0.99	6.84	18.30	2.48	3.48	9.31	5.61
chromosome unknown open reading frame, human C8orf37	LOC100760984	100760984	4.95	4.64	4.08	4.13	5.05	5.27	183.81	172.94	132.90	157.61	189.40	182.26
SOSS complex subunit B2 pseudogene	LOC100760985	100760985	0.06	0.00	0.10	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
40S ribosomal protein S15 pseudogene	LOC100760988	100760988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-2A1-like	LOC100760990	100760990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S4, X isoform	LOC100760991	100760991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable G-protein coupled receptor 141	LOC100760993	100760993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon lambda-2	LOC100760996	100760996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100761000	100761000	6.52	7.18	6.47	6.01	5.18	4.50	34.94	36.60	39.75	30.13	17.59	24.30
T-complex protein 1 subunit delta pseudogene	LOC100761006	100761006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 121-like	LOC100761009	100761009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18a pseudogene	LOC100761010	100761010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RAD18-like	LOC100761012	100761012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial carrier homolog 2 pseudogene	LOC100761021	100761021	3.02	3.49	4.18	3.19	3.61	3.29	60.00	71.37	81.98	60.26	71.41	68.23
chromosome unknown open reading frame, human C15orf52	LOC100761022	100761022	3.49	3.42	2.20	2.38	1.94	2.26	295.46	307.45	202.46	199.33	169.74	199.08
olfactory receptor 51L1	LOC100761024	100761024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S5-like	LOC100761031	100761031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
interferon-inducible GTPase 1-like	LOC100761033	100761033	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

insulin-induced gene 2 protein-like	LOC100761035	100761035	0.85	0.90	1.05	0.48	0.66	0.95	4.56	3.66	6.21	0.00	3.10	2.80
serpin B6-like	LOC100761037	100761037	0.16	0.12	0.05	0.15	0.04	0.08	19.75	20.13	7.45	11.59	8.28	3.74
eukaryotic translation initiation factor 1A, X-chromosomal-like	LOC100761040	100761040	1.03	0.38	0.00	1.06	1.19	0.83	6.08	6.41	1.24	3.48	7.24	2.80
tudor and KH domain-containing protein pseudogene	LOC100761043	100761043	0.87	0.26	1.84	1.86	2.52	1.85	13.67	1.83	34.78	34.77	47.61	37.39
olfactory receptor 14C36-like	LOC100761044	100761044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nogo-B receptor	LOC100761045	100761045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 4	LOC100761046	100761046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2'-5'-oligoadenylate synthase 1A-like	LOC100761048	100761048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2-like	LOC100761051	100761051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf27	LOC100761052	100761052	36.22	37.09	41.47	48.43	48.12	48.21	1061.08	1130.98	1227.18	1419.68	1400.34	1405.74
replication protein A 70 kDa DNA-binding subunit-like	LOC100761053	100761053	49.92	56.10	70.31	72.70	85.06	82.66	0.00	0.00	0.00	0.00	1.03	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100761055	100761055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-binding protein inhibitor ID-2 pseudogene	LOC100761056	100761056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S18-like	LOC100761059	100761059	30.39	28.49	23.85	15.65	5.12	8.03	202.04	181.18	145.32	99.67	35.19	55.15
IQ and AAA domain-containing protein 1-like	LOC100761064	100761064	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf43	LOC100761069	100761069	55.81	51.02	45.39	39.30	37.12	40.43	1595.03	1479.61	1302.95	1126.47	1041.20	1133.75
putative germ cell-less protein-like 1-like	LOC100761074	100761074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor-like protein OLF3	LOC100761075	100761075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NTF2-related export protein 2-like	LOC100761079	100761079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100761081	100761081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
class II histocompatibility antigen, M beta 1 chain	LOC100761082	100761082	1.02	1.04	0.52	0.43	0.27	0.30	41.02	40.26	22.36	17.38	10.35	12.15
gastric triacylglycerol lipase	LOC100761083	100761083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1030-like	LOC100761084	100761084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA primase large subunit pseudogene	LOC100761095	100761095	0.09	0.05	0.08	0.18	0.13	0.12	3.04	1.83	3.73	6.95	5.17	4.67
isocitrate dehydrogenase [NADP] cytoplasmic-like	LOC100761102	100761102	0.12	0.00	0.08	0.00	0.07	0.06	6.84	3.66	7.45	2.32	3.10	2.80
immunoglobulin omega chain	LOC100761106	100761106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29	LOC100761108	100761108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5A1	LOC100761109	100761109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S25 pseudogene	LOC100761110	100761110	0.26	0.16	0.00	0.22	0.56	0.00	0.76	0.92	0.00	1.16	3.10	0.00
PR domain zinc finger protein 16-like	LOC100761112	100761112	1.34	1.24	1.57	1.26	0.44	0.80	14.43	14.64	16.15	10.43	4.14	7.48
N-acylneuraminate-9-phosphatase-like	LOC100761114	100761114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3-like	LOC100761118	100761118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100761126	100761126	4.24	4.02	5.27	5.57	6.62	4.91	360.02	339.48	443.43	456.61	542.33	410.32
ubiquitin carboxyl-terminal hydrolase 17-like protein 6	LOC100761132	100761132	0.07	0.06	0.03	0.03	0.04	0.05	3.04	1.83	1.24	1.16	2.07	2.80
zinc finger protein 420-like	LOC100761135	100761135	0.49	0.26	0.50	0.25	1.09	1.00	23.55	11.90	21.12	16.22	60.03	47.67
	LOC100761140	100761140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase-like protein homolog	LOC100761144	100761144	0.02	0.02	0.03	0.03	0.03	0.00	0.76	0.92	2.48	2.32	1.03	0.00
hemoglobin subunit alpha pseudogene	LOC100761145	100761145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription initiation factor TFIID subunit 7-like	LOC100761147	100761147	0.08	0.03	0.00	0.00	0.11	0.03	2.28	0.92	0.00	0.00	3.10	1.87
ran guanine nucleotide release factor pseudogene	LOC100761149	100761149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC100761158	100761158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100761160	100761160	76.17	75.80	91.42	86.65	79.73	96.32	1780.36	1847.45	2356.24	2235.56	2043.06	2446.97
zinc finger protein 431-like	LOC100761161	100761161	0.97	0.88	0.86	1.19	1.26	1.25	141.27	130.85	139.11	178.47	201.82	186.93
chromosome unknown open reading frame, human C20orf195	LOC100761165	100761165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sentrin-specific protease 2 pseudogene	LOC100761167	100761167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S28 pseudogene	LOC100761171	100761171	1.91	1.74	0.82	1.24	1.38	0.32	6.84	5.49	2.48	4.64	6.21	1.87
60S ribosomal protein L8 pseudogene	LOC100761175	100761175	18.97	18.84	17.84	12.25	15.91	13.08	273.43	277.26	265.81	169.20	231.84	186.93
olfactory receptor 4P4-like	LOC100761177	100761177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.1-like	LOC100761179	100761179	0.00	0.01	0.03	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7A-related protein, mitochondrial pseudogene	LOC100761180	100761180	0.19	0.11	0.00	0.00	0.00	0.25	1.52	1.83	1.24	0.00	0.00	1.87
ribose-phosphate pyrophosphokinase 1-like	LOC100761185	100761185	0.16	0.22	0.11	0.10	0.16	0.04	3.04	4.58	2.48	2.32	3.10	0.93
LIM domain-containing protein ajuba pseudogene	LOC100761189	100761189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Krueppel-like factor 10 pseudogene	LOC100761192	100761192	0.18	0.00	0.04	0.00	0.06	0.00	9.11	1.83	1.24	2.32	2.07	0.93
pseudouridine-5'-monophosphatase-like	LOC100761202	100761202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

putative zinc finger protein 724	LOC100761204	100761204	3.52	3.29	3.47	3.76	3.19	3.10	466.36	434.64	459.57	499.49	418.13	406.58
cytochrome c oxidase subunit 4 isoform 1, mitochondrial pseudogene	LOC100761210	100761210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52E1-like	LOC100761211	100761211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
egl nine homolog 3 pseudogene	LOC100761212	100761212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100761213	100761213	0.03	0.00	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	1.03	0.00
signal peptidase complex subunit 2 pseudogene	LOC100761214	100761214	0.41	0.18	0.17	0.72	0.14	0.06	8.35	5.49	4.97	10.43	4.14	0.93
olfactory receptor 4B1-like	LOC100761216	100761216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13A1-like	LOC100761217	100761217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquilin-3	LOC100761223	100761223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 1020-like	LOC100761227	100761227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stathmin domain-containing protein 1-like	LOC100761228	100761228	0.08	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100761236	100761236	0.27	0.36	0.44	0.38	0.20	0.27	3.80	3.66	6.21	2.32	2.07	1.87
odorant-binding protein 2a-like	LOC100761241	100761241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52I2	LOC100761243	100761243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger HIT domain-containing protein 3 pseudogene	LOC100761246	100761246	3.36	4.16	1.66	1.14	1.60	1.27	78.99	82.35	37.26	23.18	24.84	19.63
protein phosphatase 1 regulatory subunit 26-like	LOC100761250	100761250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf54	LOC100761253	100761253	0.05	0.06	0.00	0.08	0.00	0.00	2.28	3.66	1.24	1.16	4.14	1.87
uncharacterized LOC100761255	LOC100761255	100761255	63.86	52.04	53.39	40.27	66.45	77.31	142.03	107.97	122.97	93.87	141.79	142.07

probable ATP-dependent RNA helicase DDX5	LOC100761256	100761256	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
proto-oncogene FRAT1-like	LOC100761257	100761257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100761261	100761261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member A pseudogene	LOC100761267	100761267	0.09	0.00	0.00	0.00	0.06	0.00	1.52	0.00	0.00	0.00	1.03	0.00
histone H2B type 1	LOC100761268	100761268	1.93	2.19	1.47	1.04	0.49	0.94	12.91	14.64	11.18	8.11	4.14	8.41
amelogenin, X isoform	LOC100761271	100761271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1019-like	LOC100761273	100761273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit beta type-6-like	LOC100761275	100761275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100761277	100761277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-2C2-like	LOC100761279	100761279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein TSSC1-like	LOC100761280	100761280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerases I and III subunit RPAC2-like	LOC100761281	100761281	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
L-lactate dehydrogenase A chain pseudogene	LOC100761286	100761286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-adrenergic receptor kinase 2	LOC100761290	100761290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S27-like pseudogene	LOC100761291	100761291	4.79	5.13	5.67	5.06	7.01	1.74	15.19	18.30	12.42	12.75	14.49	10.28
40S ribosomal protein S6-like	LOC100761293	100761293	0.00	0.06	0.08	0.00	0.06	0.00	0.00	0.92	0.00	0.00	1.03	0.00
zinc finger protein 1 homolog pseudogene	LOC100761296	100761296	0.50	0.40	0.57	0.68	0.43	0.53	13.67	9.15	14.91	17.38	10.35	14.02
ribosome biogenesis protein NSA2 homolog	LOC100761299	100761299	0.91	0.48	0.11	0.47	0.24	0.38	21.27	10.98	2.48	11.59	6.21	11.22

carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100761302	100761302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selenoprotein K pseudogene	LOC100761305	100761305	0.22	0.26	0.00	0.00	0.00	0.29	0.76	0.92	0.00	0.00	0.00	0.93
zinc finger protein 501-like	LOC100761311	100761311	0.86	0.73	0.88	0.73	1.19	1.16	52.41	47.58	52.17	49.83	76.59	69.17
poly(A) polymerase alpha pseudogene	LOC100761312	100761312	0.94	0.82	0.61	0.33	0.74	0.42	68.36	67.71	44.72	39.40	60.03	59.82
olfactory receptor 52E2	LOC100761314	100761314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 26-1-like	LOC100761318	100761318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100761320	100761320	0.03	0.00	0.08	0.02	0.26	0.06	0.76	0.00	0.00	0.00	4.14	0.93
E3 ubiquitin-protein ligase TRIM39-like	LOC100761321	100761321	0.97	0.83	1.10	0.97	1.17	0.95	2.28	0.92	3.73	3.48	3.10	6.54
hypothetical protein	LOC100761322	100761322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1	LOC100761326	100761326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
zinc finger protein 805-like	LOC100761328	100761328	9.53	8.82	8.36	7.48	6.79	7.06	392.68	364.18	363.93	309.43	277.38	292.55
olfactory receptor 8S1	LOC100761332	100761332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 43-like	LOC100761338	100761338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase pseudogene	LOC100761344	100761344	0.02	0.10	0.00	0.00	0.09	0.04	0.00	1.83	0.00	0.00	2.07	0.93
uncharacterized LOC100761345	LOC100761345	100761345	10.08	12.28	5.66	5.57	4.28	3.76	0.76	0.92	0.00	1.16	2.07	3.74
olfactory receptor 5B3-like	LOC100761347	100761347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 24-like	LOC100761350	100761350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf76	LOC100761351	100761351	3.10	2.39	2.25	2.64	3.08	2.39	56.21	51.24	33.54	42.88	42.43	42.06

ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100761366	100761366	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor-like protein OLF3	LOC100761367	100761367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
grpE protein homolog 2, mitochondrial	LOC100761370	100761370	13.63	14.49	13.53	13.23	12.88	12.26	75.95	86.01	80.74	86.92	63.13	65.43
olfactory receptor 4C15	LOC100761372	100761372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rano class II histocompatibility antigen, A beta chain-like	LOC100761373	100761373	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 1030	LOC100761375	100761375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F15-like	LOC100761376	100761376	0.00	0.00	0.00	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human CXorf27	LOC100761382	100761382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-1-antitrypsin	LOC100761387	100761387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8D4	LOC100761391	100761391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100761394	100761394	1.39	1.42	1.63	1.21	1.05	0.45	24.31	23.79	24.84	19.70	16.56	10.28
BTB/POZ domain-containing protein 10 pseudogene	LOC100761395	100761395	0.05	0.03	0.04	0.07	0.08	0.12	1.52	0.92	1.24	2.32	2.07	3.74
immunoglobulin omega chain-like	LOC100761398	100761398	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyrethroid hydrolase Ces2e-like	LOC100761399	100761399	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor GPCRLTM7	LOC100761400	100761400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100761401	100761401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 pseudogene	LOC100761403	100761403	0.08	0.10	0.00	0.00	0.23	0.00	0.76	2.75	1.24	1.16	5.17	0.00
C-type lectin domain family 2 member E-like	LOC100761404	100761404	0.28	0.35	0.29	0.34	0.66	0.79	15.95	20.13	16.15	19.70	41.40	44.86

olfactory receptor 143-like	LOC100761408	100761408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf57	LOC100761409	100761409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCHC domain-containing protein 10 pseudogene	LOC100761412	100761412	1.23	0.56	0.51	0.49	0.96	0.58	11.39	6.41	6.21	6.95	10.35	6.54
olfactory receptor 12-like	LOC100761417	100761417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disks large homolog 5-like	LOC100761422	100761422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361-like	LOC100761431	100761431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase 6-like	LOC100761433	100761433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sphingomyelin phosphodiesterase 3	LOC100761434	100761434	0.93	0.93	1.08	1.14	1.06	1.08	94.18	94.25	109.30	118.21	109.71	112.16
olfactory receptor 2Z1	LOC100761437	100761437	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein SA-like	LOC100761442	100761442	0.00	0.00	0.06	0.06	0.05	0.09	0.76	0.00	1.24	1.16	1.03	3.74
E3 ubiquitin-protein ligase RNF168 pseudogene	LOC100761443	100761443	0.01	0.01	0.00	0.00	0.00	0.05	0.00	0.00	0.00	1.16	0.00	2.80
pleckstrin homology-like domain family A member 1	LOC100761451	100761451	61.97	53.20	36.74	33.89	46.90	43.27	836.25	725.62	481.93	433.44	593.05	560.80
acyl-coenzyme A thioesterase 8	LOC100761464	100761464	32.65	29.56	28.03	20.59	15.71	17.13	1026.90	953.46	894.30	673.33	544.40	580.43
cytochrome c oxidase assembly factor 3 homolog, mitochondrial	LOC100761465	100761465	128.49	122.60	84.86	75.67	65.34	70.15	2309.00	2208.89	1526.52	1353.62	1181.95	1254.33
olfactory receptor 4P4-like	LOC100761468	100761468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100761478	100761478	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoglycerate mutase 1 pseudogene	LOC100761479	100761479	0.00	0.00	0.00	0.00	0.00	0.00	5.32	4.58	2.48	0.00	0.00	0.93
methylcytosine dioxygenase TET2-like	LOC100761483	100761483	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

programmed cell death protein 5 pseudogene	LOC100761487	100761487	9.50	11.52	7.55	6.16	4.08	4.45	47.09	56.73	37.26	24.34	19.66	23.37
DNA-binding protein inhibitor ID-2 pseudogene	LOC100761488	100761488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L21 pseudogene	LOC100761493	100761493	12.52	10.92	10.17	7.74	8.27	8.15	100.26	78.69	75.77	55.63	60.03	66.36
keratin-associated protein 16-1	LOC100761497	100761497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-tubulin complex component 4 pseudogene	LOC100761499	100761499	0.29	0.47	0.27	0.34	0.36	0.42	30.38	37.52	26.08	23.18	22.77	31.78
olfactory receptor 52J3-like	LOC100761501	100761501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100761502	100761502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 142	LOC100761506	100761506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13G1	LOC100761507	100761507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
deoxycytidine kinase pseudogene	LOC100761509	100761509	0.04	0.00	0.00	0.00	0.00	0.05	0.76	0.00	0.00	0.00	0.00	1.87
olfactory receptor 52H1-like	LOC100761513	100761513	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B18	LOC100761514	100761514	0.03	0.00	0.00	0.00	0.00	0.04	0.76	0.00	0.00	1.16	0.00	1.87
olfactory receptor 5L2-like	LOC100761517	100761517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor subfamily B member 1A	LOC100761519	100761519	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100761526	100761526	0.08	0.28	0.00	0.00	0.02	0.10	1.52	1.83	0.00	0.00	0.00	0.93
60S ribosomal protein L37 pseudogene	LOC100761527	100761527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 5-like	LOC100761528	100761528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycosyltransferase 6 domain-containing protein 1-like	LOC100761532	100761532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

putative olfactory receptor 51H1	LOC100761534	100761534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15-like	LOC100761537	100761537	1.63	2.43	2.19	1.09	1.88	1.35	47.85	74.12	68.31	32.45	56.92	40.19
actin-related protein 2 pseudogene	LOC100761543	100761543	0.03	0.00	0.10	0.00	0.06	0.08	0.76	0.00	2.48	0.00	1.03	1.87
GRB2-associated-binding protein 2-like	LOC100761547	100761547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GSK-3-binding protein FRAT2-like	LOC100761548	100761548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone deacetylase 1-like	LOC100761556	100761556	0.78	1.00	0.82	0.70	0.84	0.61	28.86	37.52	29.81	22.02	31.05	18.69
histone H3.1	LOC100761562	100761562	0.09	0.12	0.00	0.00	0.02	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger protein 73-like	LOC100761566	100761566	1.92	1.68	1.99	2.55	2.99	2.82	236.98	209.54	248.42	309.43	372.60	350.50
non-POU domain-containing octamer-binding protein pseudogene	LOC100761570	100761570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100761572	LOC100761572	100761572	10.74	11.37	13.17	15.32	17.90	16.57	572.69	597.52	706.75	812.40	911.82	852.42
60S ribosomal protein L6 pseudogene	LOC100761573	100761573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcriptional adapter 3 pseudogene	LOC100761575	100761575	0.17	0.05	0.10	0.08	0.08	0.09	5.32	1.83	3.73	2.32	3.10	1.87
retinol dehydrogenase 7-like	LOC100761577	100761577	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras-related protein Rab-1A pseudogene	LOC100761579	100761579	0.88	1.02	1.31	0.60	0.38	0.65	10.63	12.81	16.15	9.27	9.31	7.48
malate dehydrogenase, mitochondrial pseudogene	LOC100761581	100761581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein KIAA1671	LOC100761583	100761583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-C chemokine receptor type 1	LOC100761586	100761586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small conductance calcium-activated potassium channel protein 2	LOC100761590	100761590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C11orf24	LOC100761593	100761593	51.98	50.44	91.99	90.55	74.83	77.96	2658.39	2614.25	4790.73	4682.04	3916.39	4098.53
transmembrane protein 128 pseudogene	LOC100761597	100761597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase-coupling factor 6, mitochondrial-like	LOC100761601	100761601	0.07	0.33	0.00	0.22	0.19	0.26	11.39	10.98	12.42	10.43	19.66	20.56
protein slowmo homolog 2 pseudogene	LOC100761606	100761606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline-rich protein 23-like	LOC100761608	100761608	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1-like	LOC100761609	100761609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100761610	100761610	1.20	0.62	0.71	0.75	0.84	0.22	17.47	8.24	18.63	6.95	10.35	3.74
E3 ubiquitin-protein ligase TRIM39-like	LOC100761611	100761611	3.22	3.10	4.19	4.43	4.19	4.06	94.18	86.01	121.72	119.37	121.09	114.96
Ig heavy chain Mem5-like	LOC100761614	100761614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 29-like	LOC100761617	100761617	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100761618	LOC100761618	100761618	0.89	1.17	0.96	1.18	1.12	1.60	56.97	62.22	70.80	74.17	75.55	86.92
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100761621	100761621	6.41	6.70	5.91	3.41	3.88	3.15	50.89	50.33	52.17	26.66	32.08	23.37
inhibitor of carbonic anhydrase	LOC100761626	100761626	0.03	0.00	0.02	0.02	0.00	0.00	2.28	0.00	1.24	1.16	0.00	0.00
zinc finger protein 120-like	LOC100761630	100761630	0.01	0.00	0.00	0.06	0.03	0.02	0.00	0.00	0.00	2.32	0.00	0.93
protein crumbs homolog 3 pseudogene	LOC100761635	100761635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-alpha 1 pseudogene	LOC100761640	100761640	86.81	107.07	94.05	71.35	98.82	67.40	2488.25	3052.55	2636.95	2037.38	2753.06	1895.51
N-alpha-acetyltransferase 10-like	LOC100761642	100761642	0.07	0.26	0.12	0.06	0.05	0.13	3.80	6.41	2.48	5.79	2.07	3.74
ADP/ATP translocase 2-like	LOC100761654	100761654	98.84	94.43	83.35	48.39	24.87	29.78	2422.93	2350.72	2061.86	1176.30	594.08	695.39

olfactory receptor 13	LOC100761658	100761658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf34	LOC100761661	100761661	2.79	3.09	3.61	4.44	4.90	4.99	205.84	237.91	264.56	337.25	373.63	362.65
olfactory receptor 4C15-like	LOC100761665	100761665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipase member N	LOC100761667	100761667	0.05	0.03	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	1.03	2.80
olfactory receptor 5M8	LOC100761668	100761668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain-containing protein 26-like	LOC100761669	100761669	0.00	0.00	0.00	0.00	0.01	0.02	0.76	0.00	2.48	1.16	3.10	8.41
ferritin heavy chain pseudogene	LOC100761670	100761670	0.93	1.25	0.97	0.57	0.97	0.37	18.99	25.62	19.87	11.59	22.77	7.48
U2 small nuclear ribonucleoprotein B" pseudogene	LOC100761674	100761674	0.10	0.26	0.36	0.15	0.23	0.12	1.52	3.66	4.97	2.32	3.10	1.87
signal peptidase complex subunit 2-like	LOC100761677	100761677	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf80	LOC100761684	100761684	0.07	0.10	0.08	0.03	0.16	0.18	5.32	7.32	9.94	3.48	12.42	10.28
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100761686	100761686	0.09	0.11	0.04	0.04	0.13	0.08	3.04	3.66	1.24	1.16	4.14	2.80
liver carboxylesterase-like	LOC100761688	100761688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29	LOC100761689	100761689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100761690	100761690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor A protein-like 8	LOC100761691	100761691	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2 member D11-like	LOC100761692	100761692	1.75	1.76	2.08	2.07	1.83	1.95	191.40	197.65	222.33	250.33	222.52	222.45
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100761695	100761695	46.31	53.32	45.28	43.09	46.70	34.70	818.02	931.50	827.23	750.98	830.06	607.54
olfactory receptor 147	LOC100761696	100761696	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 14A16-like	LOC100761705	100761705	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinal dehydrogenase 1-like	LOC100761706	100761706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc transporter 9-like	LOC100761715	100761715	2.28	2.41	2.17	1.89	2.96	2.45	90.39	92.42	86.95	74.17	114.88	93.47
tubulin alpha-1A chain	LOC100761720	100761720	143.35	138.99	133.92	109.94	87.53	95.06	3285.01	3086.41	3005.85	2417.51	1729.46	2006.74
zinc finger protein 420-like	LOC100761721	100761721	0.02	0.00	0.00	0.00	0.02	0.00	0.76	0.00	0.00	0.00	1.03	0.93
chromatin target of PRMT1 protein pseudogene	LOC100761722	100761722	0.29	0.10	0.24	0.07	0.12	0.16	2.28	0.92	0.00	0.00	0.00	1.87
leukotriene-B(4) omega-hydroxylase 2	LOC100761725	100761725	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1C chain-like	LOC100761726	100761726	0.47	0.36	0.28	0.05	0.48	0.26	69.88	53.99	42.23	32.45	52.78	73.84
E3 ubiquitin-protein ligase RNF168 pseudogene	LOC100761731	100761731	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L24, mitochondrial pseudogene	LOC100761739	100761739	0.77	0.78	0.63	0.96	0.71	0.93	12.91	14.64	9.94	17.38	12.42	13.09
high mobility group protein B1 pseudogene	LOC100761755	100761755	9.05	11.07	7.89	6.32	5.96	5.06	62.28	85.10	54.65	40.56	35.19	39.26
olfactory receptor 4P4-like	LOC100761756	100761756	0.02	0.00	0.04	0.03	0.03	0.03	1.52	0.00	1.24	1.16	1.03	0.93
histone H2A type 1-F	LOC100761758	100761758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peroxiredoxin-1 pseudogene	LOC100761768	100761768	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	1.03	0.00
PRAME family member 12-like	LOC100761772	100761772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-12-like	LOC100761773	100761773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial pseudogene	LOC100761775	100761775	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2U1	LOC100761779	100761779	16.08	17.02	23.99	25.12	23.93	22.37	448.89	468.50	650.85	689.56	647.90	613.14

keratin, type I cuticular Ha1-like	LOC100761784	100761784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1496	LOC100761786	100761786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human CXorf30	LOC100761787	100761787	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 52D1-like	LOC100761788	100761788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100761789	100761789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable E3 ubiquitin-protein ligase HERC3	LOC100761790	100761790	1.69	1.71	1.58	2.04	2.43	2.16	120.01	127.19	120.48	148.34	165.60	153.29
olfactory receptor 4B1	LOC100761793	100761793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 226-like	LOC100761794	100761794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dnaJ homolog subfamily C member 10 pseudogene	LOC100761795	100761795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opioid growth factor receptor pseudogene	LOC100761796	100761796	1.60	1.34	1.38	0.95	0.53	0.79	78.23	73.20	57.14	46.36	16.56	30.84
olfactory receptor 52E1-like	LOC100761799	100761799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable G-protein coupled receptor 160	LOC100761800	100761800	0.02	0.00	0.03	0.02	0.11	0.06	0.00	0.00	0.00	0.00	2.07	0.00
melanoma-associated antigen B4	LOC100761801	100761801	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 5D18	LOC100761804	100761804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-2-macroglobulin-like	LOC100761806	100761806	0.01	0.00	0.00	0.01	0.01	0.00	8.35	5.49	3.73	2.32	11.38	6.54
tumor suppressor candidate 3	LOC100761811	100761811	11.98	10.90	11.85	14.34	16.31	13.36	420.03	374.25	408.65	484.43	556.82	446.77
histone H3.3	LOC100761813	100761813	4.53	3.88	2.48	3.65	3.01	3.92	248.37	266.27	243.45	244.53	203.89	228.06
olfactory receptor 5	LOC100761814	100761814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sperm motility kinase-like	LOC100761816	100761816	0.03	0.03	0.00	0.00	0.04	0.00	1.52	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC100761818	LOC100761818	100761818	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 12-like	LOC100761821	100761821	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit J-like	LOC100761823	100761823	0.04	0.00	0.00	0.00	0.00	0.00	1.52	1.83	2.48	0.00	0.00	1.87
60S ribosomal protein L31 pseudogene	LOC100761824	100761824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nebulin-related-anchoring protein	LOC100761828	100761828	15.46	16.53	14.16	16.88	15.50	15.89	712.45	753.07	660.79	801.97	725.53	753.34
pre-mRNA-splicing factor SPF27 pseudogene	LOC100761831	100761831	0.29	0.23	0.21	0.05	0.07	0.16	9.87	6.41	4.97	1.16	1.03	3.74
60S acidic ribosomal protein P1 pseudogene	LOC100761837	100761837	29.17	26.51	25.49	15.44	7.11	7.36	224.82	256.21	244.69	105.46	50.71	52.34
chromosome unknown open reading frame, human C21orf2	LOC100761839	100761839	6.88	7.53	8.60	7.14	5.88	6.36	302.30	331.24	377.59	305.95	257.71	277.60
histone H1.4	LOC100761846	100761846	0.18	0.22	0.16	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1-like	LOC100761847	100761847	3.33	4.38	6.07	2.98	0.98	0.70	15.95	17.39	27.33	8.11	7.24	8.41
pre-mRNA-splicing factor SPF27 pseudogene	LOC100761848	100761848	0.29	0.38	0.12	0.00	0.27	0.21	8.35	6.41	1.24	2.32	7.24	5.61
protein FAM222B-like	LOC100761849	100761849	0.02	0.03	0.02	0.02	0.02	0.02	0.76	0.92	1.24	1.16	0.00	0.93
zinc finger protein 39-like	LOC100761850	100761850	1.32	1.10	1.47	1.64	2.17	1.38	95.70	79.61	95.64	107.78	146.97	97.21
prolactin-2B1-like	LOC100761856	100761856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 3 pseudogene	LOC100761857	100761857	0.71	0.67	0.57	0.51	0.48	0.28	17.47	14.64	12.42	12.75	11.38	5.61
mitogen-activated protein kinase 6 pseudogene	LOC100761862	100761862	6.31	7.00	7.56	7.50	8.72	8.76	26.58	41.18	34.78	17.38	32.08	25.24
40S ribosomal protein SA pseudogene	LOC100761864	100761864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C-C chemokine receptor 1-like protein 1	LOC100761868	100761868	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coronin-1B pseudogene	LOC100761872	100761872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7G3-like	LOC100761874	100761874	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52E8	LOC100761875	100761875	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin light polypeptide 6-like	LOC100761877	100761877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 5	LOC100761879	100761879	19.58	19.98	21.40	17.01	14.70	15.34	726.12	745.75	747.74	577.14	506.11	515.94
ferritin light chain 1 pseudogene	LOC100761883	100761883	0.00	0.05	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 883-like	LOC100761886	100761886	2.56	2.62	3.09	2.25	2.99	2.17	182.29	174.77	196.25	173.84	207.00	153.29
tubulin beta-2A chain	LOC100761889	100761889	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-lysine N-methyltransferase 2D-like	LOC100761892	100761892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1	LOC100761893	100761893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein	LOC100761896	100761896	0.87	0.55	1.91	2.21	2.57	1.72	12.15	9.15	33.54	34.77	46.57	26.17
H-2 class I histocompatibility antigen, L-D alpha chain-like	LOC100761901	100761901	1.52	1.22	1.27	0.36	0.25	0.04	76.71	70.46	65.83	16.22	14.49	9.35
Uncharacterized protein C1orf31-like	LOC100761903	100761903	42.46	40.88	50.59	43.39	40.94	41.04	862.84	826.28	1021.00	858.76	796.94	808.49
60S ribosomal protein L9 pseudogene	LOC100761904	100761904	0.20	0.00	0.00	0.00	0.00	0.00	2.28	0.92	1.24	0.00	1.03	0.93
olfactory receptor 8S1-like	LOC100761906	100761906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAF5-like RNA polymerase II p300/CBP-associated factor-associated factor 65 kDa subunit 5L pseudogene	LOC100761911	100761911	0.03	0.06	0.00	0.05	0.02	0.02	1.52	2.75	0.00	2.32	1.03	0.93
olfactory receptor 1468	LOC100761913	100761913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C1orf74	LOC100761917	100761917	0.02	0.00	0.00	0.00	0.00	0.02	1.52	0.00	0.00	0.00	0.00	0.93
olfactory receptor 958-like	LOC100761918	100761918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100761919	100761919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B3-like	LOC100761921	100761921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit K pseudogene	LOC100761924	100761924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S8 pseudogene	LOC100761925	100761925	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	2.07	0.00
primary ciliary dyskinesia protein 1	LOC100761926	100761926	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.93
protein FAM118B pseudogene	LOC100761927	100761927	0.00	0.00	0.02	0.04	0.08	0.04	0.00	0.00	0.00	2.32	4.14	2.80
DNA-directed RNA polymerases I, II, and III subunit RPABC5	LOC100761930	100761930	0.57	0.36	0.55	0.42	0.56	0.30	3.80	0.00	2.48	0.00	2.07	0.93
GLIPR1-like protein 2	LOC100761938	100761938	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	3.73	0.00	1.03	0.00
40S ribosomal protein S2 pseudogene	LOC100761939	100761939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable ribosome biogenesis protein RLP24 pseudogene	LOC100761940	100761940	0.33	0.40	0.28	0.40	0.35	0.21	3.04	3.66	2.48	3.48	3.10	1.87
protein transport protein Sec61 subunit gamma	LOC100761941	100761941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100761942	100761942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100761945	100761945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100761946	LOC100761946	100761946	0.36	0.26	0.12	0.23	0.30	0.46	5.32	3.66	4.97	3.48	4.14	7.48
olfactory receptor 4C15	LOC100761950	100761950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class II histocompatibility antigen, DRB1-10 beta chain-like	LOC100761951	100761951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 5M3	LOC100761953	100761953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myeloid cell surface antigen CD33	LOC100761955	100761955	0.04	0.00	0.00	0.06	0.00	0.00	3.80	3.66	2.48	2.32	1.03	0.93
ferritin heavy chain	LOC100761960	100761960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100761961	LOC100761961	100761961	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.93
60S ribosomal protein L36a-like	LOC100761963	100761963	10.08	10.43	9.20	4.37	6.59	10.36	31.14	36.60	36.02	16.22	20.70	38.32
immunoglobulin omega chain	LOC100761975	100761975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mothers against decapentaplegic homolog 1 pseudogene	LOC100761976	100761976	0.11	0.16	0.07	0.14	0.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K3	LOC100761978	100761978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100761979	100761979	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C22orf46	LOC100761980	100761980	0.19	0.20	0.18	0.23	0.19	0.16	24.31	25.62	23.60	30.13	24.84	20.56
Ig lambda chain V-I region MEM-like	LOC100761984	100761984	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 147-like	LOC100761987	100761987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box protein P4 pseudogene	LOC100761998	100761998	0.04	0.05	0.02	0.00	0.04	0.04	1.52	0.00	0.00	0.00	0.00	0.00
S-formylglutathione hydrolase-like	LOC100761999	100761999	0.05	0.30	0.06	0.00	0.10	0.13	12.15	15.56	6.21	2.32	11.38	7.48
olfactory receptor 52M1	LOC100762002	100762002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin beta chain	LOC100762004	100762004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100762006	100762006	0.08	0.12	0.05	0.20	0.27	0.31	1.52	0.92	2.48	3.48	5.17	6.54
chromatin target of PRMT1 protein pseudogene	LOC100762017	100762017	0.00	0.09	0.00	0.00	0.11	0.00	1.52	0.92	0.00	0.00	1.03	0.00

zinc finger protein 709-like	LOC100762018	100762018	8.71	8.65	10.22	11.99	12.01	11.41	692.70	690.85	821.02	949.16	937.70	925.32
solute carrier family 22 member 4	LOC100762019	100762019	2.73	1.83	2.57	2.44	2.57	2.31	94.94	80.52	96.88	114.73	113.85	106.55
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100762023	100762023	0.20	0.18	0.16	0.07	0.13	0.13	7.60	2.75	6.21	1.16	2.07	4.67
nuclear envelope pore membrane protein POM 121	LOC100762026	100762026	17.32	17.21	17.47	14.95	11.08	12.45	2349.25	2376.34	2387.29	1974.80	1414.83	1597.35
GTP-binding nuclear protein Ran-like	LOC100762030	100762030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced GTP-binding protein Mx2	LOC100762031	100762031	10.39	11.44	13.04	12.71	11.72	12.54	783.84	880.26	993.67	954.95	921.14	949.62
enhancer of rudimentary homolog pseudogene	LOC100762033	100762033	2.35	2.33	2.33	1.23	1.96	2.96	3.80	0.92	1.24	1.16	0.00	1.87
mortality factor 4-like protein 2	LOC100762034	100762034	1.71	1.12	1.03	1.41	1.34	1.44	29.62	20.13	19.87	26.66	24.84	24.30
pre-mRNA-splicing regulator WTAP	LOC100762035	100762035	24.94	25.26	26.37	26.85	27.57	25.41	1289.70	1296.60	1351.39	1425.47	1416.90	1315.08
protein SET-like	LOC100762039	100762039	0.02	0.00	0.07	0.00	0.00	0.03	0.76	0.00	2.48	0.00	0.00	0.93
elongation factor 1-alpha 1 pseudogene	LOC100762041	100762041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5D18-like	LOC100762047	100762047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2B type 1	LOC100762049	100762049	1.23	1.07	0.83	0.42	0.24	0.33	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf80	LOC100762054	100762054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S13	LOC100762057	100762057	1.79	1.99	2.59	1.70	2.35	1.88	20.51	31.11	29.81	17.38	31.05	17.76
retinol dehydrogenase 7-like	LOC100762059	100762059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endoplasmin-like	LOC100762060	100762060	0.04	0.01	0.02	0.04	0.00	0.00	2.28	0.92	1.24	2.32	0.00	0.00
tripartite motif-containing protein 6 pseudogene	LOC100762063	100762063	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00

interferon alpha-12	LOC100762064	100762064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L24 pseudogene	LOC100762066	100762066	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Heterogeneous nuclear ribonucleoprotein D-like	LOC100762069	100762069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribose-phosphate pyrophosphokinase 1-like	LOC100762070	100762070	0.21	0.17	0.22	0.17	0.23	0.25	3.80	3.66	4.97	2.32	1.03	5.61
GTPase ERas-like	LOC100762076	100762076	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1	LOC100762078	100762078	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
ran-binding protein 17	LOC100762081	100762081	2.35	2.71	2.62	2.82	3.41	3.76	233.18	268.10	257.11	279.30	336.37	356.11
high mobility group protein HMG-I/HMG-Y	LOC100762083	100762083	0.24	0.15	0.00	0.00	0.12	0.11	9.11	12.81	16.15	8.11	10.35	4.67
olfactory receptor 226-like	LOC100762084	100762084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51T1	LOC100762090	100762090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B3-like	LOC100762092	100762092	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100762095	100762095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
partner of Y14 and mago-like	LOC100762100	100762100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2 pseudogene	LOC100762101	100762101	0.07	0.09	0.08	0.12	0.14	0.11	0.76	0.92	0.00	3.48	3.10	0.93
olfactory receptor 5-like	LOC100762104	100762104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal secretory protein 1-like	LOC100762106	100762106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin-associated protein 3-like	LOC100762107	100762107	0.07	0.11	0.08	0.11	0.07	0.04	4.56	7.32	4.97	6.95	4.14	2.80
bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4	LOC100762108	100762108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PEST proteolytic signal-containing nuclear protein	LOC100762114	100762114	10.02	10.02	12.39	13.82	14.53	13.27	205.84	189.41	253.39	285.09	288.76	273.86
pancreatic triacylglycerol lipase	LOC100762115	100762115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.24	1.16	1.03	0.93
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100762120	100762120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100762135	100762135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 39-like	LOC100762136	100762136	2.19	1.80	1.95	2.15	2.75	2.39	242.29	201.31	217.37	239.90	306.36	266.38
chloride intracellular channel protein 1 pseudogene	LOC100762137	100762137	2.76	2.67	2.27	1.97	2.42	1.89	48.61	43.01	36.02	34.77	41.40	33.65
DAZ-associated protein 2-like	LOC100762145	100762145	14.88	12.93	13.89	15.45	15.09	15.50	170.14	146.41	155.26	170.36	155.25	172.91
serine/threonine-protein kinase MST4	LOC100762146	100762146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC100762148	100762148	10.97	11.79	8.59	4.62	6.97	5.22	102.54	107.97	78.25	39.40	61.06	46.73
pleiotropic regulator 1 pseudogene	LOC100762150	100762150	0.22	0.22	0.18	0.22	0.24	0.22	3.80	4.58	1.24	2.32	5.17	2.80
polyadenylate-binding protein 4 pseudogene	LOC100762156	100762156	0.00	0.12	0.32	0.07	0.00	0.00	0.00	1.83	4.97	1.16	0.00	0.00
vacuolar protein sorting-associated protein 72 homolog pseudogene	LOC100762158	100762158	0.06	0.03	0.18	0.04	0.00	0.00	1.52	0.92	4.97	1.16	0.00	0.00
chromosome unknown open reading frame, human C6orf25	LOC100762159	100762159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 7G2	LOC100762161	100762161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52K1	LOC100762163	100762163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S25 pseudogene	LOC100762164	100762164	3.49	1.68	1.33	0.37	0.65	1.38	34.94	18.30	12.42	3.48	8.28	13.09
rho-related GTP-binding protein RhoV pseudogene	LOC100762165	100762165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PNMA-like protein 1	LOC100762167	100762167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

heat shock protein HSP 90-beta-like	LOC100762168	100762168	0.03	0.03	0.03	0.01	0.01	0.01	1.52	1.83	1.24	1.16	1.03	0.00
zinc finger protein 2 homolog	LOC100762173	100762173	1.06	0.98	1.46	1.74	1.76	1.52	205.08	193.07	294.37	355.79	343.62	299.09
serpin B6-like	LOC100762176	100762176	8.43	6.91	4.85	3.92	6.80	7.16	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L6 pseudogene	LOC100762179	100762179	1.29	0.84	0.94	0.41	0.89	0.51	21.27	13.73	17.39	8.11	15.52	9.35
keratin-associated protein 13-1-like	LOC100762180	100762180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced very large GTPase 1-like	LOC100762181	100762181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100762182	100762182	3.44	3.68	3.14	0.94	0.60	0.87	73.68	77.78	57.14	22.02	9.31	12.15
zinc finger MYND domain-containing protein 19 pseudogene	LOC100762183	100762183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
citrate synthase, mitochondrial pseudogene	LOC100762185	100762185	0.19	0.20	0.14	0.17	0.23	0.05	22.79	17.39	8.69	15.07	17.59	17.76
60 kDa heat shock protein, mitochondrial-like	LOC100762188	100762188	0.02	0.04	0.00	0.00	0.05	0.00	0.76	1.83	0.00	0.00	2.07	0.00
lanosterol 14-alpha demethylase	LOC100762189	100762189	32.16	35.64	51.08	54.30	49.57	47.01	2583.19	2874.12	4097.64	4328.57	3944.33	3751.76
protein AMN1 homolog pseudogene	LOC100762190	100762190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100762191	100762191	6.37	5.87	4.22	4.51	6.09	3.26	60.00	51.24	36.02	40.56	48.64	28.97
forkhead box protein N1	LOC100762193	100762193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
la-related protein 4-like	LOC100762197	100762197	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C7orf73-like	LOC100762200	100762200	2.82	0.00	2.59	13.05	0.00	0.00	107.85	113.46	125.45	89.24	50.71	64.49
olfactory receptor 1496	LOC100762201	100762201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7-like	LOC100762215	100762215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

nucleosome assembly protein 1-like 1 pseudogene	LOC100762223	100762223	32.97	34.02	36.30	34.45	35.27	30.86	2318.11	2307.71	2323.94	2232.08	2255.24	2108.61
28S ribosomal protein S21, mitochondrial-like	LOC100762230	100762230	0.29	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13	LOC100762231	100762231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf53	LOC100762232	100762232	7.90	7.38	5.77	5.94	5.42	4.89	625.86	616.73	459.57	472.84	436.76	399.10
putative vomeronasal receptor-like protein 4	LOC100762234	100762234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100762238	100762238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class II histocompatibility antigen, E-D beta chain-like	LOC100762240	100762240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5M3-like	LOC100762242	100762242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf73	LOC100762248	100762248	82.75	80.69	78.08	73.64	78.74	71.84	2193.55	2117.39	2066.83	1933.08	2043.06	1884.29
zinc finger protein 431-like	LOC100762252	100762252	4.54	4.47	5.83	5.97	6.52	6.17	439.77	438.30	572.60	589.89	633.41	608.47
rab5 GDP/GTP exchange factor-like	LOC100762254	100762254	3.11	3.89	4.02	4.62	3.88	3.75	180.77	228.76	232.27	250.33	220.45	196.28
tubulin polyglutamylase complex subunit 2 pseudogene	LOC100762257	100762257	0.00	0.09	0.06	0.06	0.11	0.29	0.00	1.83	1.24	1.16	2.07	6.54
immunoglobulin iota chain-like	LOC100762263	100762263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100762264	LOC100762264	100762264	0.03	0.05	0.08	0.08	0.09	0.04	0.76	1.83	37.26	31.29	35.19	34.58
olfactory receptor 4K13-like	LOC100762265	100762265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100762266	100762266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52E2-like	LOC100762267	100762267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor subfamily B member 1F	LOC100762270	100762270	0.82	0.49	0.60	0.50	1.45	1.64	34.94	21.96	27.33	28.97	47.61	71.97

ras GTPase-activating protein-binding protein 1 pseudogene	LOC100762271	100762271	5.02	4.58	4.12	3.14	3.46	3.43	178.49	162.88	157.75	113.57	117.99	130.85
olfactory receptor 7E24-like	LOC100762272	100762272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3-like	LOC100762275	100762275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgin subfamily A member 6-like protein 2	LOC100762276	100762276	0.00	0.02	0.00	0.00	0.00	0.00	0.76	0.92	1.24	2.32	0.00	0.00
proprotein convertase subtilisin/kexin type 5	LOC100762283	100762283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polypyrimidine tract-binding protein 1-like	LOC100762287	100762287	25.34	24.93	23.27	17.21	10.00	10.90	619.02	613.07	581.30	392.87	202.86	243.01
RNA-binding protein with serine-rich domain 1 pseudogene	LOC100762289	100762289	0.21	0.15	0.27	0.13	0.11	0.05	3.80	2.75	4.97	2.32	2.07	0.93
olfactory receptor 52I2-like	LOC100762292	100762292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired box protein Pax-3	LOC100762293	100762293	24.95	24.25	28.85	25.12	20.12	19.98	996.52	983.66	1172.53	1027.96	788.66	835.59
60S ribosomal protein L31 pseudogene	LOC100762295	100762295	0.21	0.25	0.17	0.16	0.48	0.30	4.56	6.41	4.97	3.48	12.42	7.48
39S ribosomal protein L1, mitochondrial-like	LOC100762296	100762296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100762298	100762298	20.62	16.76	13.50	13.62	16.27	20.11	217.99	179.35	136.63	143.71	170.77	221.52
KH homology domain-containing protein 1 pseudogene	LOC100762305	100762305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor-type tyrosine-protein phosphatase V	LOC100762307	100762307	0.08	0.12	0.02	0.02	0.05	0.01	14.43	21.96	3.73	2.32	9.31	1.87
zinc finger protein 670-like	LOC100762310	100762310	5.97	6.18	6.36	8.13	8.67	7.12	564.34	561.83	556.45	690.72	734.84	668.29
chromosome unknown open reading frame, human C2orf49	LOC100762312	100762312	6.51	6.00	5.47	5.81	6.70	6.91	833.21	770.46	711.72	748.66	848.69	892.61
mitochondrial import inner membrane translocase subunit Tim8 A pseudogene	LOC100762327	100762327	93.69	76.28	66.99	60.06	39.26	45.78	410.15	326.67	281.95	216.72	140.76	166.37
uncharacterized LOC100762336	LOC100762336	100762336	4.64	4.31	0.69	0.40	0.81	1.37	41.77	36.60	6.21	3.48	9.31	3.74

olfactory receptor 5D18-like	LOC100762342	100762342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2B2	LOC100762344	100762344	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative ankyrin repeat domain-containing protein ENSP00000383069	LOC100762352	100762352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipid scramblase 2-like	LOC100762355	100762355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bystin-like	LOC100762361	100762361	0.52	0.67	0.64	0.50	0.59	0.60	18.99	23.79	37.26	27.81	19.66	26.17
interferon alpha-12-like	LOC100762362	100762362	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human CXorf57	LOC100762363	100762363	0.51	0.50	0.34	0.60	0.79	0.77	55.45	54.90	49.68	70.69	91.08	88.79
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100762365	100762365	51.89	76.09	62.22	37.29	57.80	31.99	133.68	233.33	195.01	83.44	154.21	70.10
blood group Rh(D) polypeptide-like	LOC100762369	100762369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iroquois-class homeodomain protein IRX-2-like	LOC100762372	100762372	3.49	0.00	12.87	0.00	0.00	0.00	17.47	24.71	40.99	24.34	21.73	18.69
claudin-3-like	LOC100762373	100762373	0.07	0.17	0.58	0.22	0.24	0.22	1.52	4.58	13.66	5.79	5.17	6.54
cytochrome b-c1 complex subunit 7	LOC100762374	100762374	137.20	136.39	174.78	160.20	165.45	155.66	1434.01	1421.96	1783.64	1554.11	1520.39	1523.51
olfactory receptor 1468	LOC100762375	100762375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human CXorf22	LOC100762376	100762376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1	LOC100762377	100762377	0.34	0.42	0.42	0.42	0.43	0.49	35.70	43.01	44.72	44.04	46.57	51.41
UDP-glucuronosyltransferase 2B17	LOC100762380	100762380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4X2-like	LOC100762381	100762381	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13A1-like	LOC100762382	100762382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 51A7	LOC100762388	100762388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 30A-like	LOC100762389	100762389	0.21	0.24	0.55	0.52	0.34	0.36	14.43	16.47	38.50	38.24	23.80	28.04
phosphopantothenate--cysteine ligase pseudogene	LOC100762390	100762390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5-like	LOC100762403	100762403	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C3orf38 homolog	LOC100762404	100762404	0.68	0.47	0.54	0.27	0.27	0.35	28.10	18.30	22.36	9.27	11.38	15.89
killer cell lectin-like receptor 2	LOC100762405	100762405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit epsilon, mitochondrial	LOC100762406	100762406	326.68	317.42	292.30	229.77	202.37	206.14	934.99	855.56	747.74	483.27	415.03	400.04
zinc finger MYND domain-containing protein 19 pseudogene	LOC100762412	100762412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 5 pseudogene	LOC100762419	100762419	0.22	0.26	0.18	0.26	0.00	0.07	3.04	3.66	2.48	3.48	0.00	0.93
acidic leucine-rich nuclear phosphoprotein 32 family member E pseudogene	LOC100762421	100762421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C21orf33	LOC100762424	100762424	30.32	29.21	28.10	21.39	17.62	18.76	1147.66	1120.00	1101.73	841.38	692.41	748.67
phenazine biosynthesis-like domain-containing protein 2	LOC100762425	100762425	0.07	0.08	0.06	0.00	0.00	0.04	2.28	3.66	1.24	0.00	0.00	1.87
histone H2A type 1-F-like	LOC100762429	100762429	0.00	0.23	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
serine/Arginine-related protein 53-like	LOC100762434	100762434	2.92	2.50	2.65	3.51	2.70	2.25	65.32	58.56	62.10	81.12	60.03	49.54
eukaryotic translation initiation factor 4E pseudogene	LOC100762436	100762436	0.32	1.03	0.22	0.25	0.22	0.13	4.56	13.73	2.48	3.48	2.07	1.87
prolactin-7A1-like	LOC100762438	100762438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
squamous cell carcinoma antigen recognized by T-cells 3	LOC100762447	100762447	34.75	33.55	31.71	29.35	25.93	29.63	3371.59	3268.50	3082.86	2846.31	2553.31	2880.65
L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase pseudogene	LOC100762453	100762453	0.19	0.16	0.10	0.07	0.10	0.11	3.80	4.58	2.48	2.32	2.07	2.80

vomeronasal type-2 receptor 116-like	LOC100762456	100762456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1 pseudogene	LOC100762462	100762462	0.51	0.25	0.51	0.00	0.00	0.46	2.28	0.92	2.48	0.00	0.00	1.87
trimeric intracellular cation channel type B pseudogene	LOC100762466	100762466	0.23	0.09	0.18	0.12	0.29	0.12	4.56	1.83	3.73	2.32	5.17	1.87
zinc finger protein 2 homolog	LOC100762468	100762468	0.00	0.02	0.02	0.00	0.09	0.03	0.00	0.92	4.97	2.32	5.17	2.80
chromosome unknown open reading frame, human CXorf40A	LOC100762472	100762472	21.07	20.16	22.25	21.91	22.93	22.09	536.99	514.25	558.94	542.37	576.49	558.93
ADP-ribosylation factor 1 pseudogene	LOC100762474	100762474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1	LOC100762476	100762476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced very large GTPase 1-like	LOC100762477	100762477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100762478	100762478	6.07	6.16	6.25	3.40	1.82	1.46	246.09	244.31	265.81	154.14	89.01	86.92
zinc finger protein 431-like	LOC100762479	100762479	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
elongation factor 1-alpha 1 pseudogene	LOC100762485	100762485	168.64	178.85	186.55	183.23	204.64	185.05	3180.95	3597.91	3859.16	3869.63	4220.67	3683.53
mitochondrial import inner membrane translocase subunit Tim23 pseudogene	LOC100762487	100762487	6.64	6.87	7.47	7.47	7.01	6.67	128.36	131.76	155.26	141.39	132.48	129.92
60S ribosomal protein L17 pseudogene	LOC100762489	100762489	0.41	0.53	0.18	0.23	0.09	0.12	3.04	4.58	1.24	2.32	0.00	0.93
	LOC100762490	100762490	0.02	0.03	0.01	0.01	0.00	0.04	1.52	1.83	3.73	6.95	6.21	5.61
olfactory receptor 1468	LOC100762498	100762498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein atonal homolog 8-like	LOC100762503	100762503	0.55	0.48	0.65	0.16	0.07	0.00	11.39	11.90	16.15	3.48	4.14	0.93
spliceosome RNA helicase DDX39B-like	LOC100762504	100762504	41.78	40.78	54.94	53.95	50.86	49.65	53.17	42.09	52.17	45.20	69.34	38.32
melanoma-associated antigen B3-like	LOC100762507	100762507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C3orf14	LOC100762512	100762512	12.17	12.68	9.44	9.85	13.49	12.55	815.75	838.17	624.77	630.45	861.11	815.97
small integral membrane protein 14 pseudogene	LOC100762522	100762522	0.10	0.12	0.11	0.00	0.14	0.04	0.76	0.00	2.48	1.16	2.07	0.93
ubiquitin-like	LOC100762524	100762524	0.51	0.62	0.47	0.84	0.36	0.17	3.04	2.75	2.48	5.79	2.07	2.80
glutamic acid-rich protein-like	LOC100762525	100762525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anionic trypsin-2	LOC100762526	100762526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100762529	100762529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15	LOC100762534	100762534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100762535	100762535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5M9	LOC100762538	100762538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small EDRK-rich factor 2 pseudogene	LOC100762543	100762543	12.30	10.61	11.79	8.44	11.24	7.90	6.08	4.58	3.73	2.32	8.28	3.74
histone H2B-like	LOC100762554	100762554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2M3	LOC100762559	100762559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable RNA-binding protein EIF1AD pseudogene	LOC100762560	100762560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-I region V35-like	LOC100762561	100762561	0.00	0.00	0.00	0.00	0.15	0.00						
olfactory receptor 4K3	LOC100762562	100762562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100762563	100762563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52J3	LOC100762564	100762564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2 member D11-like	LOC100762568	100762568	1.95	3.19	2.06	2.63	3.13	2.83	94.18	126.27	103.09	113.57	133.51	133.66

olfactory receptor 7E24-like	LOC100762570	100762570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3-like	LOC100762573	100762573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced guanylate-binding protein 1-like	LOC100762574	100762574	0.61	0.50	0.08	0.17	0.02	0.05	39.50	32.94	4.97	10.43	1.03	2.80
60S ribosomal protein L9 pseudogene	LOC100762579	100762579	0.43	0.66	0.51	0.56	0.58	0.63	19.75	17.39	9.94	9.27	14.49	11.22
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 pseudogene	LOC100762584	100762584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3 pseudogene	LOC100762585	100762585	0.00	0.33	0.35	0.00	0.30	0.00	5.32	5.49	6.21	3.48	4.14	2.80
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100762590	100762590	3.52	6.69	4.99	2.64	3.90	1.33	62.28	137.26	114.27	49.83	67.27	25.24
uncharacterized LOC100762592	LOC100762592	100762592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1B chain-like	LOC100762606	100762606	0.25	0.36	0.20	0.17	0.20	0.14	9.11	11.90	6.21	5.79	6.21	4.67
pre-mRNA-splicing factor SPF27 pseudogene	LOC100762609	100762609	0.47	0.41	0.24	0.38	0.34	0.21	6.84	6.41	3.73	6.95	5.17	2.80
high mobility group protein B1-like	LOC100762614	100762614	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	0.00	3.10	2.80
chromosome unknown open reading frame, human C20orf173	LOC100762617	100762617	0.24	0.35	0.23	0.29	0.39	0.29	16.71	23.79	18.63	24.34	27.94	28.04
FGFR1 oncogene partner 2 homolog pseudogene	LOC100762620	100762620	0.88	1.32	1.04	0.53	1.11	1.60	7.60	18.30	7.45	10.43	16.56	6.54
Microtubule-associated protein 1A	LOC100762622	100762622	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
mas-related G-protein coupled receptor member H-like	LOC100762623	100762623	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0-like	LOC100762631	100762631	217.25	207.22	192.79	148.05	108.86	111.27	754.22	632.29	504.29	301.32	262.89	285.07
40S ribosomal protein S15 pseudogene	LOC100762632	100762632	170.51	125.56	92.66	26.10	8.95	14.77	2826.25	2462.36	1707.87	504.13	167.67	223.39
olfactory receptor 5D18-like	LOC100762637	100762637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C19orf71	LOC100762642	100762642	0.10	0.13	0.17	0.00	0.00	0.00	49.37	41.18	32.29	27.81	22.77	30.84
ribosome biogenesis regulatory protein homolog	LOC100762654	100762654	0.38	0.45	0.00	0.20	0.00	0.00	4.56	6.41	0.00	2.32	0.00	0.00
interferon alpha-9	LOC100762655	100762655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 23 member 2-like	LOC100762656	100762656	0.22	0.07	0.15	0.08	0.05	0.07	10.63	4.58	11.18	5.79	4.14	4.67
olfactory receptor 49-like	LOC100762660	100762660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centrosomal protein of 192 kDa-like	LOC100762665	100762665	0.07	0.07	0.07	0.06	0.05	0.04	4.56	3.66	3.73	4.64	4.14	2.80
zinc finger protein 239-like	LOC100762666	100762666	0.49	0.64	0.68	0.70	0.69	0.93	32.66	42.09	43.47	47.52	47.61	56.08
olfactory receptor 1496	LOC100762667	100762667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B16	LOC100762668	100762668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100762669	100762669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2A3	LOC100762673	100762673	0.04	0.04	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
olfactory receptor 13G1-like	LOC100762674	100762674	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosome subunit biogenesis protein NIP7 homolog	LOC100762679	100762679	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 30A-like	LOC100762680	100762680	11.68	11.60	11.87	11.67	15.25	14.96	680.55	669.80	690.60	706.94	868.35	895.41
trimeric intracellular cation channel type B pseudogene	LOC100762685	100762685	0.10	0.09	0.08	0.00	0.12	0.02	3.04	4.58	2.48	0.00	3.10	0.00
uncharacterized protein ENSP00000372125 homolog	LOC100762686	100762686	0.11	0.05	0.06	0.17	0.10	0.16	6.08	2.75	4.97	9.27	9.31	9.35
interferon-induced guanylate-binding protein 2-like	LOC100762688	100762688	0.10	0.11	0.00	0.00	0.02	0.00	4.56	6.41	1.24	1.16	1.03	0.00
inactive ubiquitin carboxyl-terminal hydrolase 54	LOC100762693	100762693	8.23	8.15	8.92	9.69	11.14	11.18	950.18	948.89	1045.84	1118.36	1300.98	1303.86

serpin B8	LOC100762694	100762694	12.75	12.48	10.72	10.71	10.56	11.22	1353.50	1329.54	1134.03	1126.47	1095.02	1162.73
olfactory receptor 10A7	LOC100762695	100762695	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member E-like	LOC100762696	100762696	0.00	0.12	0.33	0.00	0.00	0.00	3.80	2.75	9.94	1.16	3.10	4.67
peptidyl-prolyl cis-trans isomerase A-like	LOC100762697	100762697	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cAMP-regulated phosphoprotein 19 pseudogene	LOC100762699	100762699	54.35	51.50	49.28	57.13	49.38	49.20	487.62	473.07	418.58	451.98	383.98	379.48
ubiquitin fusion degradation protein 1 homolog pseudogene	LOC100762700	100762700	0.83	0.97	0.72	0.75	1.15	0.60	15.95	20.13	16.15	13.91	20.70	8.41
cytochrome c oxidase subunit 8B, mitochondrial-like	LOC100762701	100762701	2.05	2.10	1.60	1.94	1.83	1.77	1.52	6.41	7.45	4.64	2.07	3.74
phenazine biosynthesis-like domain-containing protein	LOC100762717	100762717	0.19	0.40	0.23	0.04	0.07	0.03	6.84	14.64	4.97	2.32	1.03	0.00
histone H4	LOC100762720	100762720	0.04	0.19	0.20	0.00	0.00	0.00	1.52	1.83	2.48	0.00	0.00	0.93
serine/arginine repetitive matrix protein 1-like	LOC100762728	100762728	2.69	2.84	2.07	1.89	2.30	1.97	240.01	251.63	191.28	169.20	198.72	181.33
prolactin-7D1-like	LOC100762730	100762730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-alpha-like	LOC100762732	100762732	0.43	0.48	0.22	0.17	0.10	0.12	25.06	28.37	12.42	10.43	6.21	7.48
ATP synthase subunit gamma, mitochondrial pseudogene	LOC100762734	100762734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nascent polypeptide-associated complex subunit alpha	LOC100762735	100762735	782.19	799.70	787.48	834.30	795.57	798.69	17856.77	18329.95	17833.88	18371.20	17804.87	17691.43
40S ribosomal protein S2 pseudogene	LOC100762736	100762736	0.33	1.14	0.46	0.59	0.72	0.24	5.32	18.30	7.45	9.27	11.38	3.74
nucleophosmin pseudogene	LOC100762737	100762737	4.91	4.88	4.51	3.27	3.71	3.02	48.61	57.65	60.86	44.04	50.71	35.52
cellular nucleic acid-binding protein pseudogene	LOC100762742	100762742	12.08	10.49	13.14	6.29	6.31	6.61	881.07	725.62	709.23	389.40	257.71	282.27
60S ribosomal protein L37 pseudogene	LOC100762744	100762744	9.70	11.48	10.04	6.73	11.98	5.55	41.02	47.58	36.02	20.86	44.50	21.50

putative gustatory receptor clone PTE03	LOC100762745	100762745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
something about silencing protein 10-like	LOC100762748	100762748	0.06	0.04	0.05	0.00	0.00	0.00	2.28	2.75	1.24	1.16	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100762751	100762751	1.60	1.29	1.09	0.58	1.51	0.61	18.23	11.90	7.45	3.48	10.35	6.54
olfactory receptor 5B3-like	LOC100762752	100762752	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoglycerate kinase 1 pseudogene	LOC100762753	100762753	5.21	6.82	5.41	4.39	4.89	4.35	139.76	178.43	135.39	104.30	116.95	109.36
zinc finger protein 420-like	LOC100762754	100762754	3.01	3.30	3.95	4.31	5.19	3.53	242.29	267.19	314.25	339.56	402.61	287.88
heterogeneous nuclear ribonucleoprotein A3-like	LOC100762758	100762758	27.64	26.38	24.20	24.67	24.02	26.86	453.44	468.50	460.81	463.57	461.60	462.66
chromosome unknown open reading frame, human CXorf38	LOC100762759	100762759	13.30	13.85	14.04	14.12	13.73	15.52	1434.01	1512.55	1531.49	1518.19	1490.38	1665.58
40S ribosomal protein S8 pseudogene	LOC100762760	100762760	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
keratin-associated protein 13-1-like	LOC100762761	100762761	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mamu class I histocompatibility antigen, alpha chain F-like	LOC100762763	100762763	4.12	3.02	4.20	3.45	2.21	3.11	14.43	21.96	21.12	10.43	10.35	11.22
olfactory receptor 2AT4	LOC100762766	100762766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein lifeguard 2-like	LOC100762771	100762771	0.00	0.00	0.05	0.05	0.05	0.00	1.52	0.92	1.24	2.32	2.07	0.00
olfactory receptor 19	LOC100762779	100762779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-protein thioesterase 1 pseudogene	LOC100762782	100762782	0.68	0.62	0.36	0.36	0.52	0.51	1.52	0.92	1.24	1.16	0.00	0.00
synaptonemal complex protein 3-like	LOC100762783	100762783	68.03	62.06	66.14	69.48	80.90	74.76	2200.39	2045.10	2131.42	2234.40	2585.40	2358.17
60 kDa heat shock protein, mitochondrial pseudogene	LOC100762784	100762784	3.11	3.16	3.18	2.06	2.64	2.48	186.09	198.56	173.89	104.30	108.67	97.21
gephyrin	LOC100762786	100762786	27.18	27.86	26.38	28.79	28.73	29.67	1190.96	1178.56	1155.14	1178.62	1216.11	1247.78

ephrin-B2-like	LOC100762789	100762789	13.62	11.75	11.69	13.18	14.01	15.52	280.27	276.34	269.53	311.75	350.86	375.74
olfactory receptor 2A1/2A42-like	LOC100762793	100762793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
translationally-controlled tumor protein	LOC100762800	100762800	1.15	1.49	0.62	0.75	0.82	0.40	18.99	36.60	18.63	17.38	20.70	9.35
tryptase beta-2-like	LOC100762802	100762802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin, cytoplasmic 2-like	LOC100762803	100762803	0.89	0.73	0.92	0.49	0.75	0.55	37.98	26.54	40.99	17.38	28.98	20.56
C-terminal-binding protein 2 pseudogene	LOC100762805	100762805	0.89	0.70	0.51	0.40	0.77	0.87	7.60	15.56	1.24	9.27	7.24	16.82
putative vomeronasal receptor-like protein 4	LOC100762816	100762816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 780A-like	LOC100762819	100762819	0.77	0.58	0.77	0.69	1.16	0.87	34.18	28.37	36.02	34.77	54.85	40.19
olfactory receptor 4C16-like	LOC100762821	100762821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 2W6	LOC100762822	100762822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1038	LOC100762825	100762825	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100762828	100762828	0.00	0.00	0.00	0.00	0.10	0.09	0.00	0.00	0.00	0.00	1.03	0.93
histone H2A-Bbd type 1	LOC100762832	100762832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-inducible protein 27-like protein 2A	LOC100762836	100762836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome assembly chaperone 2 pseudogene	LOC100762848	100762848	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100762849	100762849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52E4-like	LOC100762850	100762850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 140	LOC100762854	100762854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L23a pseudogene	LOC100762856	100762856	24.15	30.14	23.12	16.25	17.05	14.22	103.30	85.10	63.35	42.88	47.61	63.56
olfactory receptor 18-like	LOC100762857	100762857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100762859	100762859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced guanylate-binding protein 1	LOC100762860	100762860	0.03	0.12	0.00	0.02	0.00	0.01	2.28	8.24	0.00	1.16	0.00	0.93
inhibitor of growth protein 1 pseudogene	LOC100762870	100762870	11.08	9.64	12.07	10.22	10.21	10.56	183.81	161.05	217.37	198.18	171.81	214.97
cytochrome P450 2B1	LOC100762876	100762876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27-like	LOC100762878	100762878	0.63	0.00	0.00	0.21	0.36	0.16	5.32	0.00	0.00	3.48	3.10	0.93
chromosome unknown open reading frame, human C10orf131	LOC100762880	100762880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SNRPN upstream reading frame protein pseudogene	LOC100762881	100762881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100762882	100762882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7G2-like	LOC100762883	100762883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import inner membrane translocase subunit Tim21-like	LOC100762887	100762887	0.07	0.04	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
tubulin alpha-3 chain	LOC100762888	100762888	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 20	LOC100762889	100762889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 134-like	LOC100762892	100762892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100762900	LOC100762900	100762900	18.38	19.49	12.96	14.47	14.62	11.59	363.06	387.06	264.56	273.51	276.34	241.14
chromosome unknown open reading frame, human C1orf43	LOC100762908	100762908	16.01	16.17	20.70	20.38	23.06	21.65	550.67	563.66	704.26	702.31	820.74	745.87
mas-related G-protein coupled receptor member X2-like	LOC100762911	100762911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

39S ribosomal protein L35, mitochondrial pseudogene	LOC100762921	100762921	0.00	0.08	0.00	0.11	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
GRB2-associated-binding protein 2-like	LOC100762922	100762922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane primary amine oxidase	LOC100762926	100762926	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	0.00	0.93
sorting nexin-2 pseudogene	LOC100762927	100762927	2.76	2.63	2.33	1.68	1.24	1.25	123.05	111.63	94.40	71.85	49.68	52.34
olfactory receptor 5W2	LOC100762928	100762928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L12 pseudogene	LOC100762931	100762931	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.93
isocitrate dehydrogenase [NADP] cytoplasmic pseudogene	LOC100762937	100762937	0.29	0.19	0.26	0.15	0.09	0.16	3.80	4.58	2.48	4.64	2.07	0.93
uncharacterized LOC100762940	LOC100762940	100762940	6.05	7.86	7.54	7.68	12.19	11.05	257.48	324.84	306.80	319.86	499.90	453.31
chromosome unknown open reading frame, human C6orf222	LOC100762947	100762947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
claudin-3-like	LOC100762956	100762956	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1496	LOC100762958	100762958	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1	LOC100762960	100762960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13A1-like	LOC100762964	100762964	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51G1	LOC100762969	100762969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin, cytoplasmic 1-like	LOC100762971	100762971	0.08	0.10	0.00	0.09	0.04	0.00	2.28	2.75	0.00	2.32	1.03	0.00
60S ribosomal protein L22-like 1 pseudogene	LOC100762973	100762973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100762974	100762974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate-binding protein 4-like	LOC100762978	100762978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C9orf172	LOC100762980	100762980	0.03	0.03	0.00	0.02	0.00	0.01	4.56	2.75	4.97	2.32	0.00	0.93
olfactory receptor 5AR1-like	LOC100762985	100762985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear factor of activated T-cells, cytoplasmic 2	LOC100762988	100762988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM228B	LOC100762989	100762989	3.45	2.97	4.10	4.77	4.61	4.75	142.03	143.66	167.68	191.22	185.26	199.08
chromosome unknown open reading frame, human C9orf142	LOC100762994	100762994	12.51	14.35	19.36	17.17	15.78	17.12	297.74	323.01	440.94	376.65	342.58	381.35
sperm motility kinase X-like	LOC100762996	100762996	0.05	0.03	0.06	0.08	0.05	0.05	3.80	0.92	4.97	4.64	4.14	3.74
serine protease inhibitor Kazal-type 7	LOC100763002	100763002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipid phosphate phosphatase-related protein type 3	LOC100763012	100763012	0.03	0.02	0.02	0.02	0.02	0.00	3.04	1.83	1.24	1.16	1.03	0.93
histone H2A type 1-C	LOC100763014	100763014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
doublesex- and mab-3-related transcription factor A1-like	LOC100763017	100763017	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.93
R3H domain-containing protein 2 pseudogene	LOC100763019	100763019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36a-like	LOC100763021	100763021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear migration protein nudC pseudogene	LOC100763025	100763025	6.59	5.44	5.70	3.74	5.91	4.42	310.65	272.68	249.66	206.29	265.99	269.18
sperm motility kinase-like	LOC100763031	100763031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100763035	LOC100763035	100763035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired box protein Pax-3-like	LOC100763036	100763036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative gustatory receptor clone PTE03	LOC100763037	100763037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
enhancer of rudimentary homolog pseudogene	LOC100763040	100763040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 5B3-like	LOC100763045	100763045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transgelin-2 pseudogene	LOC100763046	100763046	2.30	2.37	1.55	0.87	1.57	0.80	27.34	30.20	14.91	10.43	17.59	9.35
zinc finger protein 420-like	LOC100763047	100763047	3.85	3.75	4.94	5.97	6.14	5.36	430.66	412.68	557.70	646.68	667.57	598.19
melanoma-associated antigen 11	LOC100763051	100763051	0.79	0.99	0.72	0.60	0.62	0.53	16.71	20.13	13.66	11.59	13.45	15.89
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100763053	100763053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1	LOC100763055	100763055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100763059	100763059	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AT4	LOC100763061	100763061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100763071	100763071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein 3C-like	LOC100763076	100763076	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A-Bbd type 2/3	LOC100763078	100763078	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
cytochrome c oxidase assembly protein COX11, mitochondrial	LOC100763079	100763079	14.40	13.57	7.54	8.99	10.42	9.26	589.40	561.83	317.97	378.97	410.89	385.08
GTPase ERas-like	LOC100763084	100763084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L26-like 1 pseudogene	LOC100763086	100763086	0.56	0.40	0.34	0.00	0.43	0.46	3.04	2.75	1.24	0.00	2.07	1.87
60S ribosomal protein L36 pseudogene	LOC100763087	100763087	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U6 snRNA-associated Sm-like protein LSm5 pseudogene	LOC100763090	100763090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L13a-like	LOC100763092	100763092	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 92-like	LOC100763094	100763094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

serine/arginine-rich splicing factor 10-like	LOC100763095	100763095	0.54	0.56	0.89	0.59	0.80	0.47	0.00	0.00	0.00	0.00	0.00	0.00
rac GTPase-activating protein 1 pseudogene	LOC100763099	100763099	0.01	0.05	0.02	0.09	0.02	0.13	0.76	2.75	1.24	4.64	1.03	6.54
kinesin-like protein KIF18A pseudogene	LOC100763101	100763101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100763104	100763104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C45-like	LOC100763116	100763116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AL1	LOC100763119	100763119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf97	LOC100763122	100763122	0.00	0.00	0.00	0.00	0.07	0.06	0.00	0.92	0.00	0.00	1.03	0.93
zinc finger protein 26-like	LOC100763123	100763123	1.92	1.67	2.36	2.38	2.41	2.34	0.00	0.00	0.00	0.00	1.03	0.00
putative small nuclear ribonucleoprotein polypeptide E-like protein 1	LOC100763125	100763125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-inducible protein 27-like protein 2	LOC100763130	100763130	0.61	0.68	0.61	0.47	0.23	0.61	0.76	2.75	3.73	3.48	1.03	3.74
chromosome unknown open reading frame, human C16orf80	LOC100763131	100763131	41.09	41.40	40.80	41.40	48.12	46.93	1153.74	1163.01	1172.53	1126.47	1323.75	1270.22
pyrethroid hydrolase Ces2e-like	LOC100763140	100763140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AN1-like	LOC100763142	100763142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52A1	LOC100763143	100763143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C3-like	LOC100763145	100763145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100763148	100763148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100763150	100763150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100763152	100763152	1.95	1.35	1.63	1.16	0.88	0.92	6.08	4.58	6.21	4.64	1.03	3.74

ATP synthase subunit g, mitochondrial-like	LOC100763160	100763160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box protein P4-like	LOC100763161	100763161	0.02	0.09	0.03	0.00	0.05	0.05	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized protein C20orf24 homolog	LOC100763162	100763162	187.48	187.76	179.75	189.57	206.21	194.30	1906.44	2029.54	1812.20	1805.60	1924.04	1818.87
MRG/MORF4L-binding protein-like	LOC100763165	100763165	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cytochrome P450 2B1-like	LOC100763166	100763166	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf201	LOC100763167	100763167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small nuclear ribonucleoprotein-associated protein N pseudogene	LOC100763171	100763171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 5-like	LOC100763172	100763172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phenylalanine--tRNA ligase alpha subunit pseudogene	LOC100763173	100763173	0.11	0.00	0.00	0.17	0.10	0.05	2.28	0.00	1.24	3.48	2.07	0.93
cytochrome b-c1 complex subunit 8	LOC100763175	100763175	128.39	139.39	148.77	121.82	153.21	124.09	441.29	421.83	396.23	271.19	338.44	271.05
olfactory receptor 51G2-like	LOC100763177	100763177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100763179	100763179	0.07	0.00	0.02	0.00	0.00	0.02	1.52	0.92	0.00	0.00	0.00	0.00
sterile alpha motif domain-containing protein 5	LOC100763181	100763181	17.79	18.08	19.42	21.08	20.60	20.71	3674.65	3816.60	4154.78	4526.74	4365.57	4443.42
40S ribosomal protein S8 pseudogene	LOC100763182	100763182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable GPI-anchored adhesin-like protein PGA55	LOC100763184	100763184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf40	LOC100763185	100763185	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	1.03	0.00
chromosome unknown open reading frame, human C1orf189	LOC100763195	100763195	0.39	0.23	0.32	0.60	0.54	0.06	15.19	10.07	16.15	19.70	30.01	14.02
cell division cycle protein 27 homolog pseudogene	LOC100763196	100763196	0.75	0.81	0.54	0.60	0.62	0.73	18.99	28.37	16.15	12.75	22.77	17.76

mas-related G-protein coupled receptor member B2-like	LOC100763198	100763198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein THEMIS3-like	LOC100763208	100763208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100763210	100763210	0.04	0.09	0.09	0.12	0.00	0.00	0.76	1.83	1.24	2.32	0.00	0.00
WAP four-disulfide core domain protein 15A-like	LOC100763213	100763213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100763216	100763216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	LOC100763224	100763224	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 40 member 1-like	LOC100763228	100763228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-12-like	LOC100763235	100763235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal export protein NMD3 pseudogene	LOC100763236	100763236	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
cyclic nucleotide-gated cation channel beta-1-like	LOC100763240	100763240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein MEMO1 pseudogene	LOC100763241	100763241	2.95	2.05	2.24	1.88	0.72	1.79	75.95	54.90	57.14	42.88	17.59	41.13
olfactory receptor 1496	LOC100763247	100763247	0.08	0.06	0.07	0.09	0.01	0.00	11.39	8.24	9.94	13.91	1.03	0.00
receptor-type tyrosine-protein phosphatase kappa	LOC100763249	100763249	10.15	11.06	0.03	0.00	0.00	0.00	429.90	410.85	1.24	0.00	0.00	0.00
sulfotransferase 1 family member D1	LOC100763252	100763252	0.11	0.07	0.00	0.00	0.00	0.00	7.60	4.58	0.00	0.00	0.00	0.00
olfactory receptor 13G1-like	LOC100763253	100763253	0.03	0.06	0.04	0.15	0.00	0.02	35.70	41.18	32.29	25.50	23.80	25.24
melanoma-associated antigen G1-like	LOC100763256	100763256	0.00	0.03	0.00	0.00	0.06	0.00	0.00	0.92	0.00	0.00	2.07	0.00
olfactory receptor 52R1-like	LOC100763258	100763258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52H1	LOC100763259	100763259	0.00	0.00	0.05	0.05	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00

olfactory receptor 10-like	LOC100763260	100763260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-C motif chemokine 7	LOC100763261	100763261	9.70	8.61	3.08	2.71	2.53	2.11	168.62	149.15	52.17	45.20	42.43	34.58
E3 ubiquitin-protein ligase RNF216 pseudogene	LOC100763262	100763262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100763263	100763263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member E pseudogene	LOC100763264	100763264	4.79	7.25	5.07	3.99	5.13	3.54	87.35	129.93	91.91	67.22	94.18	66.36
high mobility group protein B1 pseudogene	LOC100763266	100763266	4.37	4.62	4.35	4.17	4.50	4.69	50.89	55.82	54.65	45.20	55.89	61.69
interferon-induced guanylate-binding protein 1-like	LOC100763267	100763267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf16	LOC100763270	100763270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100763271	100763271	1.19	0.89	0.70	0.15	0.26	0.55	25.06	18.30	13.66	2.32	4.14	11.22
olfactory receptor 8S1	LOC100763276	100763276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1-like	LOC100763286	100763286	0.19	0.25	0.28	0.12	0.27	0.23	1.52	3.66	2.48	2.32	5.17	2.80
40S ribosomal protein S20 pseudogene	LOC100763287	100763287	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
signal peptidase complex subunit 3	LOC100763290	100763290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100763301	LOC100763301	100763301	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
transmembrane epididymal protein 1-like	LOC100763303	100763303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC100763306	100763306	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
prolactin-7C1-like	LOC100763308	100763308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
splicing factor U2AF 65 kDa subunit	LOC100763310	100763310	44.49	44.03	37.35	29.96	21.07	23.20	1527.43	1517.13	1284.32	1032.60	724.49	798.21

olfactory receptor 11	LOC100763311	100763311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1-like	LOC100763315	100763315	0.04	0.05	0.00	0.00	0.05	0.08	0.76	0.92	0.00	0.00	1.03	0.93
40S ribosomal protein S12 pseudogene	LOC100763318	100763318	0.00	0.24	0.00	0.00	0.00	0.00	4.56	7.32	2.48	3.48	0.00	0.00
uncharacterized LOC100763326	LOC100763326	100763326	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	2.07	0.00
olfactory receptor 7G2-like	LOC100763328	100763328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hepatitis A virus cellular receptor 1 homolog	LOC100763331	100763331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 1 pseudogene	LOC100763333	100763333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3 pseudogene	LOC100763334	100763334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B2-like	LOC100763338	100763338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ceramide synthase 2 pseudogene	LOC100763341	100763341	0.05	0.15	0.00	0.00	0.00	0.09	3.04	4.58	0.00	1.16	0.00	3.74
dnaJ homolog subfamily A member 1 pseudogene	LOC100763342	100763342	10.20	10.35	12.34	10.93	10.65	10.07	291.66	292.81	357.72	295.52	277.38	265.45
keratin-associated protein 13-1	LOC100763349	100763349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
maestro heat-like repeat family member 5	LOC100763350	100763350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC100763351	100763351	0.16	0.38	0.00	0.19	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100763352	100763352	0.07	0.04	0.00	0.05	0.04	0.04	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AT4	LOC100763354	100763354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rRNA 2'-O-methyltransferase fibrillarin pseudogene	LOC100763356	100763356	0.07	0.17	0.11	0.00	0.10	0.22	9.87	16.47	12.42	2.32	5.17	5.61
olfactory receptor 2AJ1-like	LOC100763360	100763360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100763364	100763364	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
40S ribosomal protein S21 pseudogene	LOC100763369	100763369	0.33	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
HMG domain-containing protein 4-like	LOC100763370	100763370	0.02	0.04	0.05	0.00	0.04	0.00	3.80	5.49	6.21	2.32	3.10	2.80
nucleophosmin pseudogene	LOC100763371	100763371	0.31	0.30	0.09	0.17	0.12	0.02	9.87	9.15	7.45	5.79	7.24	7.48
synaptojanin-2-binding protein	LOC100763373	100763373	14.93	14.34	13.12	13.91	15.80	14.99	1690.73	1625.10	1496.71	1583.08	1780.18	1712.31
Ig kappa chain V-I region HK102-like	LOC100763380	100763380	0.00	0.00	0.00	0.00	0.00	0.00						
U1 small nuclear ribonucleoprotein C pseudogene	LOC100763384	100763384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 10-like	LOC100763388	100763388	1.91	2.48	2.90	3.26	2.58	3.65	14.43	17.39	16.15	24.34	15.52	26.17
serine protease 29-like	LOC100763389	100763389	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyadenylate-binding protein 1 pseudogene	LOC100763393	100763393	0.54	0.74	0.51	0.14	0.08	0.15	34.18	40.26	34.78	8.11	4.14	6.54
heterogeneous nuclear ribonucleoproteins C1/C2 pseudogene	LOC100763396	100763396	0.04	0.10	0.00	0.00	0.00	0.00	3.80	10.07	6.21	0.00	5.17	1.87
olfactory receptor 9A2	LOC100763399	100763399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf104	LOC100763401	100763401	0.00	0.01	0.00	0.00	0.00	0.01	0.00	1.83	0.00	0.00	0.00	0.93
olfactory receptor 4C45-like	LOC100763408	100763408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AL1-like	LOC100763411	100763411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100763417	LOC100763417	100763417	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
tropomyosin alpha-4 chain pseudogene	LOC100763420	100763420	1.81	2.03	1.38	0.95	1.92	1.15	39.50	41.18	24.84	20.86	40.36	23.37
interferon alpha-inducible protein 27-like protein 2A	LOC100763422	100763422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

calponin-3 pseudogene	LOC100763427	100763427	6.44	6.44	5.98	4.17	3.09	3.10	245.33	236.08	208.67	120.53	84.87	81.32
UDP-glucuronosyltransferase 2B31-like	LOC100763430	100763430	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.92	0.00	0.00	1.03	0.00
phospholipase A2-like	LOC100763432	100763432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5A1	LOC100763434	100763434	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52K1-like	LOC100763435	100763435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation of very long chain fatty acids protein 6	LOC100763438	100763438	7.18	7.49	7.58	8.76	8.85	7.58	628.90	647.84	671.97	763.73	762.78	669.22
olfactory receptor 8B3-like	LOC100763442	100763442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
exocyst complex component 8-like	LOC100763446	100763446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 260-like	LOC100763447	100763447	0.01	0.01	0.00	0.00	0.01	0.00	0.76	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L30-like	LOC100763448	100763448	0.77	2.42	3.76	1.78	1.31	0.91	16.71	30.20	42.23	34.77	14.49	20.56
protein NDRG3-like	LOC100763452	100763452	0.18	0.26	0.21	0.24	0.40	0.34	0.00	0.92	0.00	0.00	2.07	0.93
C-type lectin domain family 10 member A-like	LOC100763454	100763454	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100763460	100763460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
induced myeloid leukemia cell differentiation protein Mcl-1 homolog	LOC100763461	100763461	0.25	0.22	0.00	0.11	0.07	0.00	1.52	1.83	0.00	1.16	0.00	0.00
interleukin-36 receptor antagonist protein-like	LOC100763466	100763466	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 226-like	LOC100763468	100763468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dnaJ homolog subfamily B member 6-like	LOC100763476	100763476	0.47	0.57	0.62	0.37	0.52	0.41	8.35	10.07	9.94	5.79	8.28	6.54
chromosome unknown open reading frame, human C4orf46	LOC100763477	100763477	48.96	49.39	81.33	84.41	98.25	95.20	2809.54	2828.37	4705.02	4812.99	5625.15	5505.20

60S ribosomal protein L17 pseudogene	LOC100763483	100763483	0.16	0.13	0.09	0.00	0.00	0.00	1.52	1.83	1.24	4.64	2.07	2.80
mas-related G-protein coupled receptor member B2-like	LOC100763485	100763485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D2B	LOC100763486	100763486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase	LOC100763488	100763488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100763490	100763490	24.66	21.79	20.58	16.19	21.71	17.76	212.67	213.20	209.91	154.14	212.17	160.76
putative uncharacterized protein DDB_G0282133	LOC100763491	100763491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import inner membrane translocase subunit Tim23 pseudogene	LOC100763492	100763492	0.25	0.31	0.08	0.08	0.14	0.03	6.08	6.41	2.48	3.48	2.07	0.00
40S ribosomal protein S19-like	LOC100763493	100763493	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.93
40S ribosomal protein S16 pseudogene	LOC100763495	100763495	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
60S ribosomal protein L4 pseudogene	LOC100763496	100763496	0.24	0.31	0.08	0.27	0.19	0.07	7.60	10.07	2.48	8.11	5.17	1.87
antigen-presenting glycoprotein CD1d1-like	LOC100763497	100763497	3.46	3.24	3.14	3.18	2.85	3.08	167.86	153.73	144.08	158.77	152.14	156.09
multifunctional protein ADE2 pseudogene	LOC100763498	100763498	0.08	0.14	0.11	0.07	0.11	0.01	1.52	3.66	2.48	2.32	1.03	0.00
WAP four-disulfide core domain protein 15A-like	LOC100763499	100763499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100763502	100763502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2/3 complex subunit 5-like	LOC100763508	100763508	5.53	6.57	4.93	2.50	2.26	2.01	175.45	218.69	152.78	66.06	50.71	44.86
androgen-binding protein homolog	LOC100763511	100763511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100763515	100763515	0.22	0.23	0.17	0.05	0.14	0.12	3.80	4.58	2.48	1.16	3.10	1.87
interferon alpha-3	LOC100763520	100763520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100763526	LOC100763526	100763526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L30-like	LOC100763530	100763530	176.70	167.15	170.71	111.14	51.02	54.95	1276.79	1208.76	1179.98	717.37	335.34	339.29
olfactory receptor 1468-like	LOC100763532	100763532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23-like	LOC100763537	100763537	2.99	7.28	4.74	4.44	3.54	2.15	27.34	66.80	43.47	45.20	33.12	22.43
UDP-glucuronosyltransferase 2B7	LOC100763538	100763538	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 13G1-like	LOC100763539	100763539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c-type heme lyase	LOC100763541	100763541	19.09	19.36	19.62	19.44	22.39	20.88	1127.16	1134.64	1153.90	1134.58	1288.56	1206.66
olfactory receptor 51A4-like	LOC100763543	100763543	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100763549	100763549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100763550	100763550	2.30	2.87	1.84	1.28	1.36	1.51	28.10	30.20	17.39	13.91	15.52	16.82
interferon-induced guanylate-binding protein 1-like	LOC100763553	100763553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
butyrophilin-like protein 1	LOC100763557	100763557	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 150	LOC100763560	100763560	2.66	2.06	2.77	3.73	3.84	2.83	202.04	166.54	195.01	287.41	296.01	215.91
olfactory receptor 8S1	LOC100763561	100763561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family G member 3-like	LOC100763562	100763562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T29	LOC100763568	100763568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Willebrand factor A domain-containing protein 5A-like	LOC100763569	100763569	1.94	2.19	3.31	3.58	1.42	1.34	208.87	232.42	360.21	383.60	156.28	144.87
nucleoporin SEH1-like	LOC100763571	100763571	0.07	0.04	0.12	0.04	0.05	0.04	0.00	0.00	1.24	0.00	0.00	0.00

ATP synthase subunit s, mitochondrial pseudogene	LOC100763572	100763572	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51G2-like	LOC100763573	100763573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100763576	LOC100763576	100763576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small nuclear ribonucleoprotein Sm D2 pseudogene	LOC100763579	100763579	3.84	6.15	4.21	4.85	3.46	1.81	135.96	158.30	110.55	121.69	93.15	96.27
transmembrane epididymal protein 1-like	LOC100763587	100763587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-4A1-like	LOC100763591	100763591	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA-binding protein EWS pseudogene	LOC100763593	100763593	0.49	0.37	0.27	0.31	0.43	0.26	25.82	19.22	13.66	15.07	21.73	14.02
olfactory receptor 11-like	LOC100763594	100763594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polycomb group RING finger protein 6-like	LOC100763597	100763597	0.09	0.10	0.17	0.05	0.16	0.13	11.39	4.58	9.94	3.48	10.35	8.41
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial pseudogene	LOC100763602	100763602	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100763607	LOC100763607	100763607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hepatitis A virus cellular receptor 1 homolog	LOC100763611	100763611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acylcarnitine hydrolase	LOC100763617	100763617	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf81	LOC100763618	100763618	0.07	0.06	0.03	0.07	0.02	0.02	3.80	4.58	2.48	4.64	2.07	0.93
olfactory receptor 5B12-like	LOC100763619	100763619	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pumilio domain-containing protein KIAA0020 pseudogene	LOC100763627	100763627	0.10	0.10	0.07	0.06	0.04	0.04	4.56	5.49	3.73	3.48	2.07	0.93
microtubule-associated protein futsch-like	LOC100763629	100763629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease P protein subunit p21-like	LOC100763630	100763630	3.32	2.77	2.48	1.79	1.62	0.99	90.39	75.03	68.31	48.67	25.87	19.63

olfactory receptor 2L13-like	LOC100763638	100763638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2B1-like	LOC100763642	100763642	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
mitochondrial pyruvate carrier 1 pseudogene	LOC100763643	100763643	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AG2	LOC100763647	100763647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger X-linked protein ZXDB	LOC100763650	100763650	2.87	2.80	2.77	2.63	2.06	1.99	154.19	151.90	146.57	159.93	137.65	125.25
protein SET-like	LOC100763651	100763651	0.25	0.72	0.56	0.45	0.55	0.34	2.28	10.07	4.97	3.48	8.28	3.74
cytochrome P450 2B1-like	LOC100763652	100763652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100763654	100763654	10.62	9.45	7.23	5.43	5.62	3.72	107.10	100.65	78.25	73.01	76.59	58.88
GTPase ERas-like	LOC100763655	100763655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative 60S ribosomal protein L37a	LOC100763656	100763656	8.25	10.39	7.36	6.07	8.89	5.70	50.13	63.14	40.99	35.93	56.92	28.04
olfactory receptor 10V1	LOC100763657	100763657	0.42	0.51	0.58	0.65	0.65	0.61	25.82	33.86	40.99	45.20	54.85	42.06
Reprimo-like protein	LOC100763659	100763659	0.05	0.00	0.00	0.00	0.07	0.06	0.76	0.00	0.00	3.48	1.03	1.87
DPH3 homolog	LOC100763661	100763661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low affinity sodium-glucose cotransporter-like	LOC100763664	100763664	0.01	0.00	0.05	0.09	0.07	0.09	0.00	0.00	0.00	0.00	0.00	0.00
serine protease inhibitor A3N-like	LOC100763668	100763668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100763669	100763669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 28-like	LOC100763670	100763670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100763674	100763674	8.78	8.47	8.11	7.27	7.80	7.23	24.31	33.86	36.02	32.45	31.05	30.84

olfactory receptor 5AL1-like	LOC100763692	100763692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S24 pseudogene	LOC100763697	100763697	27.34	31.61	24.83	20.88	27.55	28.39	229.38	250.72	182.59	150.66	196.65	174.78
SAGA-associated factor 29 homolog pseudogene	LOC100763699	100763699	2.51	3.06	3.13	1.33	0.77	0.81	19.75	32.03	26.08	11.59	5.17	6.54
rhox homeobox family member 1-like	LOC100763700	100763700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26	LOC100763702	100763702	147.38	129.56	110.23	52.15	30.91	33.65	189.88	148.24	129.18	78.81	61.06	110.29
interferon alpha-inducible protein 27-like protein 2A	LOC100763703	100763703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC100763713	100763713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4D10-like	LOC100763716	100763716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52M1-like	LOC100763717	100763717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM76A pseudogene	LOC100763719	100763719	0.63	0.91	0.32	0.67	0.60	1.08	11.39	17.39	6.21	12.75	11.38	18.69
40S ribosomal protein S25 pseudogene	LOC100763720	100763720	0.26	0.16	0.67	0.44	0.28	0.35	1.52	0.00	2.48	0.00	1.03	0.00
olfactory receptor 10C1-like	LOC100763724	100763724	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
general transcription factor IIH subunit 5 pseudogene	LOC100763726	100763726	3.04	2.60	3.04	2.35	2.86	1.65	5.32	6.41	13.66	6.95	14.49	3.74
protein SET-like	LOC100763729	100763729	8.05	9.39	8.52	7.20	8.11	6.48	148.87	170.20	157.75	130.96	139.72	118.70
zinc finger protein 175	LOC100763730	100763730	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome inhibitor PI31 subunit-like	LOC100763731	100763731	0.24	0.23	0.27	0.27	0.18	0.20	3.04	2.75	4.97	3.48	2.07	1.87
developmental pluripotency-associated protein 2-like	LOC100763734	100763734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37 pseudogene	LOC100763735	100763735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

aldose reductase pseudogene	LOC100763739	100763739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100763744	100763744	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sperm motility kinase X-like	LOC100763745	100763745	0.02	0.00	0.02	0.00	0.00	0.02	0.76	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L10-like	LOC100763747	100763747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
la-related protein 4 pseudogene	LOC100763763	100763763	0.01	0.00	0.00	0.04	0.00	0.00	0.76	0.00	1.24	2.32	0.00	0.00
chromosome unknown open reading frame, human C17orf64	LOC100763764	100763764	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
40S ribosomal protein S11-like	LOC100763765	100763765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 2, facilitated glucose transporter member 3-like	LOC100763766	100763766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dehydrogenase/reductase SDR family member 2, mitochondrial-like	LOC100763767	100763767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribose-5-phosphate isomerase-like	LOC100763768	100763768	1.00	1.44	1.48	0.85	0.40	0.61	23.55	33.86	32.29	19.70	10.35	14.95
mas-related G-protein coupled receptor member X2-like	LOC100763769	100763769	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
mitochondrial import receptor subunit TOM6 homolog pseudogene	LOC100763770	100763770	1.64	0.33	1.89	0.00	0.00	0.00	5.32	3.66	4.97	1.16	0.00	0.00
uncharacterized LOC100763771	LOC100763771	100763771	39.96	48.46	44.78	38.04	48.46	36.54	892.46	990.98	1069.44	986.24	1119.86	938.41
cytochrome c, somatic pseudogene	LOC100763772	100763772	0.45	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 pseudogene	LOC100763777	100763777	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
40S ribosomal protein S2 pseudogene	LOC100763781	100763781	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15	LOC100763784	100763784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100763785	100763785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 2Y1-like	LOC100763786	100763786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17	LOC100763788	100763788	293.61	289.39	284.57	282.45	279.82	267.63	4912.70	5481.05	5177.02	4972.93	5141.81	4388.27
interferon-inducible GTPase 1	LOC100763791	100763791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 21-like	LOC100763794	100763794	0.01	0.02	0.00	0.02	0.00	0.03	0.76	0.92	0.00	1.16	1.03	1.87
major allergen I polypeptide chain 1-like	LOC100763797	100763797	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
phospholipid scramblase 1-like	LOC100763798	100763798	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
insulin-induced gene 1 protein pseudogene	LOC100763805	100763805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
barrier-to-autointegration factor pseudogene	LOC100763811	100763811	2.21	2.02	1.91	1.94	0.80	0.76	6.08	6.41	6.21	4.64	4.14	1.87
chromosome unknown open reading frame, human C8orf46	LOC100763812	100763812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 1 member 2	LOC100763814	100763814	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	1.03	0.00
olfactory receptor 1L4-like	LOC100763816	100763816	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
zinc finger protein OZF-like	LOC100763819	100763819	3.23	3.28	3.50	3.36	2.94	3.08	394.96	402.61	439.70	394.03	370.53	394.43
protein arginine N-methyltransferase 1 pseudogene	LOC100763821	100763821	0.06	0.07	0.00	0.09	0.00	0.30	3.04	2.75	1.24	2.32	3.10	6.54
UDP-glucuronosyltransferase 2B17-like	LOC100763822	100763822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13A1	LOC100763823	100763823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100763827	100763827	0.88	0.89	0.00	0.52	0.85	0.81	3.80	2.75	3.73	1.16	5.17	1.87
olfactory receptor 51G2-like	LOC100763828	100763828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 6	LOC100763830	100763830	3.34	3.71	4.34	4.78	4.79	4.20	454.20	502.35	572.60	665.22	643.76	580.43

glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100763832	100763832	1.74	1.84	1.51	0.76	1.10	0.59	32.66	32.03	27.33	15.07	17.59	12.15
C-C motif chemokine 2	LOC100763833	100763833	129.15	157.63	81.22	99.66	131.30	114.03	2744.22	3359.09	1704.14	2062.88	2748.92	2389.95
hypothetical protein	LOC100763834	100763834	0.01	0.03	0.00	0.00	0.02	0.00	0.76	1.83	0.00	0.00	2.07	0.00
olfactory receptor 7E24-like	LOC100763835	100763835	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDGSH iron-sulfur domain-containing protein 1 pseudogene	LOC100763838	100763838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100763842	LOC100763842	100763842	1.33	1.10	1.76	0.54	1.11	0.67	27.34	20.13	24.84	27.81	23.80	25.24
olfactory receptor 8S1	LOC100763846	100763846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2 pseudogene	LOC100763848	100763848	6.71	6.25	6.85	6.26	7.07	6.97	173.17	159.22	168.92	156.45	174.91	169.18
histone H2A.Z	LOC100763852	100763852	351.63	360.55	354.10	333.16	340.09	355.82	4978.78	5093.08	5045.36	4622.93	4597.41	4733.17
olfactory receptor 2T29	LOC100763854	100763854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit alpha type-6 pseudogene	LOC100763858	100763858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KAT8 regulatory NSL complex subunit 1	LOC100763859	100763859	285.58	290.21	292.77	311.73	277.39	280.07	7219.42	7338.57	7468.67	7844.73	7287.34	7405.39
cytochrome c oxidase subunit 7A-related protein, mitochondrial pseudogene	LOC100763871	100763871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatidylserine synthase 2-like	LOC100763873	100763873	2.65	2.96	2.68	3.05	2.47	3.10	91.90	104.31	88.19	110.10	85.90	110.29
transmembrane epididymal protein 1-like	LOC100763875	100763875	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
interferon-inducible GTPase 1-like	LOC100763878	100763878	0.00	0.03	0.08	0.00	0.10	0.06	1.52	0.92	2.48	0.00	3.10	1.87
prolactin-5A1-like	LOC100763880	100763880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NEDD8-conjugating enzyme UBE2F-like	LOC100763882	100763882	0.52	0.09	0.00	0.00	0.21	0.09	23.55	14.64	11.18	10.43	6.21	4.67

putative olfactory receptor 2W6	LOC100763883	100763883	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100763889	100763889	2.33	2.20	2.65	3.44	3.46	2.85	209.63	207.71	240.96	316.39	318.78	261.71
uncharacterized LOC100763894	LOC100763894	100763894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100763896	100763896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15	LOC100763904	100763904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box only protein 34-like	LOC100763906	100763906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paternally-expressed gene 3 protein-like	LOC100763909	100763909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1-like	LOC100763914	100763914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100763918	100763918	0.17	0.21	0.16	0.02	0.23	0.21	5.32	6.41	4.97	2.32	8.28	1.87
60S ribosomal protein L9 pseudogene	LOC100763922	100763922	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
EF-hand calcium-binding domain-containing protein 1-like	LOC100763924	100763924	2.32	2.32	2.28	2.37	2.45	1.77	85.07	71.37	86.95	76.49	86.94	70.10
olfactory receptor 2L13	LOC100763925	100763925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100763930	100763930	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
ATP synthase subunit g, mitochondrial pseudogene	LOC100763933	100763933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AG2	LOC100763934	100763934	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUT family member Gm806-like	LOC100763938	100763938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger MYND domain-containing protein 19 pseudogene	LOC100763941	100763941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein 3C-like	LOC100763945	100763945	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

pre-mRNA-splicing factor SLU7 pseudogene	LOC100763946	100763946	0.09	0.00	0.00	0.05	0.00	0.00	2.28	0.92	0.00	2.32	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC100763948	100763948	4.12	6.08	3.37	3.46	3.55	2.77	25.82	35.69	19.87	18.54	21.73	14.02
39S ribosomal protein L27, mitochondrial pseudogene	LOC100763949	100763949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metal-response element-binding transcription factor 2-like	LOC100763952	100763952	0.06	0.00	0.03	0.03	0.00	0.00	2.28	0.00	1.24	1.16	1.03	0.00
amiloride-sensitive amine oxidase [copper-containing]	LOC100763954	100763954	6.04	6.95	3.43	4.24	4.64	5.09	431.42	500.52	248.42	302.48	330.16	359.85
serine protease inhibitor A3N-like	LOC100763955	100763955	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM209A-like	LOC100763956	100763956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
mastin-like	LOC100763957	100763957	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.03	0.00
40S ribosomal protein S11	LOC100763967	100763967	2.86	2.12	1.58	0.70	2.17	1.48	31.90	25.62	16.15	6.95	22.77	14.95
14-3-3 protein theta pseudogene	LOC100763969	100763969	0.77	0.96	0.53	0.43	0.58	0.38	22.79	24.71	16.15	8.11	12.42	9.35
60S ribosomal protein L7a pseudogene	LOC100763972	100763972	1339.56	1253.06	1273.62	1189.62	776.75	977.57	8282.78	7659.75	7635.11	6865.44	4678.14	5856.64
olfactory receptor 4C45-like	LOC100763977	100763977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1044	LOC100763980	100763980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
diazepam-binding inhibitor-like 5	LOC100763983	100763983	13.75	15.47	13.21	18.27	19.16	13.69	165.58	183.92	163.96	195.86	204.93	175.72
60S ribosomal protein L34 pseudogene	LOC100763986	100763986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptosomal-associated protein 23-like	LOC100763992	100763992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100763997	100763997	4.84	5.52	4.76	3.40	5.16	3.30	57.72	75.03	59.62	40.56	69.34	39.26
transmembrane protease serine 11G	LOC100763999	100763999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cytochrome c oxidase subunit 6A1, mitochondrial	LOC100764001	100764001	248.82	237.22	233.74	178.39	146.86	161.75	3746.05	3575.95	3498.96	2576.28	2165.19	2355.37
olfactory receptor 4D11	LOC100764003	100764003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52M1-like	LOC100764004	100764004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import receptor subunit TOM7 homolog pseudogene	LOC100764005	100764005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4B1	LOC100764006	100764006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100764007	100764007	0.62	0.96	0.66	0.14	0.43	0.20	4.56	5.49	6.21	0.00	2.07	0.93
RING-box protein 1-like	LOC100764010	100764010	0.47	0.19	0.00	0.00	0.22	0.00	6.84	5.49	2.48	0.00	2.07	0.93
olfactory receptor 10C1-like	LOC100764011	100764011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sialic acid-binding Ig-like lectin 12	LOC100764017	100764017	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protoheme IX farnesyltransferase, mitochondrial	LOC100764018	100764018	7.82	7.98	8.79	9.05	6.29	7.52	434.46	444.71	493.11	487.91	373.63	449.58
pantothenate kinase 2, mitochondrial pseudogene	LOC100764019	100764019	0.00	0.00	0.00	0.00	0.17	0.00	3.04	3.66	8.69	3.48	10.35	3.74
apomucin-like	LOC100764026	100764026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region PJ14-like	LOC100764029	100764029	0.00	0.00	0.00	0.00	0.00	0.00						
transmembrane 9 superfamily member 3-like	LOC100764032	100764032	0.51	0.47	0.28	0.07	0.32	0.23	21.27	21.05	14.91	2.32	13.45	8.41
heat shock 70 kDa protein 4 pseudogene	LOC100764039	100764039	0.14	0.09	0.00	0.04	0.10	0.09	5.32	4.58	0.00	1.16	5.17	2.80
hemoglobin subunit theta-1-like	LOC100764041	100764041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAF5-like RNA polymerase II p300/CBP-associated factor-associated factor 65 kDa subunit 5L pseudogene	LOC100764049	100764049	0.06	0.05	0.05	0.04	0.08	0.03	1.52	0.92	0.00	0.00	1.03	0.93
chromosome unknown open reading frame, human C2orf50	LOC100764052	100764052	0.02	0.00	0.10	0.06	0.11	0.02	0.76	0.00	4.97	2.32	6.21	3.74

N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase, isoform A-like	LOC100764057	100764057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase Praja-1-like	LOC100764065	100764065	0.25	0.22	0.13	0.12	0.14	0.18	6.84	5.49	3.73	2.32	4.14	2.80
seminal vesicle secretory protein 2-like	LOC100764067	100764067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial pseudogene	LOC100764068	100764068	0.19	0.14	0.08	0.05	0.21	0.10	113.17	90.59	90.67	18.54	23.80	17.76
olfactory receptor 5W2-like	LOC100764069	100764069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2Y1	LOC100764070	100764070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 1 pseudogene	LOC100764072	100764072	8.80	12.66	6.43	4.56	6.71	3.79	3130.82	3159.61	2331.40	2060.56	2276.97	2203.02
intelectin-1a	LOC100764079	100764079	0.13	0.14	0.00	0.11	0.00	0.03	6.08	6.41	0.00	4.64	0.00	0.93
Interferon alpha-inducible protein 27	LOC100764080	100764080	21.97	19.88	25.69	23.00	22.09	25.91	573.45	519.74	676.94	601.48	575.45	693.52
NHP2-like protein 1 pseudogene	LOC100764081	100764081	4.83	5.12	4.80	3.35	3.08	2.29	12.91	15.56	12.42	8.11	13.45	2.80
chromosome unknown open reading frame, human C1orf112	LOC100764089	100764089	13.99	14.00	15.52	17.29	20.42	20.32	1068.67	1098.96	1217.25	1308.42	1562.83	1508.56
hyaluronidase PH-20-like	LOC100764094	100764094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c, somatic pseudogene	LOC100764096	100764096	4.93	5.15	5.07	3.09	4.82	3.97	37.98	40.26	37.26	19.70	37.26	28.04
metabotropic glutamate receptor 8	LOC100764098	100764098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acylcarnitine hydrolase-like	LOC100764100	100764100	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
putative olfactory receptor 3A4	LOC100764104	100764104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10W1-like	LOC100764105	100764105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin domain-containing protein 9 pseudogene	LOC100764106	100764106	0.07	0.30	0.08	0.00	0.14	0.19	0.76	4.58	1.24	0.00	2.07	2.80

methylcytosine dioxygenase TET2-like	LOC100764108	100764108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2B37-like	LOC100764111	100764111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13A1-like	LOC100764112	100764112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52D1	LOC100764117	100764117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52B6	LOC100764119	100764119	0.00	0.00	0.00	0.05	0.04	0.00	0.00	1.83	0.00	1.16	1.03	0.00
C-C motif chemokine 12-like	LOC100764122	100764122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription initiation factor IIA subunit 2 pseudogene	LOC100764124	100764124	12.07	11.15	10.96	6.15	3.68	5.02	157.98	146.41	137.87	74.17	48.64	62.62
alpha-enolase pseudogene	LOC100764125	100764125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutaredoxin domain-containing cysteine-rich protein 1	LOC100764131	100764131	0.07	0.04	0.05	0.00	0.00	0.00	1.52	1.83	1.24	1.16	0.00	0.00
low molecular weight phosphotyrosine protein phosphatase pseudogene	LOC100764132	100764132	0.12	0.25	0.00	0.00	0.14	0.13	1.52	3.66	0.00	0.00	2.07	1.87
mitochondrial carrier homolog 2 pseudogene	LOC100764136	100764136	3.09	4.00	3.97	4.18	3.48	3.38	58.48	79.61	81.98	78.81	69.34	68.23
ATP-binding cassette sub-family G member 3-like	LOC100764139	100764139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15 pseudogene	LOC100764140	100764140	0.38	1.01	0.93	0.93	0.63	0.47	5.32	13.73	12.42	12.75	8.28	6.54
L-lactate dehydrogenase A chain-like	LOC100764142	100764142	12.39	12.16	10.18	6.70	10.37	8.23	201.28	173.86	145.32	77.65	139.72	103.75
olfactory receptor 2T29-like	LOC100764144	100764144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100764147	LOC100764147	100764147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-lysine N-methyltransferase SETMAR	LOC100764148	100764148	0.67	0.66	0.39	0.58	0.52	0.57	61.52	58.56	34.78	52.15	46.57	53.28
GSK-3-binding protein FRAT2-like	LOC100764150	100764150	0.25	0.00	0.00	0.00	0.00	0.16	1.52	0.00	0.00	0.00	0.00	0.93

ferritin light chain 1	LOC100764157	100764157	0.00	0.15	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
cell differentiation protein RCD1 homolog	LOC100764166	100764166	0.00	0.00	0.00	0.00	0.00	0.05	0.76	3.66	1.24	0.00	0.00	0.93
Ig kappa chain V-IV region-like	LOC100764167	100764167	0.32	0.19	0.26	0.25	0.22	0.40						
olfactory receptor 56	LOC100764168	100764168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2J3	LOC100764171	100764171	13.18	14.53	14.03	16.03	18.13	17.33	782.33	888.50	848.35	943.36	1103.30	1050.57
chromobox protein homolog 3 pseudogene	LOC100764172	100764172	0.50	0.16	0.47	0.22	0.54	0.30	5.32	0.92	3.73	1.16	6.21	1.87
olfactory receptor 11-like	LOC100764173	100764173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial inner membrane protein OXA1L	LOC100764174	100764174	36.35	36.36	33.25	32.38	31.67	34.09	1556.30	1577.52	1440.82	1382.59	1366.18	1466.50
transcription factor BTF3	LOC100764179	100764179	3.32	2.90	2.20	2.20	2.59	1.88	43.29	34.77	22.36	22.02	32.08	19.63
olfactory receptor 7G2-like	LOC100764188	100764188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-related protein 1 pseudogene	LOC100764193	100764193	0.17	0.27	0.37	0.35	0.31	0.07	2.28	3.66	4.97	4.64	4.14	0.93
zinc finger protein 431-like	LOC100764206	100764206	7.30	7.02	7.54	8.40	8.63	8.62	518.77	493.20	537.82	587.57	587.87	600.99
keratin-associated protein 15-1	LOC100764209	100764209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-alpha 1 pseudogene	LOC100764210	100764210	0.05	0.06	0.00	0.00	0.00	0.03	1.52	1.83	0.00	0.00	0.00	0.93
NUT family member Gm806-like	LOC100764212	100764212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains subfamily A member 6D-like	LOC100764213	100764213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2L8-like	LOC100764220	100764220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3a pseudogene	LOC100764221	100764221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100764224	100764224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEST proteolytic signal-containing nuclear protein	LOC100764225	100764225	11.04	9.94	14.01	13.35	11.10	14.97	75.19	65.88	85.70	68.38	45.54	83.19
olfactory receptor 2AG1	LOC100764228	100764228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor GPCRLTM7	LOC100764233	100764233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100764236	100764236	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.93
probable ribosome biogenesis protein RLP24 pseudogene	LOC100764238	100764238	0.00	0.10	0.07	0.00	0.06	0.16	0.00	0.00	0.00	0.00	0.00	0.93
tryptophan--tRNA ligase, cytoplasmic	LOC100764239	100764239	31.61	28.05	34.15	32.44	40.95	37.26	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100764240	LOC100764240	100764240	4.83	3.88	3.22	2.09	3.37	3.09	2.28	1.83	1.24	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC100764241	100764241	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.03	0.00
core histone macro-H2A.2	LOC100764242	100764242	0.03	0.00	0.05	0.00	0.00	0.03	3.04	0.00	1.24	1.16	0.00	0.93
sperm motility kinase X-like	LOC100764243	100764243	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human C3orf62	LOC100764246	100764246	0.24	0.21	0.33	0.25	0.24	0.30	13.67	13.73	21.12	17.38	16.56	17.76
serine protease inhibitor A3N-like	LOC100764251	100764251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
adenosine kinase pseudogene	LOC100764258	100764258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
macrophage erythroblast attacher-like	LOC100764260	100764260	0.00	0.07	0.09	0.04	0.04	0.04	0.76	1.83	2.48	2.32	1.03	0.93
peptidyl-prolyl cis-trans isomerase A-like	LOC100764261	100764261	0.07	0.08	0.11	0.00	0.09	0.00	1.52	0.92	0.00	0.00	1.03	0.00
heterogeneous nuclear ribonucleoprotein H-like	LOC100764265	100764265	0.55	0.60	0.50	0.45	0.20	0.29	25.82	26.54	13.66	15.07	10.35	9.35
40S ribosomal protein S15a pseudogene	LOC100764272	100764272	0.49	2.12	1.49	1.14	0.90	0.16	3.04	11.90	9.94	4.64	5.17	0.93

olfactory receptor 4C12-like	LOC100764274	100764274	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8J3	LOC100764277	100764277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase MARCH2 pseudogene	LOC100764279	100764279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylsulfatase K pseudogene	LOC100764286	100764286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 pseudogene	LOC100764292	100764292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2.32	1.03	0.00
ATP-binding cassette sub-family G member 3-like	LOC100764293	100764293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C8orf59 homolog pseudogene	LOC100764299	100764299	0.81	1.69	0.36	0.00	0.76	0.55	5.32	15.56	2.48	0.00	7.24	3.74
olfactory receptor 51G2	LOC100764300	100764300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4X1	LOC100764302	100764302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2B6	LOC100764308	100764308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf74	LOC100764321	100764321	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	2.07	0.93
chromosome unknown open reading frame, human C17orf49	LOC100764322	100764322	15.28	14.23	15.98	16.02	13.66	17.46	470.15	454.77	480.69	482.11	388.12	470.14
U1 small nuclear ribonucleoprotein A pseudogene	LOC100764323	100764323	1.06	0.84	0.52	0.34	0.43	0.24	1.52	2.75	1.24	0.00	1.03	0.00
eukaryotic translation initiation factor 2 subunit 1 pseudogene	LOC100764326	100764326	0.03	0.00	0.05	0.00	0.04	0.00	0.76	0.00	2.48	0.00	1.03	0.00
attractin-like protein 1	LOC100764329	100764329	5.71	6.63	7.57	8.31	9.88	10.10	261.28	300.13	357.72	389.40	425.38	461.73
TBC1 domain family member 20 pseudogene	LOC100764330	100764330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U11/U12 small nuclear ribonucleoprotein 48 kDa protein pseudogene	LOC100764332	100764332	0.03	0.07	0.10	0.19	0.15	0.04	1.52	1.83	1.24	4.64	3.10	0.93
calcium-activated chloride channel regulator 4-like	LOC100764333	100764333	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00

UBA-like domain-containing protein 1 pseudogene	LOC100764335	100764335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 10-like	LOC100764337	100764337	0.36	0.44	0.61	0.30	1.03	0.00	6.08	4.58	2.48	3.48	6.21	0.00
myocyte-specific enhancer factor 2B-like	LOC100764338	100764338	1.07	0.79	1.67	0.66	0.58	0.82	16.71	10.98	26.08	9.27	9.31	12.15
60S ribosomal protein L7a pseudogene	LOC100764343	100764343	1.86	1.34	1.31	1.08	1.22	1.00	7.60	4.58	3.73	2.32	3.10	8.41
60S ribosomal protein L24 pseudogene	LOC100764347	100764347	0.33	0.80	0.86	0.23	0.13	0.12	2.28	6.41	6.21	1.16	1.03	0.93
mas-related G-protein coupled receptor member B1-like	LOC100764353	100764353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase type IVA 1	LOC100764354	100764354	0.70	0.65	0.94	0.60	1.54	0.96	7.60	5.49	13.66	8.11	15.52	13.09
protein transport protein Sec61 subunit gamma pseudogene	LOC100764356	100764356	1.43	1.00	0.18	0.18	0.62	0.00	9.87	6.41	1.24	1.16	3.10	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4 pseudogene	LOC100764358	100764358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf72	LOC100764363	100764363	7.30	6.27	5.38	5.51	6.52	6.78	717.76	616.73	529.13	540.06	636.52	664.55
seminal vesicle secretory protein 6-like	LOC100764366	100764366	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100764368	100764368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf136	LOC100764372	100764372	39.92	40.13	43.07	41.66	34.52	35.65	1245.64	1289.28	1374.99	1313.06	1120.89	1128.15
60S ribosomal protein L5 pseudogene	LOC100764377	100764377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein slowmo homolog 2-like	LOC100764382	100764382	0.20	0.38	0.13	0.37	0.33	0.25	53.93	47.58	42.23	34.77	27.94	34.58
chromosome unknown open reading frame, human C16orf86	LOC100764389	100764389	0.21	0.18	0.16	0.00	0.14	0.10	7.60	5.49	4.97	2.32	4.14	4.67
mortality factor 4-like protein 1	LOC100764391	100764391	0.92	0.58	0.38	0.50	0.22	0.64	13.67	5.49	1.24	4.64	1.03	8.41
olfactory receptor 9I1	LOC100764398	100764398	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

zinc finger protein 431-like	LOC100764401	100764401	0.29	0.24	0.30	0.32	0.40	0.34	28.86	27.45	32.29	33.61	41.40	33.65
olfactory receptor 1D2	LOC100764404	100764404	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10Q1	LOC100764405	100764405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100764406	100764406	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC100764410	100764410	0.28	0.00	0.00	0.00	0.00	0.00	5.32	3.66	1.24	2.32	4.14	3.74
scavenger receptor cysteine-rich domain-containing protein SCART1-like	LOC100764412	100764412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52J3-like	LOC100764417	100764417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras GTPase-activating protein-binding protein 1 pseudogene	LOC100764418	100764418	14.06	13.50	11.65	8.54	5.92	7.26	666.12	622.22	603.65	438.07	279.45	338.35
olfactory receptor 52H1	LOC100764419	100764419	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 13C3-like	LOC100764423	100764423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC100764425	100764425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin-like protein KIF11	LOC100764426	100764426	0.00	0.03	0.00	0.00	0.14	0.03	0.00	1.83	1.24	0.00	4.14	4.67
isocitrate dehydrogenase [NADP], mitochondrial	LOC100764431	100764431	8.91	9.44	11.54	12.26	8.36	11.53	32.66	40.26	45.96	45.20	17.59	38.32
60S ribosomal protein L18a pseudogene	LOC100764432	100764432	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.32	2.48	0.00	1.03	1.87
cytochrome b ascorbate-dependent protein 3	LOC100764433	100764433	10.28	11.15	10.07	10.52	10.55	11.95	509.65	515.16	478.20	506.45	533.02	640.25
chromosome unknown open reading frame, human C10orf11	LOC100764434	100764434	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
alpha-aminoadipic semialdehyde dehydrogenase pseudogene	LOC100764436	100764436	2.35	1.80	1.70	1.58	1.05	1.27	129.88	93.33	101.85	81.12	52.78	62.62
olfactory receptor 8S1	LOC100764437	100764437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

polyadenylate-binding protein 4 pseudogene	LOC100764444	100764444	0.00	0.02	0.07	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein L2-like	LOC100764446	100764446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 958	LOC100764447	100764447	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1 pseudogene	LOC100764449	100764449	0.89	0.99	1.01	0.96	0.76	0.55	8.35	6.41	8.69	10.43	6.21	4.67
myeloid leukemia factor 2 pseudogene	LOC100764458	100764458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c, testis-specific	LOC100764460	100764460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L33, mitochondrial pseudogene	LOC100764467	100764467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-III region MOPC 63-like	LOC100764468	100764468	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 2M3	LOC100764469	100764469	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2J3-like	LOC100764471	100764471	0.38	0.44	0.42	0.40	0.84	0.73	26.58	32.94	22.36	25.50	52.78	46.73
putative olfactory receptor 2W6	LOC100764473	100764473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100764481	LOC100764481	100764481	11.31	11.71	7.60	7.71	8.64	8.57	521.80	545.36	351.51	348.83	397.43	393.50
olfactory receptor 7G2-like	LOC100764488	100764488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integral membrane protein 2C-like	LOC100764494	100764494	1.76	1.90	1.47	1.32	1.53	1.35	28.86	29.28	21.12	19.70	20.70	18.69
elongation factor 1-alpha 1-like	LOC100764499	100764499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26S protease regulatory subunit 10B pseudogene	LOC100764500	100764500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100764503	100764503	3.02	3.05	3.54	3.78	4.50	1.47	53.17	48.50	39.75	52.15	60.03	38.32
Golgin subfamily A member 2	LOC100764507	100764507	0.13	0.08	0.05	0.16	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00

NUT family member Gm806-like	LOC100764509	100764509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2L13-like	LOC100764516	100764516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1 small nuclear ribonucleoprotein C-like	LOC100764520	100764520	7.39	7.20	8.03	6.85	6.98	8.39	316.73	333.99	376.35	324.50	297.04	357.98
PEST proteolytic signal-containing nuclear protein-like	LOC100764521	100764521	20.59	19.12	24.32	28.80	27.24	27.09	126.08	107.97	155.26	171.52	139.72	157.02
olfactory receptor 2D3-like	LOC100764524	100764524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ornithine decarboxylase pseudogene	LOC100764525	100764525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100764528	LOC100764528	100764528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4K3-like	LOC100764529	100764529	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23-like	LOC100764530	100764530	0.19	0.34	0.21	0.00	0.00	0.00	2.28	4.58	1.24	0.00	1.03	0.00
nucleoporin SEH1 pseudogene	LOC100764532	100764532	0.14	0.05	0.01	0.00	0.02	0.01	0.76	0.00	0.00	0.00	0.00	0.00
MORF4 family-associated protein 1-like	LOC100764537	100764537	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	1.16	0.00	0.93
chromosome unknown open reading frame, human C10orf35	LOC100764539	100764539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic initiation factor 4A-I pseudogene	LOC100764541	100764541	2.96	2.86	1.92	1.64	2.02	1.82	81.27	81.44	53.41	45.20	55.89	49.54
chromosome unknown open reading frame, human C21orf58	LOC100764544	100764544	0.00	0.00	0.06	0.00	0.05	0.00	2.28	4.58	4.97	6.95	5.17	3.74
serine protease inhibitor A3N	LOC100764548	100764548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial fission factor pseudogene	LOC100764551	100764551	0.98	0.84	0.68	0.36	0.61	0.48	20.51	21.05	13.66	16.22	14.49	16.82
protein SET-like	LOC100764554	100764554	0.04	0.14	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 90-like	LOC100764566	100764566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60 kDa heat shock protein, mitochondrial pseudogene	LOC100764571	100764571	1.84	2.09	2.02	1.18	1.38	1.10	77.47	86.01	83.22	49.83	58.99	42.99
phosphoglycerate kinase 1 pseudogene	LOC100764573	100764573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K1	LOC100764574	100764574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S21 pseudogene	LOC100764581	100764581	24.47	27.02	16.72	4.23	2.92	3.46	106.34	120.78	73.28	20.86	13.45	11.22
sperm motility kinase-like	LOC100764588	100764588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 91	LOC100764589	100764589	23.89	23.90	26.89	26.40	27.92	27.31	554.46	567.32	633.46	617.70	657.22	641.18
guanylate-binding protein 6-like	LOC100764590	100764590	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
phospholipase A2	LOC100764593	100764593	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
liver carboxylesterase-like	LOC100764594	100764594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52K1-like	LOC100764599	100764599	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycerol kinase	LOC100764600	100764600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C45-like	LOC100764601	100764601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-protein thioesterase 1 pseudogene	LOC100764608	100764608	0.41	0.14	0.42	0.22	0.33	0.36	3.80	2.75	2.48	1.16	3.10	0.93
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 pseudogene	LOC100764614	100764614	0.00	0.00	0.00	0.00	0.00	0.06	0.76	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 pseudogene	LOC100764615	100764615	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	1.24	0.00	0.00	0.00
triosephosphate isomerase pseudogene	LOC100764617	100764617	0.08	0.20	0.00	0.00	0.12	0.00	0.76	1.83	0.00	0.00	1.03	0.00
saccharopine dehydrogenase-like oxidoreductase	LOC100764621	100764621	0.39	0.39	0.58	0.33	0.16	0.20	12.91	10.98	17.39	10.43	5.17	5.61
OX-2 membrane glycoprotein-like	LOC100764624	100764624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

UDP-N-acetylglucosamine transporter pseudogene	LOC100764626	100764626	0.02	0.00	0.00	0.04	0.07	0.06	0.76	0.00	0.00	1.16	2.07	2.80
protein FAM76A	LOC100764627	100764627	18.76	19.80	22.25	23.10	26.57	28.22	789.16	876.60	945.23	1052.30	1162.29	1208.53
spermatogenesis-associated protein 31D1-like	LOC100764630	100764630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U6 snRNA-associated Sm-like protein LSm2 pseudogene	LOC100764632	100764632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36 pseudogene	LOC100764635	100764635	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.93
eukaryotic translation initiation factor 1	LOC100764637	100764637	9.70	11.22	6.53	4.06	5.76	4.38	34.18	33.86	24.84	11.59	18.63	16.82
chromosome unknown open reading frame, human C17orf96	LOC100764639	100764639	0.49	0.60	0.54	0.33	0.36	0.39	9.87	13.73	13.66	6.95	9.31	6.54
biorientation of chromosomes in cell division protein 1 pseudogene	LOC100764641	100764641	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC100764647	100764647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NF-kappa-B inhibitor alpha pseudogene	LOC100764650	100764650	3.28	3.62	3.18	1.72	2.21	1.71	100.26	114.38	95.64	52.15	67.27	50.47
mas-related G-protein coupled receptor member B4-like	LOC100764651	100764651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced GTP-binding protein Mx1-like	LOC100764653	100764653	0.45	0.34	0.56	0.37	0.22	0.36	26.58	17.39	29.81	22.02	14.49	17.76
putative PRAME family member 24	LOC100764657	100764657	19.79	19.47	21.03	19.99	19.15	19.16	1490.22	1490.59	1603.53	1506.60	1440.70	1464.63
archaemetzincin-2-like	LOC100764659	100764659	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
nuclear transport factor 2 pseudogene	LOC100764660	100764660	0.25	0.46	1.70	0.42	0.72	0.49	1.52	2.75	9.94	2.32	3.10	2.80
uncharacterized protein C9orf114 homolog pseudogene	LOC100764662	100764662	0.13	0.19	0.00	0.04	0.04	0.03	3.80	5.49	0.00	1.16	1.03	0.93
olfactory receptor 10AG1-like	LOC100764665	100764665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S10 pseudogene	LOC100764666	100764666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

death domain-associated protein 6 pseudogene	LOC100764667	100764667	1.58	1.28	1.48	1.00	0.78	0.92	184.57	198.56	177.62	147.18	91.08	106.55
tudor and KH domain-containing protein pseudogene	LOC100764670	100764670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vasculin-like protein 1 pseudogene	LOC100764674	100764674	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.92	0.00	0.00	1.03	0.00
forkhead box protein K2-like	LOC100764677	100764677	0.82	0.81	0.30	0.22	0.42	0.12	42.53	48.50	16.15	12.75	21.73	6.54
gap junction alpha-1 protein-like	LOC100764683	100764683	2.11	2.00	0.73	0.42	0.60	0.78	18.23	15.56	3.73	4.64	2.07	4.67
ATP synthase subunit g, mitochondrial pseudogene	LOC100764687	100764687	1.76	1.97	2.11	1.35	2.02	2.10	16.71	15.56	18.63	11.59	15.52	19.63
high mobility group protein B1 pseudogene	LOC100764688	100764688	1.09	1.17	1.59	1.08	0.85	0.82	3.04	4.58	11.18	5.79	7.24	1.87
melanoma-associated antigen G1	LOC100764696	100764696	25.34	26.16	27.42	25.17	22.15	23.11	1227.42	1265.49	1337.73	1216.87	1065.00	1122.54
60S ribosomal protein L6 pseudogene	LOC100764697	100764697	12.54	11.05	8.75	7.53	9.77	7.17	226.34	208.63	165.20	137.91	186.30	132.72
olfactory receptor 1P1-like	LOC100764700	100764700	0.00	0.02	0.00	0.03	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1S1-like	LOC100764701	100764701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100764702	100764702	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf64	LOC100764703	100764703	24.28	24.75	25.13	26.25	28.88	26.86	1315.52	1353.33	1386.17	1428.95	1563.86	1487.99
40S ribosomal protein S27-like	LOC100764707	100764707	1.63	1.63	2.89	1.75	2.21	0.98	4.56	5.49	8.69	3.48	4.14	3.74
olfactory receptor 52D1	LOC100764715	100764715	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13C3-like	LOC100764719	100764719	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 18-like	LOC100764722	100764722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosome biogenesis regulatory protein homolog	LOC100764724	100764724	2.40	2.02	1.74	0.21	0.19	0.22	30.38	35.69	26.08	2.32	1.03	2.80

putative germ cell-less protein-like 1-like	LOC100764734	100764734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell division cycle-associated 7-like protein pseudogene	LOC100764738	100764738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C9orf40 homolog	LOC100764740	100764740	15.35	16.51	18.60	18.61	21.05	18.99	972.21	1045.88	1194.89	1185.58	1329.96	1214.14
SAP domain-containing ribonucleoprotein-like	LOC100764744	100764744	1.06	0.45	0.10	0.83	0.35	0.16	12.91	5.49	1.24	9.27	4.14	0.93
zinc finger protein 426-like	LOC100764753	100764753	53.01	51.97	60.32	62.29	59.43	61.72	1353.50	1356.99	1532.74	1537.89	1476.93	1507.62
Ig kappa chain V-III region MOPC 321-like	LOC100764764	100764764	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10	LOC100764765	100764765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 kDa protein B-like	LOC100764766	100764766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
cytochrome P450 2J6	LOC100764768	100764768	0.07	0.07	0.05	0.04	0.00	0.03	0.76	1.83	1.24	1.16	0.00	0.93
putative olfactory receptor 2B8	LOC100764770	100764770	0.03	0.04	0.00	0.00	0.00	0.00	1.52	1.83	1.24	0.00	1.03	0.00
protein orai-3 pseudogene	LOC100764773	100764773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen H1	LOC100764776	100764776	16.05	14.40	14.35	12.80	12.36	12.23	698.78	630.46	623.53	549.33	534.05	531.83
nucleophosmin pseudogene	LOC100764778	100764778	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf90	LOC100764781	100764781	0.52	0.31	0.45	0.28	0.00	0.27	16.71	8.24	16.15	8.11	1.03	8.41
olfactory receptor 7G1-like	LOC100764784	100764784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM84A	LOC100764785	100764785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B9 domain-containing protein 1-like	LOC100764790	100764790	0.04	0.08	0.00	0.05	0.00	0.04	2.28	1.83	0.00	3.48	2.07	0.93
deoxycytidylate deaminase pseudogene	LOC100764791	100764791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

histone H1.0-like	LOC100764795	100764795	1.51	1.31	0.98	0.59	0.90	0.61	22.03	19.22	14.91	8.11	12.42	8.41
heat shock protein HSP 90-beta-like	LOC100764796	100764796	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100764798	LOC100764798	100764798	38.15	43.88	48.86	53.84	52.77	43.86	511.17	552.68	611.11	635.09	655.15	562.67
cyclin-G1 pseudogene	LOC100764803	100764803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100764805	100764805	2.41	1.08	1.54	0.82	0.74	1.81	4.56	6.41	4.97	3.48	3.10	4.67
sperm motility kinase 2B-like	LOC100764806	100764806	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
membrane-spanning 4-domains subfamily A member 4A-like	LOC100764807	100764807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proliferating cell nuclear antigen pseudogene	LOC100764808	100764808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ral guanine nucleotide dissociation stimulator-like	LOC100764810	100764810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-like	LOC100764813	100764813	29.75	27.86	20.61	17.11	18.92	16.05	196.72	154.64	116.76	91.55	101.43	96.27
putative claudin-25	LOC100764814	100764814	0.26	0.32	0.54	0.41	0.36	0.53	6.08	9.15	12.42	10.43	9.31	12.15
butyrophilin-like protein 1	LOC100764815	100764815	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100764817	LOC100764817	100764817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 2 oral-like	LOC100764819	100764819	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 5 pseudogene	LOC100764821	100764821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUT family member Gm806-like	LOC100764822	100764822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bcl-2-associated transcription factor 1-like	LOC100764824	100764824	11.49	11.69	10.59	12.05	12.43	11.67	168.62	170.20	135.39	151.82	152.14	145.81
olfactory receptor 4F4-like	LOC100764828	100764828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100764831	100764831	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger and BTB domain-containing protein 34	LOC100764833	100764833	4.59	4.64	8.18	8.28	6.60	6.54	0.00	0.00	0.00	0.00	0.00	0.00
squalene monooxygenase	LOC100764834	100764834	43.85	44.33	48.88	43.59	34.09	32.78	1676.30	1674.51	1861.89	1737.22	1416.90	1304.80
olfactory receptor 481-like	LOC100764836	100764836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box protein J1-like	LOC100764846	100764846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase IMAP family member 1-like	LOC100764847	100764847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease inhibitor A3N	LOC100764848	100764848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100764849	100764849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase FKBP3 pseudogene	LOC100764855	100764855	0.23	0.35	0.48	0.21	0.25	0.00	6.84	2.75	7.45	3.48	2.07	0.93
uncharacterized LOC100764856	LOC100764856	100764856	0.07	0.19	0.00	0.00	0.00	0.00	2.28	5.49	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100764863	100764863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf28	LOC100764864	100764864	2.05	1.70	1.91	1.85	2.46	1.84	72.92	62.22	72.04	66.06	87.97	67.30
cytochrome P450 2G1	LOC100764865	100764865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7B, mitochondrial	LOC100764866	100764866	231.38	230.69	178.92	181.80	188.16	178.64	2242.92	2207.06	1701.66	1668.84	1751.20	1668.39
putative olfactory receptor 4A4	LOC100764867	100764867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 5AK3	LOC100764870	100764870	0.02	0.09	0.00	0.00	0.13	0.00	2.28	3.66	1.24	0.00	5.17	0.00
uncharacterized LOC100764871	LOC100764871	100764871	2.40	2.08	2.48	2.18	2.06	2.10	96.46	82.35	96.88	86.92	78.66	82.25
uncharacterized LOC100764872	LOC100764872	100764872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

platelet-activating factor acetylhydrolase IB subunit beta pseudogene	LOC100764881	100764881	18.15	17.62	14.74	19.02	17.50	19.19	293.18	286.41	245.93	305.95	280.48	301.90
alpha-1-antiproteinase-like	LOC100764882	100764882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 J2-like	LOC100764886	100764886	0.51	0.49	0.71	0.45	0.60	0.33	3.04	4.58	0.00	0.00	1.03	0.93
guanylate-binding protein 6-like	LOC100764887	100764887	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor cell protein 1	LOC100764892	100764892	0.07	0.10	0.06	0.13	0.06	0.21	16.71	17.39	11.18	26.66	21.73	39.26
olfactory receptor 51G2	LOC100764894	100764894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 474	LOC100764895	100764895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C45-like	LOC100764897	100764897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell leukemia/lymphoma protein 1A	LOC100764901	100764901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2H2	LOC100764903	100764903	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
hemoglobin subunit beta-1	LOC100764904	100764904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G2/mitotic-specific cyclin-B1 pseudogene	LOC100764909	100764909	0.10	0.29	0.04	0.00	0.07	0.06	3.04	9.15	1.24	0.00	2.07	1.87
histone H2A-Bbd type 2/3	LOC100764913	100764913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyadenylate-binding protein 1 pseudogene	LOC100764917	100764917	0.15	0.09	0.25	0.00	0.11	0.19	1.52	0.92	2.48	0.00	1.03	1.87
OX-2 membrane glycoprotein	LOC100764921	100764921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C1orf43 homolog	LOC100764923	100764923	0.22	0.07	0.00	0.00	0.08	0.21	7.60	4.58	9.94	6.95	3.10	5.61
glycerol-3-phosphate dehydrogenase 1-like protein pseudogene	LOC100764929	100764929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tRNA (guanine(26)-N(2))-dimethyltransferase pseudogene	LOC100764934	100764934	0.28	0.46	0.23	0.29	0.19	0.15	12.91	24.71	13.66	18.54	10.35	10.28

actin-like protein 6A pseudogene	LOC100764938	100764938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uracil-DNA glycosylase-like	LOC100764939	100764939	0.05	0.07	0.08	0.08	0.04	0.07	3.80	7.32	4.97	4.64	4.14	6.54
mas-related G-protein coupled receptor member X1-like	LOC100764948	100764948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GON-4-like protein	LOC100764952	100764952	8.75	9.42	9.95	11.23	12.19	11.19	1094.50	1213.33	1291.77	1490.37	1607.33	1481.45
UPF0687 protein C20orf27 homolog pseudogene	LOC100764960	100764960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
casein kinase II subunit alpha pseudogene	LOC100764962	100764962	0.39	0.50	0.20	0.49	0.20	0.36	12.15	15.56	7.45	15.07	5.17	12.15
olfactory receptor 10AG1-like	LOC100764963	100764963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trafficking protein particle complex subunit 13-like	LOC100764973	100764973	2.19	2.16	1.55	2.11	2.32	1.57	34.18	35.69	37.26	35.93	39.33	34.58
SCY1-like protein 2	LOC100764975	100764975	9.09	8.54	8.20	10.20	9.55	9.61	231.66	215.03	238.48	267.71	231.84	244.88
60S ribosomal protein L8-like	LOC100764977	100764977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 28 pseudogene	LOC100764979	100764979	0.00	0.09	0.12	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100764980	100764980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3-like	LOC100764983	100764983	67.48	61.21	68.84	38.29	23.80	25.34	1386.92	1287.45	1408.53	770.68	497.83	510.33
olfactory receptor 1468	LOC100764985	100764985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
band 4.1-like protein 5 pseudogene	LOC100764986	100764986	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
60S ribosomal protein L36a-like	LOC100764989	100764989	8.83	9.53	7.76	5.61	8.62	7.19	1.52	0.92	0.00	1.16	4.14	0.00
sorting nexin-4 pseudogene	LOC100764992	100764992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1A1	LOC100764996	100764996	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 9Q2	LOC100764997	100764997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
formyl peptide receptor-related sequence 3	LOC100764999	100764999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUT family member Gm806-like	LOC100765002	100765002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-gamma pseudogene	LOC100765007	100765007	30.83	31.52	32.09	20.37	19.76	19.84	576.49	618.56	580.05	381.28	433.66	409.39
olfactomedin-4	LOC100765008	100765008	0.10	0.05	0.06	0.03	0.13	0.05	3.80	1.83	1.24	3.48	6.21	2.80
olfactory receptor 13C8	LOC100765012	100765012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24	LOC100765015	100765015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanin-concentrating hormone receptor 1	LOC100765019	100765019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pepsin F-like	LOC100765022	100765022	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
keratin, type II cuticular Hb5	LOC100765023	100765023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf82	LOC100765025	100765025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C7orf73	LOC100765027	100765027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3 pseudogene	LOC100765028	100765028	0.39	0.12	0.00	0.05	0.49	0.08	12.15	5.49	2.48	2.32	11.38	2.80
chromosome unknown open reading frame, human C9orf41	LOC100765030	100765030	9.37	9.48	10.67	12.06	12.57	11.65	309.13	335.82	357.72	398.67	403.64	396.30
C-type lectin domain family 2 member E-like	LOC100765032	100765032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
up-regulated during skeletal muscle growth protein 5 pseudogene	LOC100765038	100765038	0.54	0.32	0.00	0.00	0.00	0.00	4.56	2.75	2.48	2.32	1.03	0.00
zinc finger protein OZF-like	LOC100765042	100765042	2.61	2.07	3.14	3.00	3.09	3.01	111.65	93.33	130.42	128.64	126.27	128.05
heat shock cognate 71 kDa protein pseudogene	LOC100765043	100765043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 10	LOC100765053	100765053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2J3	LOC100765057	100765057	4.72	4.78	4.72	5.34	6.02	5.89	556.74	569.15	541.55	633.93	698.62	684.18
OTU domain-containing protein 6B pseudogene	LOC100765058	100765058	0.04	0.00	0.06	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
olfactory receptor 1F12	LOC100765059	100765059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.1-like	LOC100765062	100765062	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF	LOC100765065	100765065	1.14	1.11	1.12	1.43	1.23	1.29	144.31	136.34	131.66	173.84	149.04	153.29
alpha-soluble NSF attachment protein	LOC100765071	100765071	31.57	33.56	35.61	36.13	31.58	31.58	308.37	324.84	353.99	302.48	257.71	272.92
olfactory receptor 7G2-like	LOC100765072	100765072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 21-like	LOC100765079	100765079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
liver carboxylesterase-like	LOC100765081	100765081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 14-like	LOC100765088	100765088	4.12	4.02	4.97	6.15	5.14	5.06	227.10	223.27	281.95	341.88	274.27	275.73
60S ribosomal protein L23-like	LOC100765092	100765092	1.82	2.14	1.63	1.70	1.38	1.26	10.63	15.56	11.18	13.91	13.45	6.54
NADH-cytochrome b5 reductase 2	LOC100765093	100765093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 148	LOC100765094	100765094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf60	LOC100765096	100765096	10.41	10.47	15.92	16.91	21.14	19.14	944.87	949.80	1454.48	1544.84	1896.09	1744.09
lithocholate 6-beta-hydroxylase-like	LOC100765098	100765098	0.03	0.02	0.06	0.08	0.07	0.15	10.63	7.32	6.21	18.54	14.49	18.69
general transcription factor 3C polypeptide 3 pseudogene	LOC100765101	100765101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-17	LOC100765102	100765102	1.67	2.37	1.41	1.34	1.48	1.70	6.84	10.07	4.97	8.11	5.17	4.67

transcription elongation factor 1 homolog	LOC100765103	100765103	2.30	0.40	0.57	1.18	2.41	0.46	5.32	1.83	1.24	2.32	5.17	0.93
Ig heavy chain V-III region VH26-like	LOC100765105	100765105	0.00	0.00	0.00	0.00	0.00	0.00						
cell division cycle 5-like protein pseudogene	LOC100765107	100765107	0.11	0.09	0.02	0.00	0.01	0.08	4.56	4.58	1.24	0.00	0.00	4.67
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100765114	100765114	0.16	0.26	0.24	0.26	0.29	0.26	3.80	6.41	6.21	4.64	6.21	5.61
E3 ubiquitin-protein ligase RNF216 pseudogene	LOC100765117	100765117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
microtubule-associated protein tau	LOC100765120	100765120	3.63	4.52	1.77	1.51	0.94	0.57	55.45	67.71	24.84	24.34	12.42	12.15
serine/arginine-rich splicing factor 3 pseudogene	LOC100765121	100765121	57.69	57.49	56.77	54.62	59.69	55.78	1801.63	1786.15	1776.18	1645.67	1634.24	1528.18
60S ribosomal protein L5 pseudogene	LOC100765123	100765123	3.88	5.33	3.35	2.39	4.01	1.77	66.08	90.59	52.17	39.40	62.10	28.97
transcription elongation factor B polypeptide 1 pseudogene	LOC100765126	100765126	0.40	0.69	0.44	0.57	0.25	0.11	18.99	20.13	22.36	15.07	15.52	12.15
DCN1-like protein 2	LOC100765127	100765127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
POC1 centriolar protein homolog A-like	LOC100765128	100765128	12.67	12.47	16.32	14.85	14.24	13.71	389.64	387.97	500.56	447.34	442.97	420.60
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100765130	100765130	0.51	0.39	0.19	0.36	0.26	0.38	108.61	84.18	69.56	27.81	66.24	39.26
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100765132	100765132	0.19	0.28	0.16	0.02	0.11	0.19	3.04	5.49	2.48	0.00	1.03	3.74
chymotrypsin-like elastase family member 3B	LOC100765144	100765144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100765150	100765150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2B1-like	LOC100765152	100765152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C12-like	LOC100765153	100765153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K3-like	LOC100765155	100765155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

paired mesoderm homeobox protein 1-like	LOC100765166	100765166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
alpha-1-antiproteinase-like	LOC100765168	100765168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
replication protein A 32 kDa subunit pseudogene	LOC100765171	100765171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carbonic anhydrase-related protein	LOC100765172	100765172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2B4-like	LOC100765175	100765175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2-like	LOC100765177	100765177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C15orf39	LOC100765178	100765178	14.64	14.35	14.10	10.57	6.94	7.60	1557.81	1523.53	1524.04	1160.08	750.37	852.42
olfactory receptor 51G2-like	LOC100765180	100765180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C5-like	LOC100765183	100765183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone deacetylase 8	LOC100765184	100765184	9.30	9.30	11.15	10.55	13.30	11.55	160.26	171.11	198.73	184.27	207.00	219.65
60S ribosomal protein L4-like	LOC100765186	100765186	7.82	9.12	9.28	6.90	7.80	5.96	189.13	236.99	224.82	157.61	195.61	143.00
histone H3.3-like	LOC100765188	100765188	0.44	0.10	0.61	0.46	0.20	0.40	3.04	0.92	4.97	2.32	1.03	0.93
SH3 domain-binding protein 5-like pseudogene	LOC100765190	100765190	1.16	1.11	1.06	1.50	1.36	1.13	35.70	32.94	36.02	48.67	42.43	37.39
olfactory receptor 52A5-like	LOC100765191	100765191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERV-K_6q14.1 provirus ancestral Gag-Pol polyprotein-like	LOC100765194	100765194	0.73	0.69	0.64	0.51	0.59	0.55	49.37	43.92	111.79	84.60	74.52	84.12
60S ribosomal protein L26-like	LOC100765195	100765195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S10 pseudogene	LOC100765205	100765205	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
DET1- and DDB1-associated protein 1	LOC100765207	100765207	1.48	3.28	0.74	1.61	1.50	1.16	3.04	10.98	1.24	5.79	6.21	4.67

uncharacterized LOC100765209	LOC100765209	100765209	28.88	28.49	31.49	33.63	33.93	38.91	431.42	439.22	566.39	596.84	563.03	615.01
cathepsin L1-like	LOC100765210	100765210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L39 pseudogene	LOC100765211	100765211	104.70	158.58	125.48	115.97	140.95	95.01	76.71	122.61	86.95	103.14	97.29	81.32
40S ribosomal protein SA pseudogene	LOC100765212	100765212	0.81	0.49	0.38	0.65	0.46	1.12	18.23	10.98	8.69	13.91	10.35	25.24
triggering receptor expressed on myeloid cells 1-like	LOC100765213	100765213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A3-like	LOC100765215	100765215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 25 member 51	LOC100765224	100765224	18.56	18.66	17.48	18.15	20.97	20.50	477.75	482.22	455.85	475.16	528.88	529.02
60S ribosomal protein L38 pseudogene	LOC100765230	100765230	1.51	0.92	0.37	0.56	0.47	0.58	3.80	2.75	1.24	2.32	1.03	1.87
transcription factor BTF3 pseudogene	LOC100765233	100765233	0.95	1.18	0.55	0.69	0.56	0.21	9.11	13.73	6.21	8.11	5.17	0.93
synaptotagmin-11 pseudogene	LOC100765238	100765238	0.98	0.65	0.57	0.70	0.99	0.68	10.63	10.07	4.97	10.43	14.49	14.02
40S ribosomal protein S18-like	LOC100765240	100765240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wee1-like protein kinase 2 pseudogene	LOC100765243	100765243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf165	LOC100765244	100765244	0.05	0.04	0.02	0.02	0.00	0.00	3.04	2.75	1.24	1.16	0.00	0.00
antigen-presenting glycoprotein CD1d1-like	LOC100765246	100765246	2.16	2.32	1.98	2.10	1.55	1.81	48.61	48.50	36.02	42.88	37.26	34.58
polypeptide N-acetylgalactosaminyltransferase 4	LOC100765247	100765247	2.10	2.37	2.14	2.02	2.33	2.55	205.84	230.59	209.91	194.70	226.66	251.43
olfactory receptor 10AG1-like	LOC100765250	100765250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100765254	100765254	0.19	0.64	0.00	0.00	0.40	0.12	1.52	5.49	0.00	0.00	3.10	0.93
60S ribosomal protein L4 pseudogene	LOC100765256	100765256	0.55	0.57	0.58	0.46	0.69	0.41	15.95	19.22	19.87	15.07	20.70	13.09

melanoma-associated antigen E1	LOC100765259	100765259	3.52	3.80	4.43	3.94	4.92	5.12	224.06	241.57	283.20	250.33	310.50	325.27
spermine synthase pseudogene	LOC100765261	100765261	0.63	0.46	0.91	0.54	0.34	0.23	13.67	15.56	23.60	11.59	6.21	3.74
EGF-like and EMI domain-containing protein 1	LOC100765263	100765263	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
protein BEX2	LOC100765265	100765265	0.06	0.00	0.00	0.29	0.25	0.08	0.00	0.00	0.00	2.32	1.03	0.00
nuclear receptor-binding factor 2-like	LOC100765266	100765266	0.04	0.03	0.06	0.05	0.10	0.03	0.00	0.00	1.24	0.00	1.03	0.00
interferon alpha-9	LOC100765269	100765269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1468	LOC100765271	100765271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5 pseudogene	LOC100765275	100765275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1468-like	LOC100765282	100765282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9Q1	LOC100765283	100765283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protection of telomeres protein 1-like	LOC100765285	100765285	8.27	8.34	7.69	8.64	10.30	8.83	828.66	825.36	808.60	880.78	1031.88	904.76
zinc finger protein 431-like	LOC100765287	100765287	1.80	1.47	2.22	2.25	2.34	1.96	151.15	127.19	183.83	187.75	190.44	170.11
zinc finger protein 883-like	LOC100765289	100765289	2.72	2.46	4.03	3.95	3.86	4.09	166.34	149.15	255.87	239.90	226.66	246.75
oligosaccharyltransferase complex subunit OSTC	LOC100765294	100765294	0.07	0.09	0.18	0.06	0.20	0.09	0.76	0.92	1.24	0.00	2.07	0.93
chromosome unknown open reading frame, human C6orf58	LOC100765295	100765295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testin-2-like	LOC100765299	100765299	15.63	16.62	7.18	10.68	27.10	25.60	628.14	665.23	291.89	411.42	1072.25	1007.57
B-cell receptor-associated protein 31 pseudogene	LOC100765300	100765300	0.30	0.31	0.11	0.29	0.22	0.26	7.60	6.41	7.45	9.27	8.28	11.22
olfactory receptor 13C8-like	LOC100765301	100765301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 18-like	LOC100765303	100765303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf131	LOC100765311	100765311	30.23	33.63	37.06	41.62	37.84	38.10	1036.77	1163.01	1275.62	1391.86	1274.07	1281.43
transcriptional adapter 3 pseudogene	LOC100765315	100765315	3.35	3.29	3.03	2.76	2.64	2.72	47.09	43.92	37.26	42.88	37.26	33.65
A-kinase anchor protein 9-like	LOC100765321	100765321	0.00	0.02	0.00	0.00	0.05	0.04	0.00	0.00	1.24	0.00	2.07	1.87
40S ribosomal protein S2 pseudogene	LOC100765322	100765322	0.05	0.00	0.09	0.08	0.07	0.00	2.28	0.00	2.48	4.64	2.07	0.93
60 kDa heat shock protein, mitochondrial pseudogene	LOC100765326	100765326	0.09	0.08	0.16	0.07	0.10	0.12	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC100765327	100765327	0.58	0.74	0.53	0.51	0.09	0.73	7.60	8.24	4.97	9.27	1.03	4.67
chromosome unknown open reading frame, human C15orf41	LOC100765329	100765329	14.81	13.68	14.72	17.09	16.72	16.85	985.12	950.72	999.88	1148.49	1138.48	1117.86
40S ribosomal protein S27-like pseudogene	LOC100765331	100765331	0.95	0.46	1.30	0.32	0.82	1.65	5.32	1.83	4.97	1.16	3.10	5.61
PRAME family member 12 pseudogene	LOC100765332	100765332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 709-like	LOC100765341	100765341	0.00	0.00	0.00	0.02	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 10	LOC100765345	100765345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 kDa protein B-like	LOC100765346	100765346	0.15	0.27	0.00	0.00	0.00	0.00	3.04	3.66	0.00	0.00	0.00	1.87
39S ribosomal protein L18, mitochondrial pseudogene	LOC100765347	100765347	0.18	0.17	0.47	0.00	0.30	0.49	2.28	1.83	4.97	0.00	3.10	5.61
RNA-binding protein EWS-like	LOC100765349	100765349	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein with KRAB and SCAN domains 3	LOC100765350	100765350	8.98	8.96	10.30	11.07	11.05	11.27	688.14	700.00	789.97	828.63	844.55	862.70
LIM domain-containing protein ajuba	LOC100765353	100765353	15.12	15.19	7.87	6.08	4.41	5.87	412.43	427.32	197.49	147.18	105.57	106.55
cysteine-rich protein 2 pseudogene	LOC100765355	100765355	0.00	0.06	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C16orf46	LOC100765361	100765361	3.68	4.10	3.09	3.01	2.43	2.48	251.41	285.49	218.61	209.76	165.60	171.98
olfactory receptor 7G2-like	LOC100765363	100765363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oligophrenin-1	LOC100765371	100765371	12.27	12.13	12.42	14.05	17.78	17.69	440.53	430.98	433.49	496.02	598.22	607.54
DNA-directed RNA polymerase III subunit RPC10	LOC100765374	100765374	29.43	28.22	25.25	26.15	33.69	34.18	1604.15	1558.30	1389.90	1437.06	1827.79	1847.84
leucine-rich repeat neuronal protein 4-like	LOC100765376	100765376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 481-like	LOC100765382	100765382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 10D4	LOC100765383	100765383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 9-like	LOC100765386	100765386	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
dynein assembly factor 3, axonemal-like	LOC100765387	100765387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100765388	LOC100765388	100765388	0.37	0.48	0.73	0.61	0.70	0.45	16.71	25.62	39.75	32.45	35.19	25.24
COBW domain-containing protein 1	LOC100765393	100765393	28.08	27.82	25.88	28.00	29.72	31.26	668.39	646.01	555.21	609.59	725.53	708.48
Ig kappa chain V-I region HK102-like	LOC100765397	100765397	0.00	0.00	0.00	0.00	0.39	0.18						
N-lysine methyltransferase SETD8 pseudogene	LOC100765401	100765401	0.13	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100765406	100765406	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase ERas-like	LOC100765408	100765408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uncharacterized protein ENSP00000382514-like	LOC100765409	100765409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 2 pseudogene	LOC100765422	100765422	1.55	1.98	2.00	0.94	1.24	0.96	49.37	64.97	62.10	26.66	41.40	30.84
eukaryotic translation initiation factor 5A-1-like	LOC100765428	100765428	0.00	0.11	0.07	0.00	0.00	0.11	0.76	1.83	0.00	1.16	0.00	0.93

protein jagunal homolog 1 pseudogene	LOC100765429	100765429	0.11	0.07	0.09	0.00	0.00	0.00	2.28	1.83	3.73	1.16	0.00	0.00
protein FAM229B pseudogene	LOC100765432	100765432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mRNA turnover protein 4 homolog pseudogene	LOC100765435	100765435	0.17	0.15	0.23	0.12	0.11	0.09	3.04	2.75	4.97	2.32	3.10	1.87
putative vomeronasal receptor-like protein 4	LOC100765439	100765439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S21 pseudogene	LOC100765440	100765440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2B1	LOC100765441	100765441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fibronectin type III domain containing protein 3C1	LOC100765442	100765442	0.00	0.02	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	0.00	0.00
olfactory receptor 4C12-like	LOC100765444	100765444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K5-like	LOC100765446	100765446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 18 pseudogene	LOC100765452	100765452	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase theta-1	LOC100765453	100765453	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
rhox homeobox family member 1-like	LOC100765456	100765456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-1-antiproteinase-like	LOC100765458	100765458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCCH domain-containing protein 15 pseudogene	LOC100765461	100765461	0.21	0.17	0.19	0.07	0.13	0.09	10.63	13.73	6.21	4.64	3.10	2.80
chromosome unknown open reading frame, human C3orf67	LOC100765462	100765462	36.11	33.00	35.80	35.25	51.11	40.73	1066.39	1114.51	987.46	1059.25	1332.03	1254.33
thyroid transcription factor 1-associated protein 26	LOC100765463	100765463	38.02	42.07	40.83	38.76	44.55	39.10	1418.82	1569.28	1560.06	1522.82	1668.40	1476.78
carboxylesterase 1C-like	LOC100765464	100765464	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2-like	LOC100765466	100765466	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial pseudogene	LOC100765467	100765467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51G2	LOC100765470	100765470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 140-like	LOC100765473	100765473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2G3-like	LOC100765479	100765479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52Z1	LOC100765480	100765480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metal transporter CNNM2	LOC100765482	100765482	7.66	7.28	7.49	8.01	7.82	8.14	406.35	395.29	416.10	421.85	432.62	454.25
aldehyde oxidase 1	LOC100765484	100765484	1.26	1.70	1.73	1.78	1.55	1.77	91.90	115.29	113.03	130.96	121.09	122.44
centromere protein S-like	LOC100765487	100765487	58.91	63.22	65.71	68.11	71.60	69.52	1081.58	1153.86	1242.09	1207.59	1258.54	1260.87
60S ribosomal protein L36 pseudogene	LOC100765491	100765491	66.88	67.45	63.36	19.65	9.57	9.71	279.51	290.98	250.90	69.54	36.22	37.39
thymosin beta-4 pseudogene	LOC100765498	100765498	364.65	350.95	383.81	396.93	418.85	421.47	3238.68	3403.01	3723.78	3511.53	4214.46	3652.69
nuclear factor erythroid 2-related factor 1-like	LOC100765501	100765501	0.16	0.07	0.05	0.04	0.04	0.14	3.80	1.83	1.24	1.16	1.03	3.74
chromosome unknown open reading frame, human C5orf15	LOC100765503	100765503	49.66	51.25	52.72	55.10	57.04	56.23	3076.13	3187.98	3297.74	3423.45	3506.53	3504.08
Ig kappa chain V-III region MOPC 63-like	LOC100765504	100765504	0.00	0.00	0.00	0.00	0.00	0.00						
vomeronasal type-1 receptor 4-like	LOC100765507	100765507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
netrin-G2 pseudogene	LOC100765510	100765510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf98	LOC100765515	100765515	0.00	0.09	0.12	0.00	0.00	0.00	1.52	4.58	1.24	1.16	2.07	0.00
uroplakin-3b-like protein	LOC100765519	100765519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L11-like	LOC100765520	100765520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

40S ribosomal protein S3 pseudogene	LOC100765523	100765523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5-like	LOC100765527	100765527	0.87	1.13	0.71	0.45	0.89	0.85	11.39	17.39	9.94	10.43	15.52	14.95
60S ribosomal protein L29 pseudogene	LOC100765528	100765528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L32 pseudogene	LOC100765534	100765534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-terminal-binding protein 2 pseudogene	LOC100765536	100765536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1	LOC100765541	100765541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf87	LOC100765542	100765542	0.18	0.15	0.05	0.00	0.00	0.00	23.55	20.13	7.45	2.32	1.03	0.00
cyclin-dependent kinase 4 pseudogene	LOC100765543	100765543	0.38	0.37	0.31	0.00	0.05	0.21	8.35	7.32	7.45	0.00	1.03	4.67
ribosome biogenesis protein NSA2 homolog pseudogene	LOC100765545	100765545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoglycerate kinase 1 pseudogene	LOC100765548	100765548	20.00	20.98	19.81	18.24	20.88	19.16	260.52	269.02	249.66	177.31	229.77	207.50
trafficking protein particle complex subunit 13-like	LOC100765552	100765552	1.52	1.33	0.85	1.52	0.93	1.11	15.19	20.13	12.42	20.86	18.63	16.82
60S ribosomal protein L31 pseudogene	LOC100765554	100765554	0.00	0.00	0.00	0.00	0.15	0.14	0.00	0.00	0.00	0.00	1.03	0.93
olfactory receptor 1468	LOC100765565	100765565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein inscuteable homolog	LOC100765569	100765569	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
liver carboxylesterase-like	LOC100765571	100765571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
frizzled-3-like	LOC100765572	100765572	0.24	0.46	0.22	0.29	0.29	0.20	2.28	2.75	0.00	0.00	0.00	0.93
GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase-like	LOC100765573	100765573	0.06	0.04	0.11	0.03	0.02	0.01	3.04	0.92	3.73	1.16	1.03	0.00
chromosome unknown open reading frame, human C2orf61	LOC100765575	100765575	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00

olfactory receptor 1468-like	LOC100765576	100765576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable tRNA pseudouridine synthase 1 pseudogene	LOC100765577	100765577	0.33	0.29	0.42	0.13	0.08	0.16	8.35	6.41	11.18	3.48	2.07	3.74
EGF-like module-containing mucin-like hormone receptor-like 4	LOC100765579	100765579	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100765583	100765583	14.34	17.07	12.72	7.62	15.89	8.08	125.32	148.24	109.30	63.74	140.76	72.90
uncharacterized LOC100765584	LOC100765584	100765584	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S25	LOC100765587	100765587	3.28	3.93	2.48	2.71	2.75	2.47	25.06	28.37	18.63	20.86	20.70	26.17
cytochrome b-c1 complex subunit 6, mitochondrial	LOC100765588	100765588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box protein B2	LOC100765591	100765591	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin L1-like	LOC100765592	100765592	0.00	0.00	0.00	0.00	0.04	0.00	1.52	1.83	0.00	0.00	1.03	0.00
olfactory receptor 13C8-like	LOC100765594	100765594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 18 member A-like	LOC100765595	100765595	0.04	0.02	0.00	0.00	0.03	0.02	2.28	1.83	0.00	1.16	4.14	3.74
olfactory receptor 7E24-like	LOC100765597	100765597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-3 chain	LOC100765599	100765599	0.51	0.36	0.14	0.22	0.17	0.06	16.71	11.90	3.73	8.11	5.17	2.80
elongation factor Tu, mitochondrial-like	LOC100765606	100765606	0.10	0.07	0.14	0.03	0.21	0.16	7.60	2.75	7.45	2.32	11.38	8.41
eukaryotic translation initiation factor 1A, X-chromosomal-like	LOC100765607	100765607	0.00	0.04	0.12	0.00	0.00	0.05	0.76	0.00	1.24	1.16	1.03	0.93
nucleophosmin pseudogene	LOC100765609	100765609	0.24	0.48	0.20	0.13	0.29	0.44	6.84	4.58	6.21	4.64	8.28	8.41
olfactory receptor 2AG1	LOC100765613	100765613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig lambda chain V-VI region WLT-like	LOC100765616	100765616	0.00	0.00	0.00	0.00	0.00	0.00						

zinc finger protein OZF-like	LOC100765623	100765623	14.88	14.83	16.48	16.99	20.09	18.61	1182.60	1207.84	1343.94	1369.84	1619.75	1481.45
rhox homeobox family member 2-like	LOC100765625	100765625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor A protein 1 pseudogene	LOC100765626	100765626	30.65	31.73	39.96	40.02	40.35	37.78	664.60	662.48	822.26	791.54	780.38	732.78
nucleoside diphosphate kinase B	LOC100765627	100765627	972.94	973.56	454.36	411.15	369.58	391.22	15616.89	15913.35	7319.62	6398.40	5816.62	6056.66
olfactory receptor 2G3-like	LOC100765633	100765633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolyl-tRNA synthetase associated domain-containing protein 1	LOC100765635	100765635	22.94	22.72	23.76	22.06	23.64	24.66	305.33	299.22	311.76	273.51	301.18	320.59
olfactory receptor 2Y1-like	LOC100765636	100765636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100765638	LOC100765638	100765638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100765640	LOC100765640	100765640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein with KRAB and SCAN domains 8	LOC100765641	100765641	8.00	7.99	9.90	10.57	10.61	9.88	501.30	495.03	594.96	665.22	683.09	621.56
chromosome unknown open reading frame, human C14orf93	LOC100765644	100765644	2.01	2.12	1.67	1.56	1.86	1.88	156.47	163.79	125.45	125.16	145.93	145.81
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100765649	100765649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
butyrophilin subfamily 1 member A1-like	LOC100765650	100765650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100765654	100765654	70.13	66.55	62.07	52.25	46.35	49.19	2586.23	2429.41	2279.23	1401.13	1084.67	1088.89
triosephosphate isomerase pseudogene	LOC100765655	100765655	1.00	1.58	1.68	0.89	1.30	0.68	15.19	20.13	23.60	12.75	18.63	11.22
chromosome unknown open reading frame, human C1orf233	LOC100765659	100765659	3.70	3.33	5.22	4.05	4.11	5.28	231.66	206.80	325.43	250.33	251.50	330.87
protein FAM24A	LOC100765661	100765661	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
heat shock cognate protein HSP 90-beta pseudogene	LOC100765670	100765670	1.71	1.32	0.81	0.59	0.90	0.92	76.71	53.07	28.57	20.86	27.94	39.26

olfactory receptor 469	LOC100765672	100765672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 10D4	LOC100765674	100765674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement factor H-like	LOC100765684	100765684	0.03	0.03	0.02	0.02	0.00	0.00	0.76	2.75	0.00	2.32	2.07	0.00
transcriptional enhancer factor TEF-4 pseudogene	LOC100765685	100765685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
importin subunit alpha-5	LOC100765686	100765686	22.25	22.06	21.23	25.33	25.42	25.46	1297.29	1267.32	1304.19	1493.85	1487.28	1504.82
Ig kappa chain V-I region HK102-like	LOC100765688	100765688	0.00	0.00	0.00	0.00	0.00	0.00						
RNA-binding protein PNO1 pseudogene	LOC100765689	100765689	0.61	0.45	0.29	0.24	0.25	0.35	16.71	11.90	8.69	6.95	6.21	13.09
26S proteasome non-ATPase regulatory subunit 10 pseudogene	LOC100765690	100765690	0.28	0.22	0.00	0.00	0.13	0.12	2.28	1.83	1.24	0.00	1.03	2.80
40S ribosomal protein S8 pseudogene	LOC100765692	100765692	48.86	48.70	45.02	34.48	36.16	32.31	193.68	164.71	162.71	117.05	134.55	123.38
60S ribosomal protein L29 pseudogene	LOC100765693	100765693	250.35	281.18	257.16	153.92	88.14	78.61	200.52	184.84	147.81	89.24	101.43	88.79
putative tripartite motif-containing protein 43C	LOC100765698	100765698	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC100765709	LOC100765709	100765709	4.69	4.95	4.23	4.78	5.34	4.91	794.48	790.59	709.23	878.46	854.90	884.20
tubulin alpha-1C chain-like	LOC100765713	100765713	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
60S ribosomal protein L23a pseudogene	LOC100765714	100765714	25.14	24.56	19.89	14.30	17.68	13.87	37.98	57.65	53.41	39.40	33.12	17.76
pre-mRNA branch site protein p14-like	LOC100765717	100765717	1.13	1.60	0.63	0.41	0.89	0.49	6.84	9.15	3.73	2.32	4.14	2.80
opioid growth factor receptor-like	LOC100765718	100765718	16.26	16.55	15.14	13.31	9.53	10.85	605.35	585.62	541.55	494.86	349.83	422.47
poly(A) RNA polymerase, mitochondrial-like	LOC100765719	100765719	4.41	4.17	4.26	4.82	4.52	4.05	105.58	99.74	88.19	86.92	72.45	73.84
40S ribosomal protein S29 pseudogene	LOC100765721	100765721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00

vomeronasal type-1 receptor 90-like	LOC100765728	100765728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a pseudogene	LOC100765731	100765731	11.52	12.44	7.72	6.80	7.95	7.47	53.17	51.24	34.78	26.66	41.40	45.80
olfactory receptor 4A5	LOC100765732	100765732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain 1 pseudogene	LOC100765736	100765736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase theta-4	LOC100765742	100765742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC100765743	100765743	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein BTG1-like	LOC100765745	100765745	1.87	2.58	2.37	0.57	1.00	0.45	15.95	21.96	19.87	4.64	8.28	3.74
histone H3.3-like	LOC100765746	100765746	0.05	0.11	0.15	0.19	0.06	0.35	0.00	0.00	1.24	0.00	0.00	2.80
ring finger protein 26-like	LOC100765749	100765749	0.05	0.16	0.02	0.04	0.05	0.07	1.52	4.58	0.00	1.16	1.03	1.87
ATP synthase F(0) complex subunit C1, mitochondrial pseudogene	LOC100765750	100765750	0.30	0.61	0.00	0.16	0.14	0.00	1.52	3.66	0.00	1.16	1.03	0.00
calcium-binding and coiled-coil domain-containing protein 2 pseudogene	LOC100765752	100765752	0.00	0.05	0.00	0.07	0.06	0.00	0.00	0.92	0.00	1.16	1.03	0.00
carboxylesterase 1D	LOC100765753	100765753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2	LOC100765755	100765755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 5A, mitochondrial	LOC100765757	100765757	348.66	361.57	499.05	496.11	518.50	531.46	5151.95	5337.39	7292.29	7006.83	7499.51	7527.83
olfactory receptor 51G2-like	LOC100765759	100765759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 1 pseudogene	LOC100765760	100765760	1.18	1.02	0.43	0.74	0.64	0.92	28.10	27.45	11.18	19.70	14.49	27.11
olfactory receptor 4C45-like	LOC100765762	100765762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear RNA export factor 2-like	LOC100765765	100765765	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00

probable ribosome biogenesis protein RLP24 pseudogene	LOC100765767	100765767	2.32	2.86	1.79	1.32	2.38	1.32	23.55	24.71	17.39	13.91	21.73	14.02
olfactory receptor 14J1-like	LOC100765770	100765770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52A5	LOC100765771	100765771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde oxidase 1	LOC100765774	100765774	0.50	0.39	0.62	0.42	0.59	0.33	6.84	4.58	9.94	5.79	6.21	3.74
caspase-3 pseudogene	LOC100765779	100765779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerase II subunit RPB7	LOC100765781	100765781	0.42	0.54	0.45	0.33	0.54	0.53	4.56	9.15	8.69	4.64	5.17	5.61
E3 ubiquitin-protein ligase TRIM9	LOC100765785	100765785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100765794	100765794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate cyclase activator 2B	LOC100765796	100765796	0.00	0.11	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermine synthase pseudogene	LOC100765797	100765797	0.54	0.62	0.70	0.44	0.68	0.54	4.56	8.24	8.69	4.64	7.24	5.61
peptidyl-prolyl cis-trans isomerase A-like	LOC100765799	100765799	5.22	5.76	4.44	2.76	3.89	2.66	15.19	10.07	11.18	4.64	7.24	3.74
60S ribosomal protein L6 pseudogene	LOC100765801	100765801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stimulated by retinoic acid gene 6 protein homolog	LOC100765804	100765804	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
male-specific lethal 3 homolog	LOC100765805	100765805	14.56	14.98	8.18	7.89	7.24	7.74	917.52	949.80	524.16	505.29	460.57	494.44
granzyme B	LOC100765811	100765811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysine-rich nucleolar protein 1-like	LOC100765816	100765816	0.03	0.00	0.05	0.05	0.00	0.08	0.76	0.00	2.48	1.16	1.03	3.74
chromosome unknown open reading frame, human C5orf51	LOC100765818	100765818	19.80	20.56	17.16	18.79	22.79	22.63	1948.98	2024.05	1751.34	1875.13	2245.92	2202.08
tropomyosin alpha-3 chain pseudogene	LOC100765821	100765821	0.11	0.00	0.18	0.00	0.20	0.00	0.76	0.00	1.24	0.00	2.07	0.00

40S ribosomal protein S9 pseudogene	LOC100765824	100765824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100765827	100765827	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human CXorf58	LOC100765828	100765828	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
H/ACA ribonucleoprotein complex subunit 4-like	LOC100765830	100765830	0.02	0.00	0.03	0.00	0.00	0.02	0.76	0.00	1.24	0.00	0.00	0.93
zinc finger CCHC domain-containing protein 3-like	LOC100765833	100765833	16.01	15.23	15.00	13.17	11.12	11.81	1381.60	1305.75	1290.53	1127.63	968.75	1032.81
melanoma-associated antigen E2	LOC100765836	100765836	0.65	0.57	1.83	1.58	2.05	1.85	33.42	29.28	93.16	78.81	100.39	92.53
uncharacterized LOC100765838	LOC100765838	100765838	3.92	3.48	3.25	2.82	4.08	3.61	200.52	180.26	180.10	155.30	210.10	203.76
60S ribosomal protein L38-like	LOC100765839	100765839	31.10	15.46	23.53	12.44	20.93	18.23	95.70	56.73	72.04	37.09	49.68	44.86
7,8-dihydro-8-oxoguanine triphosphatase pseudogene	LOC100765843	100765843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15-like	LOC100765844	100765844	0.34	0.31	0.28	0.09	0.24	0.21	6.84	6.41	3.73	1.16	6.21	3.74
interferon alpha-12	LOC100765849	100765849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1468-like	LOC100765851	100765851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1 small nuclear ribonucleoprotein C pseudogene	LOC100765852	100765852	0.67	0.43	0.26	0.18	0.27	0.59	18.23	10.07	16.15	4.64	10.35	20.56
vomeronasal type-1 receptor 1-like	LOC100765853	100765853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
exocrine gland-secreted peptide 22-like	LOC100765857	100765857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich PDZ-binding protein pseudogene	LOC100765859	100765859	0.18	0.43	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.00
olfactory receptor-like protein DTMT	LOC100765863	100765863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B12-like	LOC100765864	100765864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

vomeronasal type-2 receptor 116-like	LOC100765866	100765866	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
nucleolar and coiled-body phosphoprotein 1 pseudogene	LOC100765867	100765867	1.57	1.54	1.37	1.12	1.27	1.28	54.69	53.99	49.68	37.09	43.47	42.06
zinc finger protein 850-like	LOC100765869	100765869	1.01	0.90	0.95	1.23	1.57	1.30	162.54	146.41	163.96	198.18	264.96	216.84
beta-actin-like protein 2	LOC100765872	100765872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetyllactosaminide alpha-1,3-galactosyltransferase-like	LOC100765880	100765880	0.00	0.00	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.00	1.03	0.93
olfactory receptor 7E24-like	LOC100765883	100765883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stathmin domain-containing protein 1-like	LOC100765884	100765884	0.02	0.09	0.00	0.00	0.03	0.00	1.52	0.92	0.00	0.00	0.00	0.93
cytochrome P450 2E1	LOC100765891	100765891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
malignant fibrous histiocytoma-amplified sequence 1 homolog	LOC100765894	100765894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serum amyloid A-3 protein	LOC100765897	100765897	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.03	0.93
signal-regulatory protein beta-1 isoform 3-like	LOC100765898	100765898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AG1-like	LOC100765900	100765900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig lambda chain V-VI region WLT-like	LOC100765903	100765903	0.00	0.00	0.00	0.00	0.00	0.00						
ras-related protein Rab-1A pseudogene	LOC100765911	100765911	0.16	0.77	0.27	0.13	0.39	0.36	1.52	7.32	2.48	1.16	3.10	2.80
homeobox protein Rhox5-like	LOC100765912	100765912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100765913	100765913	4.74	4.64	4.12	3.54	4.25	2.61	60.00	56.73	65.83	42.88	55.89	45.80
vomeronasal type-2 receptor 116-like	LOC100765915	100765915	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100765920	100765920	17.92	14.26	8.86	6.71	11.70	7.73	139.76	110.72	67.07	50.99	87.97	57.95

putative olfactory receptor 2W6	LOC100765921	100765921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prefoldin subunit 3-like	LOC100765923	100765923	0.25	0.25	0.10	0.00	0.20	0.10	3.80	3.66	1.24	0.00	3.10	1.87
olfactory receptor 10	LOC100765925	100765925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
death domain-containing membrane protein NRADD	LOC100765926	100765926	0.17	0.30	0.13	0.51	0.08	0.07	8.35	12.81	8.69	22.02	6.21	3.74
type-1 angiotensin II receptor-like	LOC100765929	100765929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ferritin heavy chain pseudogene	LOC100765930	100765930	0.88	0.93	0.94	0.75	0.79	0.80	12.91	16.47	13.66	16.22	12.42	14.02
60S ribosomal protein L34 pseudogene	LOC100765937	100765937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361	LOC100765941	100765941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
putative gustatory receptor clone PTE38	LOC100765944	100765944	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase type IVA 1 pseudogene	LOC100765945	100765945	0.48	0.47	0.55	0.68	0.53	0.60	15.95	15.56	18.63	20.86	20.70	19.63
cystatin-14	LOC100765948	100765948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf88	LOC100765951	100765951	6.09	6.23	6.70	6.84	7.44	7.32	576.49	597.52	655.82	664.06	714.14	706.61
olfactory receptor 481-like	LOC100765962	100765962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 149-like	LOC100765963	100765963	0.04	0.03	0.03	0.00	0.03	0.00	2.28	0.92	1.24	0.00	2.07	0.00
MKI67 FHA domain-interacting nucleolar phosphoprotein pseudogene	LOC100765964	100765964	2.14	2.27	1.48	0.94	1.78	1.39	39.50	40.26	28.57	18.54	33.12	22.43
interferon-induced guanylate-binding protein 2	LOC100765968	100765968	15.79	15.28	9.93	11.95	14.80	14.96	645.61	654.25	421.07	496.02	615.82	622.49
cytochrome P450 3A25-like	LOC100765971	100765971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complement factor H-like	LOC100765974	100765974	5.37	4.89	4.83	5.46	5.45	5.17	282.55	263.53	262.08	286.25	292.90	286.01

vigilin pseudogene	LOC100765975	100765975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative ankyrin repeat domain-containing protein ENSP00000383069	LOC100765981	100765981	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	1.24	1.16	1.03	1.87
E3 ubiquitin-protein ligase RNF216 pseudogene	LOC100765983	100765983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prohibitin pseudogene	LOC100765984	100765984	0.48	0.68	0.61	0.19	0.40	0.16	8.35	10.98	11.18	3.48	7.24	2.80
zinc finger protein 239-like	LOC100765987	100765987	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
zinc finger and BTB domain-containing protein 34	LOC100765988	100765988	4.59	4.64	8.18	8.28	6.60	6.54	0.00	0.00	0.00	0.00	0.00	0.00
prefoldin subunit 3	LOC100765989	100765989	0.35	0.46	0.52	0.20	0.70	0.24	4.56	6.41	8.69	2.32	10.35	2.80
60S ribosomal protein L11-like	LOC100765990	100765990	2.07	2.12	0.81	0.00	1.13	1.88	9.87	10.07	3.73	1.16	5.17	8.41
protein transport protein Sec61 subunit gamma-like	LOC100765998	100765998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosome biogenesis protein NSA2 homolog pseudogene	LOC100765999	100765999	0.04	0.20	0.07	0.13	0.06	0.00	0.76	3.66	1.24	2.32	1.03	0.93
interferon-inducible GTPase 1	LOC100766009	100766009	0.07	0.00	0.04	0.00	0.00	0.00	3.04	0.00	2.48	0.00	0.00	0.00
E3 ubiquitin-protein ligase RNF14 pseudogene	LOC100766012	100766012	1.05	0.98	0.81	1.68	1.07	1.37	21.27	21.05	16.15	33.61	22.77	28.97
phosphoglycerate mutase 1 pseudogene	LOC100766014	100766014	1.39	1.18	0.84	0.29	0.32	0.29	22.79	19.22	13.66	4.64	5.17	4.67
histone H2A.V	LOC100766018	100766018	86.04	87.64	89.59	88.07	97.04	104.43	1579.08	1616.86	1647.01	1570.34	1694.27	1822.61
putative vomeronasal receptor-like protein 4	LOC100766019	100766019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IgGFc-binding protein-like	LOC100766020	100766020	0.03	0.03	0.01	0.02	0.01	0.01	1.52	1.83	0.00	0.00	1.03	1.87
olfactory receptor 4A5-like	LOC100766022	100766022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ran-binding protein 17	LOC100766027	100766027	2.11	2.21	1.72	2.65	3.11	2.79	132.16	140.00	115.51	168.04	179.05	171.04

nidogen-1	LOC100766031	100766031	266.50	270.07	368.72	368.64	299.65	305.16	23425.71	23962.90	32922.75	32999.08	27066.96	27526.96
cytochrome c1, heme protein, mitochondrial	LOC100766032	100766032	183.92	172.66	185.99	175.15	156.92	173.62	5609.96	5321.84	5724.78	5300.90	4786.81	5211.72
39S ribosomal protein L51, mitochondrial pseudogene	LOC100766033	100766033	0.51	0.44	0.12	0.11	0.71	0.23	6.08	4.58	1.24	1.16	7.24	2.80
glutathione S-transferase theta-2	LOC100766034	100766034	6.61	5.54	7.97	6.92	5.28	6.03	255.21	231.50	332.88	304.80	241.15	252.36
10 kDa heat shock protein, mitochondrial	LOC100766036	100766036	35.00	51.10	38.01	39.16	34.88	22.69	101.02	143.66	100.61	91.55	87.97	56.08
60S ribosomal protein L19 pseudogene	LOC100766039	100766039	0.05	0.19	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.93
pleiotropic regulator 1 pseudogene	LOC100766041	100766041	0.12	0.02	0.05	0.04	0.05	0.07	3.80	0.92	1.24	1.16	1.03	1.87
serine/threonine-protein kinase 40 pseudogene	LOC100766042	100766042	0.00	0.03	0.02	0.07	0.03	0.00	0.00	0.92	0.00	2.32	1.03	0.00
GDP-Man:Man(3)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase-like	LOC100766044	100766044	0.21	0.26	0.25	0.21	0.22	0.24	2.28	7.32	4.97	2.32	4.14	4.67
carboxylesterase 1E	LOC100766045	100766045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2-like	LOC100766047	100766047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I1-like	LOC100766051	100766051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinetochore-associated protein 1	LOC100766053	100766053	36.18	38.58	33.15	37.39	50.56	46.59	3810.61	3952.03	3481.57	3865.00	4971.04	4594.84
ubiquitin-conjugating enzyme E2 C-like	LOC100766056	100766056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S11-like	LOC100766060	100766060	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	2.48	0.00	0.00	0.00
cathepsin L1-like	LOC100766062	100766062	0.00	0.00	0.00	0.00	0.13	0.00	2.28	0.92	0.00	0.00	4.14	0.00
olfactory receptor 14J1-like	LOC100766063	100766063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51G2	LOC100766064	100766064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3-hydroxybutyrate dehydrogenase type 2	LOC100766065	100766065	5.38	4.61	6.26	5.92	5.53	5.10	205.08	204.05	193.77	203.97	197.68	180.39
keratin, type II cytoskeletal cochleal-like	LOC100766068	100766068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100766073	100766073	188.32	199.45	177.01	152.52	125.46	130.67	397.24	423.66	402.44	326.82	205.96	329.94
60S ribosomal protein L29 pseudogene	LOC100766075	100766075	1.10	2.01	1.08	1.17	1.23	0.29	9.87	14.64	11.18	8.11	10.35	1.87
alpha-enolase pseudogene	LOC100766078	100766078	0.79	0.53	0.70	0.48	0.62	0.46	16.71	9.15	13.66	8.11	9.31	10.28
uncharacterized LOC100766081	LOC100766081	100766081	0.66	0.48	0.00	0.00	0.00	0.00	5.32	4.58	0.00	0.00	0.00	0.93
TP53-regulated inhibitor of apoptosis 1 pseudogene	LOC100766085	100766085	0.19	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100766086	100766086	0.25	0.14	0.44	0.24	0.05	0.14	5.32	1.83	8.69	6.95	1.03	2.80
histone H2A.Z	LOC100766092	100766092	86.96	88.64	68.71	36.74	26.15	25.53	1424.14	1428.37	1042.11	441.55	214.24	239.28
proton-coupled amino acid transporter 1	LOC100766093	100766093	3.21	3.35	3.20	2.90	3.28	3.38	457.24	477.65	454.60	403.30	468.85	486.96
pre-mRNA-processing factor 17 pseudogene	LOC100766098	100766098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L13 pseudogene	LOC100766103	100766103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
granzyme C-like	LOC100766105	100766105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vacuole membrane protein 1-like	LOC100766106	100766106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf62	LOC100766109	100766109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP/ATP translocase 2 pseudogene	LOC100766110	100766110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1 pseudogene	LOC100766115	100766115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eppin-like	LOC100766120	100766120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 10AG1-like	LOC100766122	100766122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor SPT20 homolog pseudogene	LOC100766123	100766123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100766124	100766124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C8orf34	LOC100766125	100766125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
enolase-like	LOC100766129	100766129	0.10	0.22	0.27	0.10	0.11	0.02	6.08	10.98	12.42	4.64	6.21	2.80
U1 small nuclear ribonucleoprotein A pseudogene	LOC100766133	100766133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S8 pseudogene	LOC100766136	100766136	0.85	0.82	0.48	0.37	0.49	0.63	9.87	10.07	6.21	4.64	6.21	7.48
protein BEX2-like	LOC100766137	100766137	0.06	0.00	0.00	0.10	0.26	0.08	0.00	0.00	0.00	0.00	0.00	0.00
interferon alpha-12	LOC100766144	100766144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor-like protein I9	LOC100766145	100766145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100766147	100766147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hemoglobin subunit alpha-like	LOC100766152	100766152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 139	LOC100766158	100766158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B12-like	LOC100766159	100766159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lamin-B receptor-like	LOC100766162	100766162	0.00	0.02	0.03	0.03	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100766163	100766163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleophosmin pseudogene	LOC100766165	100766165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-actin-like protein 2	LOC100766167	100766167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

dnaJ homolog subfamily C member 14 pseudogene	LOC100766169	100766169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosome biogenesis protein NSA2 homolog pseudogene	LOC100766185	100766185	0.18	0.05	0.07	0.07	0.06	0.05	3.04	0.92	1.24	1.16	1.03	0.93
olfactory receptor 13A1	LOC100766188	100766188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synphilin-1-like	LOC100766193	100766193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 43B-like	LOC100766194	100766194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA binding motif protein, X-linked-like-1	LOC100766196	100766196	0.12	0.06	0.08	0.11	0.03	0.00	4.56	4.58	7.45	4.64	3.10	2.80
olfactory receptor 2AG1-like	LOC100766198	100766198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100766201	100766201	0.62	0.98	0.68	0.09	0.73	0.15	9.11	11.90	8.69	1.16	8.28	3.74
carcinoembryonic antigen-related cell adhesion molecule 1-like	LOC100766202	100766202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin-binding protein 1-like	LOC100766203	100766203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low molecular weight phosphotyrosine protein phosphatase pseudogene	LOC100766206	100766206	0.79	1.18	0.80	1.01	1.31	1.38	20.51	31.11	21.12	26.66	31.05	36.45
zinc finger protein 26	LOC100766207	100766207	3.11	3.09	2.82	3.31	3.77	3.69	167.10	154.64	145.32	166.88	178.02	184.13
zinc finger and BTB domain-containing protein 14-like	LOC100766208	100766208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1 regulatory subunit 26-like	LOC100766209	100766209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100766213	100766213	11.14	10.67	11.63	13.45	12.64	11.69	1001.83	975.43	1076.89	1294.51	1184.02	1100.11
chromosome unknown open reading frame, human C19orf53	LOC100766214	100766214	84.01	79.18	82.59	67.03	57.94	60.92	2380.40	2246.41	2343.82	1884.40	1619.75	1722.60
putative olfactory receptor 2W6	LOC100766219	100766219	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
60S ribosomal protein L37a-like	LOC100766222	100766222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 10	LOC100766223	100766223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12 pseudogene	LOC100766226	100766226	0.12	0.03	0.00	0.08	0.10	0.18	3.80	1.83	0.00	2.32	3.10	6.54
ribosomal L1 domain-containing protein 1 pseudogene	LOC100766227	100766227	1.20	0.74	0.66	0.65	0.66	0.65	61.52	46.67	39.75	30.13	37.26	34.58
olfactory receptor 2B11	LOC100766228	100766228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 15	LOC100766238	100766238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7G2-like	LOC100766241	100766241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf68	LOC100766243	100766243	163.45	157.01	147.13	102.26	86.74	97.19	5834.02	5609.16	5267.69	3634.37	3080.12	3492.86
14-3-3 protein zeta/delta pseudogene	LOC100766248	100766248	0.04	0.00	0.00	0.00	0.00	0.09	0.76	0.00	0.00	0.00	0.00	1.87
liver carboxylesterase	LOC100766249	100766249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100766251	LOC100766251	100766251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain-like	LOC100766254	100766254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 149	LOC100766259	100766259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hypothetical protein	LOC100766264	100766264	12.65	12.01	12.03	11.55	11.78	12.06	192.92	185.75	177.62	181.95	193.54	187.87
interferon-induced guanylate-binding protein 2-like	LOC100766265	100766265	0.00	0.00	0.04	0.00	0.04	0.00	0.76	0.00	1.24	1.16	4.14	8.41
alkylated DNA repair protein alkB homolog 8 pseudogene	LOC100766267	100766267	2.82	2.81	2.82	2.74	3.41	2.56	66.84	73.20	67.07	61.42	82.80	62.62
uncharacterized LOC100766272	LOC100766272	100766272	10.69	10.98	9.39	10.89	12.21	12.20	337.99	344.05	340.33	362.74	464.71	437.43
chromosome unknown open reading frame, human C15orf26	LOC100766273	100766273	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 1 pseudogene	LOC100766274	100766274	0.14	0.67	0.47	0.46	0.20	0.18	0.76	3.66	2.48	3.48	1.03	0.93

GTPase ERas-like	LOC100766275	100766275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B2 pseudogene	LOC100766278	100766278	1.47	1.38	3.15	2.71	1.95	1.80	16.71	13.73	36.02	28.97	20.70	17.76
zinc finger protein 120-like	LOC100766281	100766281	0.09	0.11	0.00	0.14	0.00	0.00	0.76	0.00	0.00	2.32	2.07	0.93
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100766283	100766283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 26	LOC100766284	100766284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26-like	LOC100766285	100766285	0.13	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
TAR DNA-binding protein 43 pseudogene	LOC100766288	100766288	0.71	0.79	0.32	0.37	0.70	0.18	41.02	42.09	34.78	17.38	24.84	10.28
dihydrofolate reductase pseudogene	LOC100766291	100766291	0.00	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
keratin-associated protein 12-1-like	LOC100766293	100766293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100766309	100766309	0.00	0.00	0.00	0.00	0.06	0.00	0.76	0.00	0.00	1.16	3.10	0.00
olfactory receptor 50	LOC100766310	100766310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 90-like	LOC100766314	100766314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IgGFc-binding protein-like	LOC100766315	100766315	0.58	0.48	0.12	0.19	0.12	0.14	161.78	132.68	38.50	49.83	31.05	42.06
olfactory receptor 4A5-like	LOC100766317	100766317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pancreatic alpha-amylase	LOC100766318	100766318	0.03	0.00	0.02	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serine protease 42-like	LOC100766321	100766321	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vitamin K-dependent protein S-like	LOC100766322	100766322	0.01	0.03	0.00	0.02	0.04	0.00	0.76	1.83	0.00	1.16	2.07	0.00
60S ribosomal protein L39-like	LOC100766325	100766325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

phosphoglycerate kinase 1 pseudogene	LOC100766327	100766327	1.13	0.90	0.93	0.45	1.58	0.99	21.27	19.22	19.87	10.43	24.84	16.82
serine incorporator 3-like	LOC100766329	100766329	0.47	0.38	0.14	0.12	0.52	0.37	24.31	16.47	7.45	8.11	21.73	12.15
L-lactate dehydrogenase A chain pseudogene	LOC100766330	100766330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
liver carboxylesterase 4-like	LOC100766339	100766339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2-like	LOC100766341	100766341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 1	LOC100766344	100766344	103.65	101.39	87.73	85.95	85.64	89.28	977.53	919.61	808.60	847.17	817.64	932.80
olfactory receptor 51G2-like	LOC100766345	100766345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51B6-like	LOC100766357	100766357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal transducer CD24 pseudogene	LOC100766359	100766359	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member B pseudogene	LOC100766360	100766360	0.00	0.00	0.00	0.03	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 8-like	LOC100766361	100766361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox protein TGIF2 pseudogene	LOC100766365	100766365	0.31	0.27	0.14	0.09	0.08	0.10	8.35	7.32	3.73	2.32	2.07	2.80
programmed cell death protein 6 pseudogene	LOC100766367	100766367	0.19	0.35	0.26	0.00	0.45	0.00	5.32	8.24	2.48	0.00	6.21	2.80
olfactory receptor 181	LOC100766369	100766369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-like protein FUBI pseudogene	LOC100766377	100766377	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.93
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100766378	100766378	1.04	0.96	0.65	0.96	1.28	1.31	28.86	31.11	18.63	27.81	48.64	43.93
H/ACA ribonucleoprotein complex subunit 4 pseudogene	LOC100766379	100766379	0.07	0.05	0.11	0.00	0.00	0.03	3.04	0.92	2.48	0.00	0.00	1.87
high mobility group protein B1 pseudogene	LOC100766385	100766385	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

heat shock protein HSP 90-beta pseudogene	LOC100766396	100766396	23.60	25.98	23.21	16.81	21.26	18.79	987.40	1039.48	948.95	690.72	585.80	606.60
chromosome unknown open reading frame, human C5orf22	LOC100766398	100766398	5.25	5.64	6.17	6.61	6.98	7.22	609.91	661.57	731.59	763.73	823.85	841.20
granzyme G-like	LOC100766399	100766399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selenoprotein K pseudogene	LOC100766400	100766400	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	1.16	0.00	0.93
PWWP domain-containing protein MUM1	LOC100766402	100766402	17.34	18.13	22.01	20.92	17.66	17.76	1548.70	1586.67	1943.87	1860.07	1521.43	1574.92
caspase-3-like	LOC100766404	100766404	0.10	0.17	0.00	0.00	0.07	0.17	2.28	3.66	0.00	0.00	1.03	3.74
heterogeneous nuclear ribonucleoproteins C1/C2 pseudogene	LOC100766410	100766410	1.27	1.00	0.75	0.32	0.64	0.73	12.91	7.32	4.97	3.48	5.17	4.67
single-stranded DNA-binding protein, mitochondrial pseudogene	LOC100766411	100766411	0.09	0.24	0.15	0.07	0.18	0.00	0.76	2.75	2.48	1.16	3.10	0.00
uncharacterized protein C2orf78 homolog	LOC100766415	100766415	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
cleavage and polyadenylation specificity factor subunit 4 pseudogene	LOC100766416	100766416	0.10	0.06	0.08	0.00	0.14	0.00	1.52	0.92	1.24	0.00	2.07	0.00
uncharacterized LOC100766417	LOC100766417	100766417	13.81	13.59	13.68	9.36	6.08	8.13	489.90	475.82	484.41	331.45	217.35	290.68
RNA-binding protein 8A pseudogene	LOC100766423	100766423	0.45	0.18	0.25	0.30	0.21	0.43	4.56	1.83	2.48	2.32	2.07	3.74
60S ribosomal protein L10-like	LOC100766425	100766425	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
ADP-ribosylation factor 1 pseudogene	LOC100766427	100766427	21.28	23.14	19.68	17.02	18.08	17.05	271.92	297.39	248.42	219.04	230.80	216.84
signal peptidase complex subunit 3	LOC100766431	100766431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100766434	LOC100766434	100766434	0.51	0.55	0.00	0.44	0.31	0.42	9.87	7.32	0.00	6.95	5.17	8.41
interferon alpha-12-like	LOC100766437	100766437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1	LOC100766438	100766438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

vomeronasal type-1 receptor 4-like	LOC100766439	100766439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2K4-like	LOC100766444	100766444	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V-type proton ATPase subunit D pseudogene	LOC100766447	100766447	0.77	0.28	0.58	0.36	0.52	0.23	12.15	4.58	8.69	5.79	8.28	3.74
olfactory receptor 3A1-like	LOC100766450	100766450	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10Q1-like	LOC100766451	100766451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 1 regulatory subunit 10-like	LOC100766453	100766453	0.01	0.01	0.02	0.03	0.02	0.00	0.00	0.92	1.24	2.32	1.03	0.00
WW domain-binding protein 2 pseudogene	LOC100766454	100766454	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM84A-like	LOC100766456	100766456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100766457	100766457	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.93
chromosome unknown open reading frame, human C7orf26	LOC100766477	100766477	19.37	18.59	18.68	16.11	11.60	13.22	944.11	921.44	917.90	788.07	567.17	650.53
zinc finger protein 120-like	LOC100766483	100766483	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	1.16	0.00	0.93
protein SAAL1-like	LOC100766485	100766485	31.28	30.37	36.80	37.41	38.21	37.84	1099.05	1067.84	1312.89	1295.67	1369.29	1322.56
poly [ADP-ribose] polymerase 9-like	LOC100766487	100766487	0.21	0.12	0.18	0.18	0.26	0.26	11.39	4.58	11.18	5.79	16.56	13.09
CDC42 small effector protein 1 pseudogene	LOC100766490	100766490	0.30	0.61	0.17	0.16	0.28	0.00	6.84	9.15	6.21	3.48	3.10	1.87
transcription elongation factor A protein-like 4	LOC100766491	100766491	34.67	36.37	29.25	31.75	31.03	32.44	810.43	851.90	700.54	744.03	724.49	766.43
vomeronasal type-2 receptor 116-like	LOC100766492	100766492	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class I histocompatibility antigen, alpha chain-like	LOC100766493	100766493	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative gustatory receptor clone PTE01	LOC100766497	100766497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transmembrane 9 superfamily member 2-like	LOC100766498	100766498	0.04	0.02	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
putative deoxyribonuclease TATDN2 pseudogene	LOC100766499	100766499	1.90	1.71	2.25	2.10	2.04	1.86	8.35	10.98	13.66	9.27	12.42	5.61
chromosome unknown open reading frame, human C19orf68	LOC100766500	100766500	6.06	5.25	6.53	5.02	5.26	4.49	344.83	304.71	376.35	283.94	296.01	256.10
vesicle transport protein USE1 pseudogene	LOC100766501	100766501	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
40S ribosomal protein S18 pseudogene	LOC100766503	100766503	1.32	1.74	1.26	0.45	0.90	0.36	9.87	9.15	6.21	2.32	3.10	1.87
zinc finger protein 431-like	LOC100766504	100766504	2.05	2.06	2.10	2.47	2.42	2.00	122.29	111.63	103.09	122.85	117.99	96.27
myosin phosphatase Rho-interacting protein	LOC100766510	100766510	19.61	19.35	20.17	19.98	19.42	20.22	4829.15	4863.40	5240.36	5167.62	4962.76	5207.98
olfactory receptor 10-like	LOC100766514	100766514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100766517	100766517	1.58	1.62	1.39	0.48	1.70	0.61	28.10	32.03	28.57	8.11	32.08	12.15
60S ribosomal protein L23a pseudogene	LOC100766523	100766523	8.42	9.05	7.60	6.34	6.94	3.97	24.31	47.58	29.81	35.93	33.12	11.22
cytochrome P450 3A9	LOC100766524	100766524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histidine triad nucleotide-binding protein 1 pseudogene	LOC100766525	100766525	32.18	43.36	37.15	32.73	33.37	25.80	194.44	261.70	214.88	183.11	195.61	149.55
ubiquitin carboxyl-terminal hydrolase 27-like	LOC100766526	100766526	0.31	0.32	0.19	0.18	0.12	0.22	0.76	0.00	0.00	0.00	0.00	0.93
olfactory receptor 1361-like	LOC100766528	100766528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7G2-like	LOC100766531	100766531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L1, mitochondrial pseudogene	LOC100766535	100766535	0.98	0.81	0.73	0.83	0.96	0.96	25.06	18.30	17.39	25.50	23.80	23.37
thymosin beta-10 pseudogene	LOC100766540	100766540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C4-like	LOC100766542	100766542	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

zinc finger protein 431-like	LOC100766543	100766543	0.00	0.00	0.07	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 473	LOC100766547	100766547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 148	LOC100766548	100766548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100766550	100766550	0.09	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
guanylate-binding protein 4-like	LOC100766554	100766554	0.01	0.02	0.02	0.00	0.00	0.05	0.76	0.92	1.24	0.00	0.00	2.80
U2 small nuclear ribonucleoprotein B" pseudogene	LOC100766555	100766555	0.56	0.51	0.26	0.49	0.26	0.35	9.87	6.41	3.73	6.95	3.10	4.67
asparagine synthetase domain-containing protein 1-like	LOC100766556	100766556	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase MARCH5-like	LOC100766557	100766557	0.02	0.04	0.00	0.06	0.00	0.05	0.00	0.92	0.00	1.16	1.03	0.93
NAD(P) transhydrogenase, mitochondrial	LOC100766566	100766566	46.47	47.06	43.01	45.29	46.96	47.78	1882.14	2025.88	1866.86	1922.65	2119.65	2082.44
actin-related protein 2 pseudogene	LOC100766567	100766567	0.90	0.64	0.53	0.45	0.76	0.49	6.08	4.58	4.97	3.48	5.17	1.87
pre-mRNA-splicing regulator WTAP-like	LOC100766571	100766571	2.93	3.04	2.93	3.34	3.62	2.38	57.72	69.54	60.86	54.47	54.85	42.06
polypyrimidine tract-binding protein 1 pseudogene	LOC100766574	100766574	4.75	5.27	4.89	2.79	1.44	1.54	47.85	54.90	45.96	35.93	16.56	18.69
Golgi SNAP receptor complex member 2	LOC100766577	100766577	235.59	227.77	226.25	223.68	205.34	233.43	3238.68	3109.28	3085.34	2856.74	2567.80	2823.64
protein LSM14 homolog A pseudogene	LOC100766579	100766579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin-C	LOC100766583	100766583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S8-like	LOC100766588	100766588	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC100766590	LOC100766590	100766590	0.62	0.11	0.59	0.43	0.87	0.23	9.11	8.24	9.94	8.11	15.52	11.22
olfactory receptor 50	LOC100766603	100766603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100766606	LOC100766606	100766606	17.99	16.36	19.51	21.43	19.65	19.91	1940.62	1880.39	2323.94	2322.48	2084.46	1971.22
putative vomeronasal receptor-like protein 4	LOC100766607	100766607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A5-like	LOC100766610	100766610	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100766616	100766616	0.67	0.82	0.50	0.59	0.96	0.27	5.32	4.58	2.48	3.48	8.28	0.93
serine/arginine-rich splicing factor 3 pseudogene	LOC100766621	100766621	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP/ATP translocase 2 pseudogene	LOC100766622	100766622	0.26	0.16	0.03	0.05	0.07	0.17	2.28	3.66	0.00	1.16	1.03	0.93
liver carboxylesterase 1-like	LOC100766630	100766630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2-like	LOC100766632	100766632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52Z1	LOC100766636	100766636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 2W6	LOC100766647	100766647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 52P1	LOC100766648	100766648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EKC/KEOPS complex subunit LAGE3-like	LOC100766651	100766651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100766652	100766652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100766657	100766657	0.24	0.27	0.16	0.05	0.07	0.08	12.91	15.56	6.21	2.32	2.07	5.61
myosin-4	LOC100766659	100766659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5K1-like	LOC100766661	100766661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POC1 centriolar protein homolog A	LOC100766662	100766662	9.59	9.58	11.24	9.14	8.06	8.36	266.60	257.12	310.52	246.85	213.21	232.73
putative DMBT1-like protein	LOC100766665	100766665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

signal-regulatory protein beta-1 isoform 3-like	LOC100766667	100766667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
epithelial chloride channel protein-like	LOC100766670	100766670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like protein 4D	LOC100766671	100766671	6.18	6.11	3.82	3.18	2.08	2.55	63.80	51.24	37.26	19.70	8.28	17.76
calcineurin-like phosphoesterase domain-containing protein 1 pseudogene	LOC100766672	100766672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf106	LOC100766673	100766673	0.09	0.02	0.00	0.04	0.02	0.00	5.32	2.75	0.00	2.32	1.03	0.00
chromosome unknown open reading frame, human C20orf27	LOC100766674	100766674	17.19	16.56	18.75	15.66	12.87	13.56	605.35	593.86	665.76	548.17	451.25	500.05
anaphase-promoting complex subunit CDC26 pseudogene	LOC100766682	100766682	0.00	0.38	0.00	0.00	0.00	0.00	0.00	2.75	1.24	0.00	0.00	0.93
40S ribosomal protein S2-like	LOC100766689	100766689	2.13	1.12	0.76	0.70	1.11	1.65	38.74	21.96	19.87	10.43	20.70	30.84
signal peptidase complex subunit 2 pseudogene	LOC100766695	100766695	0.09	0.22	0.15	0.14	0.12	0.17	3.04	3.66	2.48	2.32	2.07	2.80
60S ribosomal protein L23 pseudogene	LOC100766697	100766697	0.00	0.11	0.00	0.00	0.00	0.00	1.52	2.75	1.24	1.16	0.00	0.00
WAP four-disulfide core domain protein 6A-like	LOC100766705	100766705	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AS1-like	LOC100766707	100766707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor SPT20 homolog pseudogene	LOC100766708	100766708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-actin-capping protein subunit alpha-1-like	LOC100766712	100766712	0.06	0.00	0.19	0.06	0.08	0.09	0.76	0.00	3.73	1.16	1.03	1.87
interferon alpha-inducible protein 6-like	LOC100766713	100766713	0.72	0.67	0.27	0.09	0.39	0.14	18.23	18.30	7.45	2.32	8.28	5.61
signal peptidase complex subunit 3	LOC100766720	100766720	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinase 1-like	LOC100766722	100766722	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
prohibitin pseudogene	LOC100766723	100766723	0.10	0.06	0.00	0.00	0.13	0.06	6.08	1.83	1.24	0.00	2.07	1.87

interferon alpha-12	LOC100766726	100766726	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1468	LOC100766727	100766727	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100766728	100766728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf159	LOC100766731	100766731	16.03	17.15	19.53	22.10	21.58	23.94	919.04	995.56	1156.38	1277.13	1285.45	1428.18
chromosome unknown open reading frame, human C6orf141	LOC100766734	100766734	2.09	2.02	2.27	2.44	2.30	1.98	87.35	86.93	96.88	86.92	82.80	60.75
liver carboxylesterase-like	LOC100766735	100766735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1A1	LOC100766740	100766740	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10W1-like	LOC100766741	100766741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proliferation-associated protein 2G4 pseudogene	LOC100766743	100766743	2.29	2.47	1.83	1.31	1.77	1.33	56.21	56.73	45.96	28.97	39.33	28.97
vomeronasal type-1 receptor 2-like	LOC100766745	100766745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100766746	100766746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
suppressor of cytokine signaling 5-like	LOC100766747	100766747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC100766748	100766748	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	1.16	0.00	0.93
chromosome unknown open reading frame, human C9orf9	LOC100766755	100766755	0.07	0.12	0.16	0.23	0.27	0.33	4.56	7.32	8.69	6.95	10.35	13.09
translationally-controlled tumor protein pseudogene	LOC100766760	100766760	300.23	314.10	308.45	281.57	220.07	207.33	3329.06	3465.23	3359.84	3012.03	2281.11	2175.91
uncharacterized LOC100766763	LOC100766763	100766763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol dehydrogenase 1	LOC100766767	100766767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100766771	100766771	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00

glutathione S-transferase Y1	LOC100766772	100766772	47.08	50.70	43.99	45.84	41.28	45.34	1431.73	1542.75	1319.10	1355.94	1208.86	1344.06
H-2 class II histocompatibility antigen, E-S beta chain-like	LOC100766775	100766775	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RING2 pseudogene	LOC100766779	100766779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
draxin	LOC100766781	100766781	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
eukaryotic translation initiation factor 3 subunit J-like	LOC100766783	100766783	0.11	0.20	0.19	0.35	0.31	0.07	1.52	3.66	2.48	4.64	4.14	0.93
M-phase inducer phosphatase 3 pseudogene	LOC100766784	100766784	0.04	0.11	0.11	0.07	0.03	0.08	0.00	0.00	0.00	0.00	0.00	1.87
olfactory receptor 7D4-like	LOC100766786	100766786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3 type 1-like	LOC100766787	100766787	0.72	0.41	0.93	0.63	0.54	0.63	3.04	2.75	7.45	4.64	3.10	3.74
rhox homeobox family member 2	LOC100766788	100766788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf100	LOC100766789	100766789	0.16	0.13	0.00	0.33	0.07	0.07	6.84	5.49	1.24	6.95	4.14	3.74
zinc finger protein OZF-like	LOC100766794	100766794	2.77	2.81	2.96	4.15	4.14	3.82	174.69	164.71	191.28	245.69	253.57	249.56
fas apoptotic inhibitory molecule 1	LOC100766798	100766798	35.62	36.09	19.96	19.16	21.88	22.55	866.63	883.92	480.69	453.14	518.53	513.13
cytochrome b-c1 complex subunit 1, mitochondrial	LOC100766805	100766805	100.72	90.83	94.17	93.31	73.32	78.52	3968.59	3563.14	3696.45	3579.90	2836.90	3074.13
dnaJ homolog subfamily B member 6-like	LOC100766806	100766806	0.00	0.00	0.00	0.00	0.00	0.00	0.76	2.75	1.24	0.00	2.07	0.93
mitogen-activated protein kinase 3 pseudogene	LOC100766808	100766808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 6B1	LOC100766809	100766809	204.54	206.40	197.01	187.42	155.68	168.86	1988.47	2106.41	1920.27	1766.19	1546.27	1588.94
60S ribosomal protein L7 pseudogene	LOC100766815	100766815	0.56	0.34	0.44	0.47	0.49	0.37	5.32	3.66	4.97	4.64	6.21	4.67
ATP synthase F(0) complex subunit C1, mitochondrial pseudogene	LOC100766821	100766821	0.43	0.64	0.00	0.17	0.45	0.41	3.04	4.58	0.00	1.16	3.10	2.80

olfactory receptor 7G2-like	LOC100766823	100766823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
asparagine--tRNA ligase, cytoplasmic pseudogene	LOC100766826	100766826	0.05	0.08	0.09	0.08	0.12	0.02	2.28	3.66	3.73	3.48	5.17	0.93
DNA replication complex GINS protein PSF2 pseudogene	LOC100766827	100766827	5.61	4.70	5.18	5.56	4.07	6.55	98.74	79.61	90.67	91.55	71.41	112.16
cytochrome b-245 light chain	LOC100766833	100766833	18.77	19.19	22.42	17.78	12.35	13.03	344.83	363.27	417.34	315.23	233.91	247.69
olfactory receptor 6C4-like	LOC100766834	100766834	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear speckle splicing regulatory protein 1 pseudogene	LOC100766836	100766836	0.65	0.90	0.81	0.69	0.83	0.47	28.10	38.43	38.50	28.97	36.22	18.69
olfactory receptor 473-like	LOC100766839	100766839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Willebrand factor A domain-containing protein 5A-like	LOC100766840	100766840	8.45	8.79	4.92	4.78	5.72	5.23	890.94	930.59	509.26	519.20	589.94	551.46
ornithine decarboxylase pseudogene	LOC100766841	100766841	0.10	0.03	0.08	0.04	0.04	0.03	3.04	0.92	2.48	1.16	2.07	0.93
acyl-protein thioesterase 1 pseudogene	LOC100766845	100766845	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L39-like	LOC100766848	100766848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4X1	LOC100766854	100766854	2.23	1.92	0.29	0.37	0.04	0.08	206.59	183.01	28.57	37.09	3.10	5.61
BRCA1-A complex subunit Abraxas	LOC100766855	100766855	17.31	17.46	22.27	24.35	24.81	25.16	414.71	413.60	534.10	593.37	608.57	600.99
actin-related protein 2 pseudogene	LOC100766860	100766860	0.08	0.19	0.06	0.18	0.18	0.11	0.76	4.58	0.00	3.48	4.14	2.80
T-cell ecto-ADP-ribosyltransferase 2-like	LOC100766862	100766862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-1-like	LOC100766876	100766876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative GTP cyclohydrolase 1 type 2 Nif3l1 pseudogene	LOC100766889	100766889	0.05	0.00	0.16	0.11	0.10	0.12	1.52	0.00	4.97	3.48	3.10	3.74
HAUS augmin-like complex subunit 7 pseudogene	LOC100766892	100766892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 1N1	LOC100766893	100766893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100766894	100766894	5.78	6.76	4.66	3.25	4.24	3.51	40.26	43.01	27.33	17.38	23.80	20.56
putative vomeronasal receptor-like protein 4	LOC100766897	100766897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 60-like	LOC100766898	100766898	3.73	3.55	5.18	5.79	6.59	6.24	334.96	312.03	460.81	522.67	581.66	564.54
putative olfactory receptor 4A8	LOC100766900	100766900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-oxo-5-alpha-steroid 4-dehydrogenase 2	LOC100766917	100766917	0.05	0.04	0.05	0.00	0.02	0.02	3.04	1.83	2.48	0.00	1.03	0.93
arfaptin-2 pseudogene	LOC100766919	100766919	0.04	0.10	0.14	0.00	0.00	0.00	0.76	1.83	2.48	0.00	0.00	0.00
proteasome activator complex subunit 3 pseudogene	LOC100766920	100766920	0.64	0.76	0.50	0.28	0.23	0.19	17.47	19.22	12.42	6.95	6.21	4.67
nuclear receptor-binding factor 2-like	LOC100766926	100766926	0.08	0.05	0.20	0.00	0.06	0.05	3.04	0.92	3.73	0.00	1.03	1.87
60S ribosomal protein L15 pseudogene	LOC100766928	100766928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 33	LOC100766932	100766932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein ARMCX6-like	LOC100766933	100766933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pumilio domain-containing protein KIAA0020 pseudogene	LOC100766938	100766938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51V1-like	LOC100766939	100766939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-dependent RNA helicase DDX19A	LOC100766941	100766941	45.50	47.13	47.99	50.61	48.55	50.16	2232.29	2268.37	2312.77	2461.55	2408.41	2618.94
EKC/KEOPS complex subunit LAGE3-like	LOC100766943	100766943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1537-like	LOC100766945	100766945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein HMG-I/HMG-Y-like	LOC100766946	100766946	1.43	0.69	2.89	2.26	1.03	0.48	43.29	34.77	32.29	20.86	12.42	10.28

uncharacterized protein KIAA2012 homolog	LOC100766951	100766951	0.05	0.01	0.03	0.03	0.01	0.01	6.84	1.83	3.73	5.79	3.10	2.80
myosin-1	LOC100766952	100766952	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 187-like	LOC100766954	100766954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100766956	LOC100766956	100766956	16.78	16.30	21.84	20.58	17.20	19.97	1044.37	1016.60	1376.23	1286.40	1071.21	1252.46
cytochrome c oxidase assembly factor 5	LOC100766959	100766959	17.10	17.47	17.88	19.78	21.52	23.25	984.36	1048.63	1066.95	1177.46	1296.84	1373.03
beta-hexosaminidase subunit beta-like	LOC100766960	100766960	5.28	5.28	5.43	5.54	6.84	7.31	219.51	227.84	257.11	235.26	311.53	312.18
trafficking protein particle complex subunit 2-like	LOC100766962	100766962	16.02	16.14	13.64	14.82	18.27	17.13	330.40	339.48	275.74	308.27	377.77	360.78
aminoacyl tRNA synthase complex-interacting multifunctional protein 2 pseudogene	LOC100766970	100766970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromobox protein homolog 3 pseudogene	LOC100766974	100766974	0.18	0.28	0.10	0.32	0.45	0.59	15.95	17.39	16.15	22.02	13.45	6.54
acyl-protein thioesterase 1 pseudogene	LOC100766975	100766975	0.32	0.30	0.28	0.14	0.16	0.06	8.35	5.49	4.97	2.32	2.07	0.93
eukaryotic translation initiation factor 4B pseudogene	LOC100766976	100766976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme G-like	LOC100766984	100766984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin domain-containing protein 17 pseudogene	LOC100766985	100766985	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	1.16	0.00	0.93
40S ribosomal protein SA pseudogene	LOC100766992	100766992	89.67	68.67	79.24	70.45	73.65	86.47	1422.62	1062.35	1230.91	1209.91	1216.11	1466.50
uncharacterized LOC100766994	LOC100766994	100766994	0.21	0.04	0.11	0.00	0.00	0.04	4.56	0.92	2.48	0.00	0.00	0.93
putative E3 ubiquitin-protein ligase UBR7 pseudogene	LOC100766995	100766995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100766997	100766997	0.24	0.61	0.55	0.52	0.60	0.88	6.08	15.56	13.66	12.75	17.59	22.43
olfactory receptor 1052	LOC100767000	100767000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

pancreatic alpha-amylase-like	LOC100767001	100767001	0.14	0.17	0.13	0.25	0.24	0.22	6.84	6.41	7.45	12.75	10.35	8.41
40S ribosomal protein S15a-like	LOC100767002	100767002	0.00	0.23	0.00	0.21	0.06	0.00	0.00	0.92	0.00	0.00	0.00	0.00
V-type proton ATPase subunit d 1 pseudogene	LOC100767009	100767009	0.03	0.00	0.05	0.00	0.00	0.00	0.76	0.92	2.48	0.00	0.00	0.00
protein kish-A pseudogene	LOC100767013	100767013	0.54	0.65	0.94	0.00	0.80	0.00	0.76	0.92	1.24	0.00	1.03	0.00
protein SSX8-like	LOC100767016	100767016	0.83	0.37	0.91	1.52	1.23	1.09	43.29	31.11	38.50	84.60	68.31	67.30
leukocyte immunoglobulin-like receptor subfamily A member 1	LOC100767032	100767032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triosephosphate isomerase pseudogene	LOC100767034	100767034	0.52	0.74	0.37	0.21	0.53	0.17	6.84	11.90	6.21	3.48	8.28	2.80
olfactory receptor 1P1-like	LOC100767035	100767035	0.00	0.02	0.16	0.03	0.09	0.06	0.00	0.00	3.73	1.16	1.03	3.74
olfactory receptor 10W1-like	LOC100767036	100767036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a	LOC100767038	100767038	36.47	38.34	37.17	30.51	35.02	29.33	130.64	113.46	109.30	89.24	96.25	123.38
mortality factor 4-like protein 2	LOC100767041	100767041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family A member 3-like	LOC100767045	100767045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCNA-associated factor pseudogene	LOC100767049	100767049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 717-like	LOC100767051	100767051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol dehydrogenase 6	LOC100767061	100767061	0.02	0.02	0.03	0.03	0.03	0.00	1.52	0.92	1.24	1.16	2.07	1.87
rhox homeobox family member 1-like	LOC100767067	100767067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-2 class II histocompatibility antigen, E-D beta chain-like	LOC100767068	100767068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S6	LOC100767070	100767070	852.66	880.03	958.81	1039.74	1127.87	1035.75	12894.70	13113.35	14329.96	15534.16	16846.47	15732.36

olfactory receptor 187	LOC100767071	100767071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf24	LOC100767072	100767072	42.76	42.80	41.37	42.33	47.81	47.19	2529.27	2612.42	2553.73	2584.39	2944.54	2871.31
40S ribosomal protein S15a pseudogene	LOC100767076	100767076	12.00	15.16	10.21	6.14	8.62	9.52	63.80	80.52	57.14	27.81	46.57	51.41
olfactory receptor 18-like	LOC100767080	100767080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF-like	LOC100767086	100767086	0.17	0.08	0.14	0.10	0.09	0.03	9.87	2.75	6.21	5.79	3.10	4.67
40S ribosomal protein S2 pseudogene	LOC100767092	100767092	9.92	11.11	10.72	6.39	7.92	5.12	59.24	67.71	60.86	40.56	49.68	29.91
platelet-activating factor acetylhydrolase IB subunit beta pseudogene	LOC100767093	100767093	4.62	4.79	4.89	4.75	5.26	3.51	71.40	77.78	81.98	76.49	79.69	55.15
ameloblastin pseudogene	LOC100767095	100767095	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 233-like	LOC100767100	100767100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
40S ribosomal protein S13 pseudogene	LOC100767101	100767101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3-like	LOC100767106	100767106	1.57	1.75	1.51	0.89	1.47	0.77	95.70	81.44	69.56	50.99	79.69	32.71
cell cycle control protein 50B-like	LOC100767107	100767107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361	LOC100767113	100767113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative gustatory receptor clone PTE38	LOC100767116	100767116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 14C	LOC100767117	100767117	0.00	0.29	0.41	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	0.00
mortality factor 4-like protein 1 pseudogene	LOC100767119	100767119	1.69	1.63	0.75	0.65	0.99	0.32	37.22	38.43	16.15	16.22	21.73	7.48
60S ribosomal protein L26 pseudogene	LOC100767120	100767120	0.35	0.42	0.33	0.00	0.16	0.00	2.28	2.75	1.24	0.00	1.03	0.00
60S ribosomal protein L23 pseudogene	LOC100767128	100767128	0.11	0.13	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00

ferritin heavy chain	LOC100767129	100767129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ORM1-like protein 1	LOC100767133	100767133	1.57	1.57	0.74	0.83	1.29	0.80	10.63	14.64	7.45	6.95	11.38	4.67
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100767134	100767134	0.00	0.00	0.00	0.00	0.00	0.00	3.80	5.49	4.97	2.32	6.21	4.67
guanylate-binding protein 4-like	LOC100767140	100767140	0.03	0.01	0.00	0.00	0.01	0.01	2.28	0.92	0.00	0.00	1.03	0.93
GRB2-associated-binding protein 2 pseudogene	LOC100767147	100767147	0.01	0.00	0.02	0.00	0.03	0.03	0.76	0.00	2.48	1.16	3.10	2.80
cytochrome P450 4A12	LOC100767149	100767149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 175-like	LOC100767155	100767155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell ecto-ADP-ribosyltransferase 2-like	LOC100767157	100767157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 184C pseudogene	LOC100767160	100767160	0.02	0.05	0.01	0.00	0.03	0.01	0.00	0.00	1.24	0.00	0.00	0.00
Ig lambda-2 chain C region-like	LOC100767162	100767162	0.00	0.00	0.00	0.00	0.00	0.00						
cystatin-8-like	LOC100767168	100767168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-1-like	LOC100767171	100767171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha chain-like	LOC100767173	100767173	0.00	0.13	0.00	0.06	0.00	0.00	0.00	2.75	0.00	1.16	0.00	0.00
olfactory receptor 50	LOC100767185	100767185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 4B pseudogene	LOC100767186	100767186	0.17	0.19	0.09	0.13	0.10	0.11	5.32	6.41	3.73	4.64	4.14	4.67
tudor and KH domain-containing protein pseudogene	LOC100767189	100767189	0.06	0.02	0.07	0.03	0.03	0.07	2.28	0.92	2.48	1.16	1.03	2.80
zinc finger protein 60-like	LOC100767190	100767190	2.83	2.72	2.95	3.42	3.69	3.36	293.94	305.62	305.55	330.29	369.49	324.33
olfactory receptor 4A5-like	LOC100767192	100767192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L39	LOC100767204	100767204	1250.74	1251.07	1058.60	1310.30	1237.79	1260.23	2166.97	2114.64	1684.27	1909.90	1949.91	1901.12
WD repeat domain-containing protein 83 pseudogene	LOC100767207	100767207	0.03	0.00	0.00	0.05	0.00	0.00	0.76	1.83	0.00	1.16	1.03	0.00
pre-mRNA-splicing factor SLU7 pseudogene	LOC100767210	100767210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxylesterase 1D-like	LOC100767211	100767211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) RNA polymerase GLD2 pseudogene	LOC100767215	100767215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
condensin complex subunit 2-like	LOC100767216	100767216	0.05	0.08	0.06	0.03	0.04	0.03	2.28	4.58	3.73	1.16	2.07	1.87
olfactory receptor 52A5	LOC100767217	100767217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100767220	100767220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 4-like	LOC100767221	100767221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23-like	LOC100767222	100767222	0.29	0.31	0.29	0.35	0.24	0.22	7.60	5.49	4.97	4.64	4.14	4.67
olfactory receptor 52A1-like	LOC100767227	100767227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein kinase OSR1 pseudogene	LOC100767231	100767231	2.32	2.48	2.12	1.69	1.64	1.58	117.73	126.27	104.34	81.12	82.80	78.51
zinc finger protein 551-like	LOC100767232	100767232	1.37	1.41	1.44	1.89	1.83	1.47	90.39	88.76	94.40	119.37	114.88	99.07
prolactin-7C1-like	LOC100767233	100767233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 186-like	LOC100767240	100767240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serotransferrin-like	LOC100767241	100767241	14.16	13.71	15.33	14.53	14.91	15.13	1552.50	1514.38	1701.66	1601.63	1645.63	1667.45
speckle-type POZ protein pseudogene	LOC100767249	100767249	0.02	0.03	0.00	0.00	0.00	0.06	0.76	0.92	0.00	0.00	0.00	1.87
60S ribosomal protein L36a-like	LOC100767252	100767252	7.65	3.71	4.02	2.56	3.22	5.00	38.74	16.47	22.36	13.91	13.45	22.43

hyaluronidase PH-20-like	LOC100767253	100767253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein HMG-I/HMG-Y-like	LOC100767255	100767255	0.00	0.70	0.24	0.24	0.31	0.38	467.12	441.05	406.16	296.68	215.28	256.10
ribosome biogenesis protein NSA2 homolog pseudogene	LOC100767256	100767256	0.63	0.25	0.44	0.18	0.35	0.45	10.63	4.58	8.69	2.32	6.21	7.48
NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial pseudogene	LOC100767257	100767257	0.58	0.31	0.53	0.20	0.45	0.32	6.84	3.66	6.21	2.32	5.17	3.74
chromosome unknown open reading frame, human C9orf156	LOC100767259	100767259	8.05	7.23	6.81	5.80	5.47	5.74	373.69	333.07	327.91	275.82	259.78	276.66
membrane cofactor protein	LOC100767260	100767260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin G	LOC100767270	100767270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2 small nuclear ribonucleoprotein auxiliary factor 35 kDa subunit-related protein 1	LOC100767271	100767271	2.53	2.96	2.34	2.86	3.22	2.97	138.24	162.88	131.66	157.61	175.95	162.63
alpha-enolase pseudogene	LOC100767280	100767280	0.05	0.06	0.21	0.12	0.37	0.09	1.52	1.83	6.21	3.48	10.35	2.80
olfactory receptor 1052	LOC100767285	100767285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a	LOC100767286	100767286	157.18	181.55	165.72	94.64	79.49	68.74	546.87	619.48	515.47	341.88	322.92	288.81
chromosome unknown open reading frame, human C1orf110	LOC100767287	100767287	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100767289	100767289	5.59	5.93	6.26	7.12	7.89	6.77	452.69	481.31	527.89	586.41	665.50	570.15
disks large-associated protein 1	LOC100767291	100767291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 8C, mitochondrial	LOC100767292	100767292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptosomal-associated protein 23 pseudogene	LOC100767293	100767293	0.41	0.29	0.14	0.09	0.30	0.21	0.76	0.92	1.24	0.00	2.07	0.93
olfactory receptor 5V1	LOC100767296	100767296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cullin-4B-like	LOC100767300	100767300	0.65	0.53	0.54	0.54	0.39	0.55	41.02	33.86	34.78	33.61	24.84	34.58

elongation factor 1-gamma pseudogene	LOC100767302	100767302	0.00	0.16	0.14	0.12	0.08	0.05	0.00	4.58	4.97	1.16	2.07	1.87
homer protein homolog 2 pseudogene	LOC100767304	100767304	0.16	0.18	0.04	0.14	0.15	0.15	12.91	11.90	3.73	10.43	10.35	11.22
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100767307	100767307	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
prefoldin subunit 2-like	LOC100767309	100767309	0.09	0.00	0.00	0.00	0.12	0.00	0.76	0.00	1.24	1.16	1.03	0.00
synaptophysin-like protein 1 pseudogene	LOC100767311	100767311	1.75	1.67	1.66	1.52	1.19	1.67	42.53	41.18	40.99	34.77	28.98	42.99
cell division cycle-associated protein 3 pseudogene	LOC100767313	100767313	0.12	0.04	0.11	0.00	0.05	0.08	0.76	0.00	1.24	0.00	0.00	0.93
olfactory receptor 10Q1	LOC100767318	100767318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO-conjugating enzyme UBC9 pseudogene	LOC100767320	100767320	0.05	0.33	0.00	0.00	0.13	0.18	0.00	1.83	0.00	0.00	1.03	0.93
zinc finger protein 615-like	LOC100767322	100767322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF-like	LOC100767323	100767323	1.79	2.13	1.71	2.35	2.28	2.26	98.74	106.14	83.22	118.21	117.99	104.68
speedy protein B-like	LOC100767340	100767340	0.00	0.05	0.00	0.06	0.00	0.00	2.28	1.83	0.00	2.32	1.03	0.00
alcohol dehydrogenase 1-like	LOC100767342	100767342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
annexin A7 pseudogene	LOC100767344	100767344	0.12	0.11	0.09	0.04	0.02	0.07	7.60	8.24	4.97	2.32	1.03	2.80
Ig kappa chain V-III region MOPC 63-like	LOC100767346	100767346	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L5 pseudogene	LOC100767347	100767347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100767349	100767349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7A2, mitochondrial	LOC100767351	100767351	39.59	41.32	35.09	34.79	38.12	38.96	29.62	20.13	24.84	17.38	15.52	16.82
olfactory receptor 186	LOC100767352	100767352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

acyl-coenzyme A synthetase ACSM2, mitochondrial	LOC100767354	100767354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
epithelial chloride channel protein-like	LOC100767355	100767355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced protein with tetratricopeptide repeats 1-like	LOC100767358	100767358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100767360	100767360	0.00	0.00	0.10	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100767362	100767362	0.41	0.12	0.34	0.25	0.14	0.26	6.84	2.75	4.97	6.95	2.07	4.67
60S ribosomal protein L7 pseudogene	LOC100767369	100767369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L28-like	LOC100767372	100767372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
60S ribosome subunit biogenesis protein NIP7 homolog pseudogene	LOC100767376	100767376	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1-like	LOC100767385	100767385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock factor-binding protein 1 pseudogene	LOC100767389	100767389	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 3A9-like	LOC100767391	100767391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf45	LOC100767394	100767394	0.00	0.00	0.03	0.03	0.03	0.10	0.76	0.92	2.48	2.32	4.14	4.67
tenascin-X-like	LOC100767397	100767397	0.49	0.52	0.11	0.07	0.04	0.07	145.07	151.90	34.78	17.38	12.42	25.24
olfactory receptor 7G2-like	LOC100767401	100767401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable N-acetyltransferase 8B	LOC100767406	100767406	5.76	5.84	5.18	5.93	7.87	4.88	49.37	48.50	39.75	49.83	63.13	41.13
chromosome unknown open reading frame, human C1orf194	LOC100767413	100767413	1.50	1.61	0.35	0.34	1.04	0.60	22.03	26.54	6.21	11.59	16.56	11.22
olfactory receptor 6C3-like	LOC100767416	100767416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100767417	100767417	0.54	0.41	0.21	0.43	0.36	0.59	9.11	7.32	3.73	6.95	5.17	10.28

septin-7 pseudogene	LOC100767425	100767425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rRNA/tRNA 2'-O-methyltransferase fibrillarin-like protein 1	LOC100767429	100767429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein L3-like	LOC100767439	100767439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc transporter ZIP8	LOC100767442	100767442	42.77	41.96	40.50	37.32	40.55	40.65	1544.14	1505.23	1382.44	1393.02	1489.35	1453.41
Ig lambda-1 chain C region-like	LOC100767448	100767448	0.00	0.00	0.00	0.00	0.00	0.00						
heterogeneous nuclear ribonucleoprotein H-like	LOC100767454	100767454	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-3-like	LOC100767458	100767458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C18orf21	LOC100767460	100767460	30.21	32.18	33.46	33.35	33.43	34.55	783.84	831.77	876.91	852.97	867.32	875.79
40S ribosomal protein S27-like	LOC100767461	100767461	0.73	0.92	1.18	0.52	0.98	0.43	9.87	10.07	18.63	5.79	12.42	11.22
olfactory receptor 1N1	LOC100767473	100767473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3-like	LOC100767474	100767474	0.04	0.05	0.00	0.14	0.00	0.06	0.00	0.00	0.00	1.16	1.03	0.00
protein FRG2-like	LOC100767476	100767476	0.00	0.00	0.06	0.11	0.00	0.00	8.35	4.58	4.97	2.32	1.03	8.41
putative olfactory receptor 4A8	LOC100767480	100767480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proliferation-associated protein 2G4 pseudogene	LOC100767481	100767481	0.09	0.05	0.00	0.03	0.03	0.08	3.04	0.92	0.00	1.16	0.00	1.87
tRNA (guanine(26)-N(2))-dimethyltransferase pseudogene	LOC100767486	100767486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
isochorismatase domain-containing protein 2A, mitochondrial-like	LOC100767490	100767490	8.03	7.83	9.44	9.23	7.02	6.92	338.75	325.75	362.69	309.43	231.84	226.19
zinc finger protein 112-like	LOC100767491	100767491	1.99	2.92	2.13	2.36	1.60	1.82	20.51	28.37	17.39	22.02	11.38	12.15
MLV-related proviral Env polyprotein-like	LOC100767496	100767496	0.10	0.12	0.13	0.08	0.13	0.17	0.76	0.00	0.00	0.00	1.03	0.00

methyltransferase-like protein 25	LOC100767499	100767499	0.04	0.01	0.03	0.03	0.04	0.01	0.76	0.00	0.00	2.32	1.03	0.00
sentrin-specific protease 2 pseudogene	LOC100767500	100767500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52A1-like	LOC100767506	100767506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf78	LOC100767508	100767508	0.12	0.11	0.03	0.05	0.05	0.05	13.67	12.81	2.48	4.64	5.17	5.61
partner of Y14 and mago pseudogene	LOC100767509	100767509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 13-like	LOC100767510	100767510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insulin-induced gene 1 protein pseudogene	LOC100767511	100767511	0.04	0.10	0.07	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100767512	100767512	0.00	0.00	0.05	0.05	0.09	0.00	0.00	0.00	1.24	1.16	2.07	0.93
60S ribosomal protein L30-like	LOC100767516	100767516	0.26	0.00	0.22	0.21	0.37	0.17	1.52	0.92	1.24	1.16	2.07	0.93
olfactory receptor 52A5-like	LOC100767517	100767517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10K1-like	LOC100767521	100767521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIP41-like protein pseudogene	LOC100767522	100767522	2.19	2.27	2.59	0.83	0.97	0.87	60.00	60.39	59.62	18.54	19.66	16.82
vomeronasal type-1 receptor 4-like	LOC100767523	100767523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolactin-2A1-like	LOC100767524	100767524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P1-like	LOC100767529	100767529	606.01	601.22	573.12	312.19	131.72	156.03	3047.27	2905.23	2735.08	1450.97	618.92	740.26
glutathione S-transferase Mu 3	LOC100767530	100767530	3.47	3.47	9.37	8.98	13.74	12.06	105.58	99.74	272.02	282.78	404.68	352.37
olfactory receptor Olfr180	LOC100767532	100767532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase X	LOC100767536	100767536	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NADH dehydrogenase [ubiquinone] iron-sulfur protein 5 pseudogene	LOC100767544	100767544	0.00	0.16	0.23	0.00	0.19	0.00	0.00	0.92	1.24	0.00	1.03	0.00
60S ribosomal protein L18a pseudogene	LOC100767545	100767545	1.89	1.60	0.83	0.45	0.70	0.45	38.74	36.60	27.33	16.22	13.45	9.35
transmembrane protein 106A pseudogene	LOC100767549	100767549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
deoxyuridine 5'-triphosphate nucleotidohydrolase pseudogene	LOC100767560	100767560	0.25	0.20	0.41	0.13	0.12	0.10	2.28	1.83	3.73	1.16	1.03	2.80
chymase-like	LOC100767563	100767563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf25	LOC100767566	100767566	48.49	45.94	55.26	41.15	25.39	30.44	1133.23	1060.52	1259.48	822.83	419.17	538.37
olfactory receptor 1052-like	LOC100767577	100767577	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoside diphosphate kinase A 1 pseudogene	LOC100767579	100767579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B4-like	LOC100767584	100767584	0.51	0.34	0.00	0.03	0.00	0.00	22.03	12.81	0.00	1.16	0.00	0.00
neurogenic locus notch homolog protein 2 pseudogene	LOC100767588	100767588	0.07	0.12	0.01	0.06	0.08	0.04	3.04	8.24	1.24	2.32	3.10	0.93
aphrodisin-like	LOC100767590	100767590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18 pseudogene	LOC100767601	100767601	17.34	18.26	18.87	16.57	15.77	16.33	1986.20	1916.08	2178.62	2029.27	1416.90	1688.95
killer cell immunoglobulin-like receptor 3DL1	LOC100767604	100767604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ly-6/neurotoxin-like protein 1	LOC100767605	100767605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family A member 13-like	LOC100767606	100767606	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 9I1	LOC100767607	100767607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H4	LOC100767612	100767612	0.10	0.11	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100767613	100767613	1.96	2.49	2.29	1.86	2.38	1.18	22.03	23.79	23.60	18.54	25.87	11.22

chromosome unknown open reading frame, human C1orf168	LOC100767623	100767623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 10AC1	LOC100767629	100767629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha chain-like	LOC100767630	100767630	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	1.16	0.00	0.00
alcohol dehydrogenase 4	LOC100767633	100767633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
cytochrome P450 4A14-like	LOC100767636	100767636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cofilin-1 pseudogene	LOC100767637	100767637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100767638	100767638	0.20	0.30	0.20	0.08	0.17	0.19	83.55	99.74	70.80	77.65	109.71	114.03
H-2 class II histocompatibility antigen, E-U alpha chain	LOC100767639	100767639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5H2-like	LOC100767642	100767642	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
very low-density lipoprotein receptor	LOC100767645	100767645	28.65	27.08	30.03	33.57	32.72	31.58	2190.51	2147.58	2322.70	2678.26	2599.89	2489.03
histone RNA hairpin-binding protein pseudogene	LOC100767650	100767650	0.69	0.19	0.52	0.51	0.95	0.17	3.04	4.58	4.97	2.32	3.10	3.74
keratin, type I cytoskeletal 10	LOC100767651	100767651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 867	LOC100767654	100767654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase protein 20 homolog	LOC100767657	100767657	8.34	8.34	7.34	8.67	10.19	8.60	602.31	628.63	541.55	632.77	735.88	650.53
toll-like receptor 13	LOC100767676	100767676	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.92	0.00	0.00	0.00	1.87
nuclear pore complex protein Nup54 pseudogene	LOC100767677	100767677	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 2W6	LOC100767678	100767678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF-like	LOC100767679	100767679	3.15	3.01	2.96	3.23	3.23	3.31	204.32	204.97	209.91	219.04	216.31	222.45

adiponectin receptor protein 1-like	LOC100767683	100767683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
60S ribosomal protein L27 pseudogene	LOC100767689	100767689	0.36	0.66	0.40	0.39	0.34	0.16	2.28	3.66	2.48	2.32	2.07	0.93
probable N-acetyltransferase CML3	LOC100767690	100767690	34.37	34.75	42.27	41.76	39.45	39.14	1539.59	1507.98	1866.86	1816.03	1704.62	1786.15
steroid 21-hydroxylase	LOC100767691	100767691	0.02	0.02	0.00	0.00	0.00	0.03	1.52	0.92	0.00	0.00	0.00	0.93
olfactory receptor 7G2	LOC100767694	100767694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-processing factor 6	LOC100767706	100767706	139.49	141.32	116.10	111.09	117.57	123.62	6773.57	6849.94	5621.69	5430.70	5801.10	6037.97
protein AKNAD1-like	LOC100767707	100767707	0.08	0.13	0.05	0.13	0.11	0.03	33.42	37.52	18.63	13.91	14.49	13.09
olfactory receptor 6C3-like	LOC100767709	100767709	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf58	LOC100767713	100767713	5.68	6.22	3.68	3.29	4.40	3.47	499.02	543.53	332.88	289.73	393.29	307.51
chromosome unknown open reading frame, human C21orf62	LOC100767714	100767714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable tRNA N6-adenosine threonylcarbamoyltransferase, mitochondrial	LOC100767715	100767715	6.54	6.95	7.03	6.61	7.66	8.43	265.08	271.76	289.41	274.66	317.74	315.92
vesicle-associated membrane protein 4 pseudogene	LOC100767716	100767716	2.68	2.04	1.76	2.38	2.81	2.69	38.74	28.37	26.08	25.50	32.08	28.04
transcription factor Spi-C pseudogene	LOC100767718	100767718	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
apolipoprotein L2-like	LOC100767734	100767734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13G1	LOC100767735	100767735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysine-specific demethylase 4D-like	LOC100767737	100767737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-coenzyme A synthetase ACSM1, mitochondrial-like	LOC100767739	100767739	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
ADP-ribosylation factor-like protein 4D	LOC100767745	100767745	5.64	6.22	3.60	3.41	2.32	2.62	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 7G2-like	LOC100767746	100767746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6B2	LOC100767747	100767747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 170-like	LOC100767748	100767748	0.09	0.10	0.08	0.04	0.08	0.03	10.63	10.07	8.69	4.64	8.28	2.80
IQ domain-containing protein F5 pseudogene	LOC100767753	100767753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf216	LOC100767757	100767757	4.91	4.83	6.63	6.06	4.37	5.31	164.82	181.18	234.75	227.15	208.03	237.41
alpha-enolase-like	LOC100767766	100767766	0.52	0.52	0.61	0.26	0.42	0.40	6.84	6.41	6.21	1.16	5.17	6.54
olfactory receptor 1N2	LOC100767768	100767768	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 kDa heat shock protein, mitochondrial pseudogene	LOC100767769	100767769	5.26	2.63	2.36	1.49	2.02	2.09	31.90	22.88	18.63	9.27	10.35	14.02
zinc finger protein 60-like	LOC100767772	100767772	2.58	2.70	3.39	3.65	3.82	3.80	281.79	298.30	388.77	406.78	423.31	424.34
olfactory receptor 4A5-like	LOC100767774	100767774	0.07	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 variant 1-like	LOC100767776	100767776	0.00	0.00	0.00	0.00	0.27	0.00	21.27	36.60	27.33	23.18	19.66	31.78
60S ribosomal protein L4 pseudogene	LOC100767783	100767783	0.33	0.28	0.42	0.26	0.37	0.41	12.15	10.07	17.39	9.27	15.52	13.09
protein S100-A11 pseudogene	LOC100767786	100767786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small ubiquitin-related modifier 2 pseudogene	LOC100767791	100767791	24.09	31.12	35.34	22.89	14.89	14.39	142.79	168.37	162.71	92.71	53.82	59.82
protein Red pseudogene	LOC100767793	100767793	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
hemoglobin subunit beta	LOC100767796	100767796	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sperm-associated antigen 7 pseudogene	LOC100767800	100767800	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100767801	100767801	0.05	0.04	0.00	0.08	0.03	0.16	0.76	0.00	0.00	1.16	0.00	2.80

uncharacterized LOC100767803	LOC100767803	100767803	9.11	7.48	6.37	3.65	1.61	1.96	215.71	172.03	158.99	130.96	103.50	99.07
zona pellucida sperm-binding protein 4 pseudogene	LOC100767805	100767805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein SA pseudogene	LOC100767806	100767806	11.87	9.83	10.15	5.29	5.31	5.62	85.83	64.05	78.25	53.31	42.43	50.47
cytochrome b reductase 1	LOC100767807	100767807	8.61	8.72	11.59	12.50	14.73	14.44	1110.45	1124.58	1505.41	1614.38	1886.78	1872.14
olfactory receptor 150-like	LOC100767813	100767813	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AT-rich interactive domain-containing protein 4A-like	LOC100767815	100767815	0.05	0.06	0.00	0.29	0.06	0.06	3.80	2.75	3.73	6.95	1.03	2.80
uncharacterized LOC100767816	LOC100767816	100767816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase Mu 6-like	LOC100767818	100767818	0.08	0.06	0.04	0.00	0.00	0.03	5.32	7.32	1.24	2.32	2.07	5.61
olfactory receptor 187-like	LOC100767820	100767820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2/3 complex subunit 1B-like	LOC100767822	100767822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcium-activated chloride channel regulator 4-like	LOC100767824	100767824	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	1.87
nucleophosmin pseudogene	LOC100767826	100767826	0.11	0.13	0.06	0.00	0.00	0.04	2.28	2.75	1.24	0.00	0.00	0.93
UDP-glucose 6-dehydrogenase	LOC100767827	100767827	132.69	138.11	116.34	152.56	161.10	161.20	1967.21	2081.70	1799.78	2203.11	2433.25	2328.26
protein DDC8	LOC100767828	100767828	0.95	1.13	1.06	1.02	1.04	0.89	65.32	81.44	78.25	75.33	74.52	63.56
60S ribosomal protein L7 pseudogene	LOC100767832	100767832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase omega-1 pseudogene	LOC100767843	100767843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L13a pseudogene	LOC100767858	100767858	0.05	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 8H1-like	LOC100767861	100767861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

protein FAM49B-like	LOC100767863	100767863	46.49	44.76	28.87	31.42	33.65	32.50	1197.79	1188.63	760.16	820.52	854.90	842.14
zinc finger protein 260-like	LOC100767866	100767866	5.85	5.84	5.77	6.49	7.05	6.88	356.22	364.18	357.72	399.83	454.36	442.10
60S ribosomal protein L7a pseudogene	LOC100767868	100767868	4.02	3.77	2.62	2.94	3.43	2.61	18.23	34.77	18.63	13.91	31.05	14.02
olfactory receptor 1G1-like	LOC100767872	100767872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100767874	100767874	0.00	0.13	0.24	0.23	0.10	0.00	0.76	1.83	2.48	2.32	1.03	0.00
leucine-rich repeat-containing protein PRAME-like	LOC100767875	100767875	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100767876	LOC100767876	100767876	0.14	0.06	0.00	0.07	0.00	0.00	2.28	1.83	1.24	1.16	0.00	0.00
D-3-phosphoglycerate dehydrogenase pseudogene	LOC100767881	100767881	0.02	0.02	0.00	0.03	0.02	0.02	0.76	0.92	0.00	1.16	1.03	0.93
leukocyte immunoglobulin-like receptor subfamily B member 4	LOC100767889	100767889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L4 pseudogene	LOC100767890	100767890	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100767896	LOC100767896	100767896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100767898	100767898	4.78	4.17	5.77	6.78	6.85	5.87	272.67	243.40	336.61	388.24	381.91	346.76
vomeronasal type-1 receptor 4-like	LOC100767899	100767899	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C6	LOC100767900	100767900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitotic spindle assembly checkpoint protein MAD2B pseudogene	LOC100767902	100767902	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 21	LOC100767903	100767903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thyrotropin-releasing hormone receptor-like	LOC100767904	100767904	0.06	0.04	0.02	0.00	0.06	0.00	4.56	1.83	1.24	0.00	3.10	2.80
2'-5'-oligoadenylate synthase 1A-like	LOC100767905	100767905	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C16orf72	LOC100767915	100767915	29.85	27.16	29.46	31.95	30.64	30.83	1236.53	1146.54	1230.91	1326.96	1274.07	1271.15
copine-8	LOC100767916	100767916	35.47	38.84	42.39	40.99	48.21	46.28	1664.15	1718.43	1823.38	1907.58	2143.46	2062.82
signal recognition particle subunit SRP72 pseudogene	LOC100767918	100767918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100767920	LOC100767920	100767920	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4A14	LOC100767921	100767921	0.07	0.02	0.00	0.01	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
doublesex- and mab-3-related transcription factor C1-like	LOC100767922	100767922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100767926	LOC100767926	100767926	184.65	183.40	144.76	137.27	174.10	182.95	3068.54	3044.32	2398.47	2220.49	2797.57	2943.27
olfactory receptor 183-like	LOC100767927	100767927	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
hereditary hemochromatosis protein-like	LOC100767932	100767932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf2	LOC100767934	100767934	398.54	350.38	361.35	385.74	400.31	446.45	2228.49	1994.77	2060.62	2014.20	2194.17	2388.08
heterogeneous nuclear ribonucleoprotein K pseudogene	LOC100767941	100767941	0.02	0.06	0.11	0.04	0.00	0.00	2.28	1.83	3.73	3.48	0.00	0.00
chromosome unknown open reading frame, human C17orf58	LOC100767946	100767946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100767949	100767949	1.03	1.00	0.79	1.24	1.29	0.83	70.64	68.63	54.65	85.76	84.87	63.56
ATP synthase subunit e, mitochondrial-like	LOC100767951	100767951	0.46	0.37	0.00	0.00	0.00	0.20	2.28	1.83	1.24	1.16	0.00	0.93
putative RNA-binding protein Luc7-like 2	LOC100767953	100767953	154.40	157.31	145.90	149.98	161.00	158.76	10267.45	10548.51	9920.55	10237.90	10871.50	10719.73
uncharacterized protein FLJ43738-like	LOC100767956	100767956	0.51	0.56	0.32	0.28	0.47	0.57	94.18	105.23	67.07	66.06	90.04	92.53
importin subunit alpha-1-like	LOC100767960	100767960	0.04	0.03	0.09	0.04	0.02	0.07	3.04	1.83	4.97	2.32	1.03	3.74
protein SET-like	LOC100767966	100767966	0.03	0.17	0.13	0.05	0.05	0.04	0.76	2.75	2.48	1.16	0.00	0.00

olfactory receptor 2W1	LOC100767967	100767967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 49	LOC100767970	100767970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100767974	100767974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetyltransferase 8	LOC100767982	100767982	0.12	0.12	0.16	0.09	0.03	0.05	8.35	8.24	6.21	4.64	5.17	3.74
chondroitin sulfate synthase 3	LOC100767985	100767985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7G2-like	LOC100767986	100767986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf71	LOC100767988	100767988	7.09	8.06	6.90	3.19	1.84	1.14	84.31	93.33	86.95	48.67	24.84	22.43
putative spermatogenesis-associated protein 31D3	LOC100767989	100767989	0.01	0.01	0.00	0.00	0.02	0.00	0.76	1.83	0.00	0.00	2.07	0.00
probable N-acetyltransferase CML1	LOC100767993	100767993	5.44	5.11	5.55	4.16	3.28	4.33	73.68	58.56	70.80	54.47	39.33	54.21
leydig cell tumor 10 kDa protein-like	LOC100767994	100767994	0.00	0.00	0.00	0.35	0.00	0.28	0.00	0.00	0.00	1.16	0.00	0.93
cTAGE family member 5-like	LOC100767997	100767997	0.52	0.94	0.91	1.13	1.05	1.12	42.53	57.65	62.10	76.49	68.31	71.03
olfactory receptor 6C2-like	LOC100768003	100768003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4M1	LOC100768007	100768007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 2 subunit 3, Y-linked pseudogene	LOC100768010	100768010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphocyte antigen 6D-like	LOC100768011	100768011	0.89	0.85	0.30	0.29	0.72	1.02	28.10	21.96	6.21	9.27	21.73	29.91
protein KIBRA	LOC100768014	100768014	0.00	0.01	0.00	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	0.00
tubulin beta-6 chain pseudogene	LOC100768015	100768015	0.59	0.66	0.48	0.32	0.27	0.24	103.30	102.48	81.98	42.88	17.59	10.28
chromosome unknown open reading frame, human C6orf203	LOC100768017	100768017	17.55	18.17	19.93	19.26	19.62	19.19	542.31	562.75	612.35	591.05	602.36	584.17

protein FAM111A-like	LOC100768019	100768019	7.11	6.89	11.12	13.65	13.53	11.88	627.38	606.67	988.70	1209.91	1181.95	1061.78
60S ribosomal protein L32 pseudogene	LOC100768022	100768022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone-binding protein RBBP4 pseudogene	LOC100768023	100768023	0.05	0.14	0.19	0.08	0.23	0.08	25.06	22.88	16.15	17.38	40.36	28.97
melanoma-associated antigen B4-like	LOC100768024	100768024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
upstream-binding factor 1-like protein 1	LOC100768028	100768028	0.02	0.00	0.03	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
TP53-regulated inhibitor of apoptosis 1 pseudogene	LOC100768030	100768030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 24-like	LOC100768034	100768034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100768036	LOC100768036	100768036	14.26	14.33	15.36	16.23	13.94	15.46	1.52	3.66	2.48	1.16	5.17	0.00
olfactory receptor 6B2	LOC100768038	100768038	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C20orf202	LOC100768041	100768041	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ubiquitin-like protein FUBI pseudogene	LOC100768052	100768052	1.77	1.43	1.18	0.19	0.99	0.70	18.99	13.73	7.45	0.00	6.21	6.54
SLC2A4 regulator-like	LOC100768053	100768053	1.30	1.16	1.48	1.56	1.44	1.32	81.27	84.18	84.46	105.46	103.50	87.86
protein FAM60A pseudogene	LOC100768057	100768057	0.04	0.00	0.00	0.07	0.00	0.11	37.22	36.60	45.96	17.38	23.80	15.89
BRCA1-associated RING domain protein 1-like	LOC100768058	100768058	0.05	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain-containing protein 36A-like	LOC100768060	100768060	0.67	0.68	0.68	0.75	0.88	0.83	118.49	120.78	119.24	144.86	153.18	152.35
chromosome unknown open reading frame, human C5orf45	LOC100768063	100768063	12.64	12.69	15.21	12.47	9.66	10.35	432.18	441.96	517.95	428.80	329.13	372.00
olfactory receptor 4A5-like	LOC100768064	100768064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100768075	100768075	12.67	11.70	9.52	4.66	1.86	2.30	331.92	305.62	248.42	118.21	49.68	57.95

protein SPACA7-like	LOC100768076	100768076	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
dynein light chain Tctex-type 3 pseudogene	LOC100768077	100768077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P2 pseudogene	LOC100768083	100768083	0.00	0.14	0.00	0.00	0.00	0.00	0.76	2.75	1.24	1.16	0.00	0.00
olfactory receptor 52E4-like	LOC100768084	100768084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hemoglobin subunit beta-Y	LOC100768087	100768087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-defensin 10-like	LOC100768088	100768088	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	LOC100768089	100768089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin-E(2) 9-reductase-like	LOC100768090	100768090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
40S ribosomal protein S7 pseudogene	LOC100768094	100768094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
heterogeneous nuclear ribonucleoprotein A1-like	LOC100768095	100768095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO-activating enzyme subunit 2-like	LOC100768101	100768101	2.82	2.93	3.13	3.63	3.36	3.27	147.35	151.90	162.71	179.63	173.88	175.72
T-complex protein 1 subunit zeta pseudogene	LOC100768103	100768103	0.65	0.77	0.50	0.50	0.43	0.47	15.19	10.98	9.94	10.43	9.31	8.41
60 kDa heat shock protein, mitochondrial pseudogene	LOC100768104	100768104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 151	LOC100768108	100768108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutathione S-transferase Mu 6	LOC100768110	100768110	95.42	96.95	107.59	115.15	90.43	100.50	3032.84	3083.66	3429.40	3569.47	2823.44	3134.88
olfactory receptor Olfr180-like	LOC100768112	100768112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase ERas	LOC100768116	100768116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centrosomal protein C10orf90 homolog	LOC100768118	100768118	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

T-cell-interacting, activating receptor on myeloid cells protein 1-like	LOC100768119	100768119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 1A, Y-chromosomal-like	LOC100768123	100768123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100768125	100768125	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100768137	100768137	0.64	0.64	0.18	0.52	0.15	0.14	6.84	4.58	0.00	6.95	3.10	2.80
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100768140	100768140	15.47	15.20	15.21	9.69	15.43	10.16	231.66	172.03	161.47	114.73	178.02	172.91
cytochrome b-c1 complex subunit 10	LOC100768142	100768142	238.11	202.79	185.41	116.47	85.08	101.54	1958.09	1669.94	1490.50	881.94	673.78	781.38
POU domain, class 5, transcription factor 1-like	LOC100768143	100768143	0.00	0.00	0.00	0.00	0.00	0.09	0.76	6.41	1.24	0.00	2.07	4.67
tripeptidyl-peptidase 1 pseudogene	LOC100768144	100768144	0.55	0.48	0.46	0.50	0.61	0.44	28.86	20.13	31.05	24.34	41.40	30.84
chromosome unknown open reading frame, human C6orf163	LOC100768147	100768147	0.32	0.27	0.26	0.20	0.13	0.16	9.87	8.24	9.94	4.64	5.17	3.74
olfactory receptor 8I2	LOC100768151	100768151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO-conjugating enzyme UBC9-B pseudogene	LOC100768155	100768155	6.24	6.65	5.72	5.10	2.80	3.49	47.09	54.90	48.44	46.36	18.63	28.97
cytokine receptor-like factor 3	LOC100768156	100768156	0.43	0.34	0.27	0.23	0.39	0.31	10.63	8.24	3.73	4.64	7.24	6.54
protein SET-like	LOC100768157	100768157	1.11	1.28	1.07	0.79	0.88	0.32	18.99	27.45	19.87	18.54	21.73	7.48
V-type proton ATPase subunit G 1 pseudogene	LOC100768159	100768159	3.96	3.63	1.90	1.45	2.54	3.01	38.74	37.52	21.12	12.75	27.94	26.17
chromosome unknown open reading frame, human C7orf50	LOC100768160	100768160	24.90	26.02	29.35	27.19	19.76	22.59	1007.91	1076.08	1243.33	1110.25	811.43	920.65
olfactory receptor 12D2-like	LOC100768162	100768162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear RNA export factor 2-like	LOC100768165	100768165	0.11	0.22	0.00	0.00	0.02	0.00	8.35	17.39	0.00	1.16	1.03	0.00
neurotrophin receptor-interacting factor 1-like	LOC100768170	100768170	8.62	8.46	7.72	8.16	8.55	8.03	506.61	488.63	460.81	504.13	524.74	500.05

E3 ubiquitin-protein ligase RNF138	LOC100768178	100768178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FANCD2 opposite strand protein-like	LOC100768181	100768181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hypothetical protein	LOC100768182	100768182	12.53	14.57	11.56	10.25	9.00	8.01	407.11	461.18	367.66	319.86	279.45	248.62
zinc finger protein 431-like	LOC100768184	100768184	0.16	0.24	0.17	0.37	0.25	0.22	6.08	8.24	8.69	16.22	8.28	7.48
histone H2A type 1-H-like	LOC100768185	100768185	1.14	1.10	0.17	0.32	0.43	0.42	38.74	38.43	12.42	18.54	20.70	14.02
vomeronasal type-1 receptor 1-like	LOC100768187	100768187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C3	LOC100768188	100768188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2'-5'-oligoadenylate synthase 1A-like	LOC100768193	100768193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stress-induced-phosphoprotein 1 pseudogene	LOC100768194	100768194	0.17	0.18	0.21	0.20	0.37	0.09	6.84	7.32	9.94	8.11	14.49	3.74
uncharacterized LOC100768195	LOC100768195	100768195	20.89	23.34	30.46	34.94	28.47	23.80	147.35	158.30	191.28	212.08	207.00	168.24
40S ribosomal protein S13-like	LOC100768197	100768197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf211	LOC100768199	100768199	14.17	14.60	14.79	15.40	15.63	14.54	884.86	910.46	927.84	960.74	966.68	922.52
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100768205	100768205	0.77	1.26	1.18	0.44	0.72	0.49	9.11	11.90	13.66	3.48	7.24	1.87
melanoma-associated antigen 10	LOC100768206	100768206	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
proteasome activator complex subunit 3 pseudogene	LOC100768208	100768208	0.94	1.34	0.80	0.40	0.71	0.71	11.39	15.56	9.94	3.48	8.28	8.41
cytochrome P450 4A14	LOC100768211	100768211	0.34	0.18	0.02	0.01	0.00	0.00	25.06	12.81	1.24	0.00	0.00	0.93
uncharacterized LOC100768212	LOC100768212	100768212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf174	LOC100768214	100768214	49.95	49.70	52.33	48.08	38.53	42.97	1740.10	1738.56	1813.45	1667.69	1333.06	1487.06

Krueppel-like factor 17 pseudogene	LOC100768216	100768216	0.00	0.04	0.00	0.00	0.05	0.09	0.76	0.92	0.00	1.16	2.07	2.80
olfactory receptor 187-like	LOC100768217	100768217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcineurin-like phosphoesterase domain-containing protein 1 pseudogene	LOC100768221	100768221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative heterogeneous nuclear ribonucleoprotein A1-like 3	LOC100768224	100768224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ornithine decarboxylase pseudogene	LOC100768232	100768232	0.26	0.30	0.39	0.67	1.08	0.67	23.55	26.54	34.78	47.52	68.31	53.28
hepatoma-derived growth factor-related protein 2	LOC100768234	100768234	41.50	40.62	47.74	37.91	28.35	32.08	2712.31	2707.58	3108.94	2433.73	1818.47	2003.93
leucine-rich repeat-containing protein 40 pseudogene	LOC100768236	100768236	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerase III subunit RPC9 pseudogene	LOC100768237	100768237	0.00	0.09	0.24	0.00	0.10	0.09	0.00	0.92	2.48	0.00	2.07	0.93
apoptogenic protein 1, mitochondrial pseudogene	LOC100768245	100768245	0.18	0.15	0.00	0.19	0.08	0.15	3.80	2.75	0.00	2.32	1.03	1.87
60S ribosomal protein L39 pseudogene	LOC100768246	100768246	374.72	355.71	283.43	301.39	303.69	312.98	262.80	207.71	168.92	164.57	178.02	216.84
uricase	LOC100768251	100768251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2W1-like	LOC100768256	100768256	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor Spi-C-like	LOC100768261	100768261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C12orf10	LOC100768264	100768264	55.85	59.21	61.53	56.48	49.15	53.11	1879.10	1981.05	2104.10	1876.29	1645.63	1739.42
CD177 antigen-like	LOC100768266	100768266	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
60S ribosomal protein L27-like	LOC100768273	100768273	222.24	234.67	169.05	129.49	162.39	125.54	443.57	533.46	351.51	257.28	326.02	200.02
polyubiquitin-like	LOC100768274	100768274	1.64	0.92	1.37	0.81	0.56	1.46	8.35	6.41	13.66	5.79	2.07	3.74
chromosome unknown open reading frame, human C17orf85	LOC100768275	100768275	5.31	6.03	6.63	7.08	6.67	6.27	411.67	491.37	536.58	578.30	524.74	515.00

iron-sulfur cluster assembly 1 homolog, mitochondrial-like	LOC100768277	100768277	2.19	2.67	2.38	2.46	3.11	1.87	123.80	140.00	152.78	184.27	226.66	152.35
hepatoma-derived growth factor-related protein 3	LOC100768278	100768278	21.97	21.68	19.41	20.70	22.38	19.56	807.39	795.16	721.65	778.79	809.36	725.30
cTAGE family member 5-like	LOC100768287	100768287	0.03	0.08	0.09	0.06	0.11	0.03	1.52	0.00	4.97	2.32	6.21	4.67
uncharacterized LOC100768288	LOC100768288	100768288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C2-like	LOC100768293	100768293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 258 pseudogene	LOC100768295	100768295	0.89	0.90	0.50	0.25	0.21	0.59	7.60	13.73	9.94	12.75	5.17	8.41
probable ribosome biogenesis protein RLP24 pseudogene	LOC100768296	100768296	0.09	0.06	0.00	0.37	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
olfactory receptor 4N4-like	LOC100768298	100768298	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
vomeronasal secretory protein 2-like	LOC100768300	100768300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100768301	LOC100768301	100768301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vigilin-like	LOC100768304	100768304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3 pseudogene	LOC100768310	100768310	0.00	0.11	0.00	0.14	0.00	0.00	183.81	207.71	160.23	245.69	161.46	150.48
amine oxidase [flavin-containing] A-like	LOC100768311	100768311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HRAS-like suppressor 3	LOC100768312	100768312	0.06	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 93-like	LOC100768314	100768314	2.48	2.45	2.80	3.66	4.00	3.74	255.21	250.72	301.83	374.33	418.13	388.82
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100768318	100768318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) polymerase alpha pseudogene	LOC100768320	100768320	0.46	0.28	0.21	0.20	0.21	0.23	14.43	4.58	3.73	8.11	4.14	6.54
cytochrome c oxidase subunit 5B, mitochondrial	LOC100768321	100768321	236.03	220.80	181.50	167.56	147.59	167.79	2782.19	2676.47	2125.21	1865.86	1697.38	1884.29

keratin, type I cytoskeletal 18 pseudogene	LOC100768324	100768324	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100768326	100768326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6B2	LOC100768327	100768327	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(rC)-binding protein 2	LOC100768330	100768330	4.70	3.96	4.77	3.80	4.33	4.22	170.14	139.09	173.89	125.16	129.37	146.74
UPF0568 protein C14orf166 homolog	LOC100768335	100768335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1L8	LOC100768346	100768346	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 4A5	LOC100768353	100768353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proliferating cell nuclear antigen-like	LOC100768360	100768360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S17-like	LOC100768364	100768364	0.78	0.79	0.89	0.92	0.34	0.52	7.60	7.32	7.45	6.95	2.07	4.67
hepatitis A virus cellular receptor 1 homolog	LOC100768366	100768366	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
retinal dehydrogenase 1-like	LOC100768367	100768367	0.81	0.95	0.52	0.59	0.35	0.48	27.34	35.69	22.36	22.02	10.35	17.76
protocadherin alpha-C2-like	LOC100768371	100768371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52A1-like	LOC100768372	100768372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-alpha-hydroxysteroid dehydrogenase-like	LOC100768376	100768376	0.03	0.00	0.05	0.00	0.00	0.00	0.76	0.92	1.24	0.00	1.03	0.00
vinexin	LOC100768383	100768383	37.82	36.22	38.74	33.36	27.11	28.23	1762.89	1695.56	1808.48	1506.60	1264.75	1312.28
olfactory receptor 151	LOC100768392	100768392	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyridoxal kinase	LOC100768396	100768396	25.26	24.70	23.34	17.20	14.80	15.74	904.61	873.86	868.22	639.72	548.54	567.34
zinc finger protein 2	LOC100768401	100768401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

eukaryotic translation initiation factor 5 pseudogene	LOC100768403	100768403	0.11	0.00	0.00	0.00	0.00	0.00	5.32	0.00	1.24	1.16	0.00	1.87
60S ribosomal protein L39 pseudogene	LOC100768409	100768409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CKLF-like MARVEL transmembrane domain-containing protein 2B	LOC100768411	100768411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC100768416	100768416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit g, mitochondrial pseudogene	LOC100768418	100768418	0.00	0.00	0.16	0.16	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 27 pseudogene	LOC100768425	100768425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cubilin-like	LOC100768431	100768431	12.29	12.65	13.95	14.87	15.81	14.78	1260.08	1324.05	1461.94	1547.16	1645.63	1515.10
olfactory receptor 8H1	LOC100768432	100768432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen D1	LOC100768434	100768434	61.39	64.57	74.63	68.85	54.19	56.11	5041.82	5303.53	6195.53	5643.94	4483.56	4614.46
60S acidic ribosomal protein P0 pseudogene	LOC100768435	100768435	47.80	51.94	38.38	19.95	10.69	13.08	375.97	410.85	313.01	157.61	85.90	102.81
interferon-inducible GTPase 1	LOC100768437	100768437	0.00	0.00	0.00	0.04	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
zinc finger protein 709-like	LOC100768439	100768439	1.03	1.09	1.58	1.60	1.77	1.67	83.55	86.93	125.45	124.00	139.72	130.85
olfactory receptor 12D2	LOC100768442	100768442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain-containing protein 10 pseudogene	LOC100768443	100768443	2.29	2.17	1.93	1.62	2.42	2.16	2.28	1.83	2.48	2.32	6.21	0.00
protein SET-like	LOC100768445	100768445	0.79	0.56	1.04	0.43	0.59	0.33	18.23	18.30	28.57	12.75	14.49	13.09
neurotrophin receptor-interacting factor 2-like	LOC100768449	100768449	16.77	16.28	17.14	18.46	17.00	17.07	1207.67	1174.90	1265.69	1386.07	1240.95	1295.45
adenosylhomocysteinase pseudogene	LOC100768450	100768450	0.09	0.05	0.04	0.00	0.03	0.00	3.04	2.75	1.24	0.00	1.03	0.00
gametocyte-specific factor 1-like	LOC100768452	100768452	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1 pseudogene	LOC100768453	100768453	0.27	0.45	0.20	0.21	0.30	0.22	0.00	0.92	1.24	0.00	1.03	1.87
neuroepithelial cell-transforming gene 1 protein pseudogene	LOC100768454	100768454	0.26	0.31	0.17	0.19	0.11	0.19	6.08	9.15	6.21	6.95	3.10	6.54
leukocyte immunoglobulin-like receptor subfamily B member 4	LOC100768455	100768455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 6B1	LOC100768457	100768457	17.63	24.13	16.64	17.19	13.52	16.71	381.29	414.51	324.18	295.52	241.15	285.07
nucleolin-like	LOC100768459	100768459	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
activated RNA polymerase II transcriptional coactivator p15 pseudogene	LOC100768461	100768461	1.37	1.38	0.76	0.73	1.38	0.19	13.67	13.73	8.69	6.95	13.45	1.87
histone H2B type 1-K	LOC100768462	100768462	5.93	5.38	6.19	2.89	1.72	2.56	0.00	0.00	0.00	0.00	0.00	0.00
putative zinc finger protein 56	LOC100768463	100768463	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100768464	100768464	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C3	LOC100768465	100768465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2'-5'-oligoadenylate synthase 1A-like	LOC100768468	100768468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100768472	100768472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ovostatin homolog	LOC100768475	100768475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c-like	LOC100768478	100768478	16.30	16.51	11.09	10.54	13.02	9.83	61.52	58.56	34.78	34.77	39.33	40.19
60S ribosomal protein L12	LOC100768480	100768480	44.06	50.20	52.21	44.15	30.36	24.77	500.54	576.47	593.72	489.06	339.48	278.53
40S ribosomal protein S8 pseudogene	LOC100768483	100768483	8.12	4.17	4.27	3.30	3.39	5.16	114.69	59.48	59.62	46.36	46.57	72.90
protein FAM111A-like	LOC100768487	100768487	12.13	13.90	13.18	16.57	19.27	16.99	675.99	766.80	730.35	914.39	1067.07	953.36
uncharacterized LOC100768488	LOC100768488	100768488	0.74	0.94	0.00	0.06	0.00	0.00	39.50	40.26	2.48	6.95	0.00	1.87

uncharacterized LOC100768489	LOC100768489	100768489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-structural maintenance of chromosomes element 4 homolog A pseudogene	LOC100768491	100768491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low molecular weight phosphotyrosine protein phosphatase pseudogene	LOC100768494	100768494	0.09	0.32	0.00	0.14	0.00	0.22	0.76	2.75	0.00	1.16	0.00	1.87
peptidyl-prolyl cis-trans isomerase-like 2 pseudogene	LOC100768503	100768503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
probable G-protein coupled receptor 162	LOC100768504	100768504	1.00	1.15	1.24	0.91	0.61	0.76	85.83	96.99	113.03	104.30	92.11	74.77
protein DDX26B-like	LOC100768508	100768508	0.09	0.06	0.15	0.22	0.00	0.23	1.52	2.75	4.97	5.79	0.00	3.74
glycerol-3-phosphate dehydrogenase 1-like protein	LOC100768514	100768514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase type IVA 2 pseudogene	LOC100768516	100768516	29.86	25.27	22.91	22.41	27.93	27.79	37.98	40.26	52.17	38.24	45.54	24.30
citrate synthase, mitochondrial pseudogene	LOC100768524	100768524	0.75	0.45	0.71	0.50	0.74	1.12	101.02	107.97	144.08	86.92	76.59	107.49
olfactory receptor 2T33-like	LOC100768525	100768525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gastrokine-3	LOC100768527	100768527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L32	LOC100768529	100768529	45.54	47.70	48.68	42.68	45.78	50.24	217.99	208.63	231.03	154.14	203.89	187.87
immunity-related GTPase family M protein 1-like	LOC100768530	100768530	0.03	0.02	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
protein-tyrosine sulfotransferase 2 pseudogene	LOC100768533	100768533	0.00	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.24	0.00	1.03	0.00
cytospin-A	LOC100768534	100768534	28.30	29.29	22.86	22.67	24.03	23.84	2610.54	2717.65	2133.91	2090.69	2172.44	2213.30
olfactory receptor 2B11	LOC100768538	100768538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 883-like	LOC100768540	100768540	0.55	0.41	0.66	0.58	0.61	0.44	53.17	43.92	69.56	60.26	61.06	52.34
40S ribosomal protein S4-like	LOC100768543	100768543	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ADP/ATP translocase 2 pseudogene	LOC100768544	100768544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease H2 subunit B pseudogene	LOC100768548	100768548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIP18 family protein FAM96A-like	LOC100768550	100768550	0.20	0.12	0.17	0.00	0.57	0.53	0.76	0.92	4.97	1.16	4.14	4.67
40S ribosomal protein S13-like	LOC100768552	100768552	2.11	3.00	1.89	1.92	2.36	2.20	18.99	27.45	14.91	15.07	19.66	16.82
glutathione S-transferase theta-1	LOC100768553	100768553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase 2B-like	LOC100768554	100768554	1.01	1.19	1.68	1.66	2.59	1.96	56.21	59.48	88.19	86.92	127.30	104.68
selenoprotein K pseudogene	LOC100768561	100768561	0.00	0.42	0.00	0.00	0.00	1.39	9.87	13.73	11.18	13.91	20.70	19.63
U7 snRNA-associated Sm-like protein LSm10	LOC100768568	100768568	9.06	8.16	11.91	10.22	6.12	8.82	0.76	0.92	0.00	1.16	1.03	0.00
cTAGE family member 5	LOC100768570	100768570	50.86	49.97	44.26	49.86	54.69	48.82	2408.50	2326.93	2212.16	2516.02	2641.29	2352.56
histone H2A.Z pseudogene	LOC100768571	100768571	5.10	5.29	3.40	2.00	1.49	1.73	83.55	79.61	49.68	26.66	17.59	21.50
olfactory receptor 6C2-like	LOC100768575	100768575	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4N4	LOC100768582	100768582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2 member H-like	LOC100768583	100768583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 9-1-like	LOC100768585	100768585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-centractin pseudogene	LOC100768586	100768586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100768589	100768589	0.00	0.03	0.00	0.00	0.04	0.03	0.76	0.92	0.00	0.00	1.03	1.87
FERM domain-containing protein 8	LOC100768591	100768591	26.78	27.24	28.31	25.02	19.83	20.99	1209.19	1219.74	1293.01	1098.66	880.77	935.60
C-type lectin domain family 10 member A-like	LOC100768594	100768594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

actin-like protein 9	LOC100768597	100768597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial-like	LOC100768602	100768602	0.02	0.02	0.03	0.00	0.00	0.06	0.76	0.92	1.24	0.00	0.00	2.80
keratin, type I cytoskeletal 18 pseudogene	LOC100768607	100768607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-5-like	LOC100768608	100768608	0.02	0.04	0.06	0.03	0.02	0.04	0.00	0.00	1.24	0.00	0.00	0.00
olfactory receptor 12	LOC100768611	100768611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HCLS1-associated protein X-1 pseudogene	LOC100768612	100768612	0.16	0.28	0.13	0.18	0.16	0.00	5.32	5.49	3.73	3.48	6.21	6.54
histone deacetylase 1-like	LOC100768614	100768614	12.60	14.13	14.67	14.94	15.32	14.32	774.73	850.98	893.06	932.93	936.66	875.79
eukaryotic translation initiation factor 4B pseudogene	LOC100768620	100768620	0.22	0.24	0.05	0.08	0.13	0.02	12.91	12.81	2.48	4.64	7.24	3.74
ADP/ATP translocase 2-like	LOC100768623	100768623	0.98	0.92	0.68	0.87	1.09	0.34	37.22	35.69	21.12	28.97	32.08	8.41
immunoglobulin omega chain	LOC100768624	100768624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf63	LOC100768630	100768630	0.76	0.77	0.96	0.95	1.20	1.19	78.99	79.61	106.82	96.19	146.97	132.72
olfactory receptor 1L4	LOC100768631	100768631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf47	LOC100768636	100768636	8.04	8.04	9.44	6.83	4.37	4.76	447.37	454.77	531.61	396.35	260.82	280.40
olfactory receptor 4A5-like	LOC100768638	100768638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
enhancer of rudimentary homolog	LOC100768642	100768642	4.38	3.23	3.54	1.58	2.72	2.51	31.14	20.13	22.36	10.43	16.56	10.28
serine/arginine-rich splicing factor 10-like	LOC100768649	100768649	0.83	1.05	0.37	0.72	0.42	0.57	8.35	10.98	3.73	8.11	4.14	5.61
60S ribosomal protein L39 pseudogene	LOC100768650	100768650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hepatitis A virus cellular receptor 1 homolog	LOC100768653	100768653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

retinal dehydrogenase 1	LOC100768654	100768654	0.71	0.93	0.26	0.34	0.42	0.55	22.79	29.28	11.18	8.11	14.49	21.50
eukaryotic translation initiation factor 1 pseudogene	LOC100768657	100768657	0.50	1.20	0.68	0.65	0.57	0.46	10.63	13.73	7.45	3.48	3.10	3.74
mitochondrial inner membrane protein COX18	LOC100768660	100768660	16.15	16.34	16.88	17.12	20.08	18.31	653.20	667.97	684.39	696.51	796.94	727.17
olfactory receptor 51B6	LOC100768662	100768662	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldo-keto reductase family 1 member C18	LOC100768666	100768666	0.03	0.00	0.00	0.04	0.00	0.03	0.76	0.00	1.24	2.32	0.00	0.93
mortality factor 4-like protein 2	LOC100768671	100768671	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamate carboxypeptidase 2	LOC100768684	100768684	1.27	1.41	0.80	0.79	1.31	0.89	114.69	127.19	72.04	71.85	113.85	76.64
cytochrome P450 20A1	LOC100768685	100768685	74.73	78.37	62.65	67.31	70.60	67.92	4004.29	4191.77	3316.37	3505.73	3676.27	3552.68
sperm motility kinase X-like	LOC100768691	100768691	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin L1	LOC100768693	100768693	187.40	186.27	134.50	140.29	179.33	173.60	7383.48	7484.97	5416.74	5506.03	7054.47	6736.16
CKLF-like MARVEL transmembrane domain-containing protein 2B	LOC100768702	100768702	0.14	0.17	0.17	0.32	0.29	0.34	6.08	5.49	9.94	11.59	9.31	12.15
mediator of RNA polymerase II transcription subunit 10 pseudogene	LOC100768705	100768705	0.00	0.28	0.59	0.38	0.17	0.30	1.52	3.66	3.73	5.79	1.03	3.74
taste receptor type 2 member 125-like	LOC100768708	100768708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC100768710	100768710	5.11	5.28	2.98	0.80	1.74	2.35	53.17	47.58	23.60	12.75	12.42	21.50
chromosome unknown open reading frame, human C19orf67	LOC100768711	100768711	0.00	0.00	0.00	0.00	0.03	0.00	5.32	2.75	3.73	9.27	3.10	0.93
mitochondrial fission regulator 2 pseudogene	LOC100768713	100768713	0.07	0.12	0.16	0.19	0.13	0.09	3.80	3.66	6.21	10.43	4.14	3.74
60S ribosomal protein L19 pseudogene	LOC100768721	100768721	5.71	5.29	2.30	2.57	2.24	1.69	78.23	70.46	33.54	33.61	28.98	22.43
olfactory receptor 1094	LOC100768722	100768722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

vomeronasal type-1 receptor 4-like	LOC100768723	100768723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 38	LOC100768730	100768730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2W1	LOC100768731	100768731	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf83	LOC100768732	100768732	0.25	0.26	0.00	0.11	0.10	0.09	28.86	22.88	36.02	35.93	50.71	44.86
olfactory receptor 11A1	LOC100768733	100768733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable G-protein coupled receptor 160	LOC100768734	100768734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf172	LOC100768738	100768738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L10-like	LOC100768740	100768740	30.58	32.73	30.11	23.70	23.54	21.53	195.20	236.08	207.43	170.36	173.88	154.22
chromosome unknown open reading frame, human C19orf18	LOC100768742	100768742	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93
histone-binding protein RBBP4 pseudogene	LOC100768743	100768743	4.57	5.27	5.68	5.18	5.15	5.49	142.79	157.39	178.86	171.52	156.28	186.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100768747	100768747	3.11	2.17	0.83	1.25	0.92	0.85	32.66	21.96	8.69	11.59	6.21	7.48
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100768749	100768749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100768755	100768755	0.67	0.47	1.65	1.48	2.47	1.81	23.55	20.13	50.93	46.36	74.52	66.36
histone H4	LOC100768756	100768756	0.05	0.03	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100768757	LOC100768757	100768757	0.03	0.03	0.00	0.00	0.00	0.00	3.04	0.92	1.24	2.32	0.00	1.87
olfactory receptor 6C3	LOC100768759	100768759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin-7-like	LOC100768760	100768760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C15orf65	LOC100768761	100768761	2.37	2.63	2.23	3.02	3.04	3.08	40.26	44.84	37.26	47.52	47.61	49.54

2'-5'-oligoadenylate synthase 1A-like	LOC100768763	100768763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
scavenger receptor cysteine-rich type 1 protein M130-like	LOC100768770	100768770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100768774	100768774	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating-like	LOC100768776	100768776	24.48	30.20	34.26	35.63	39.09	41.54	479.27	572.81	638.43	637.41	702.76	736.52
chromosome unknown open reading frame, human C20orf85	LOC100768777	100768777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
activated RNA polymerase II transcriptional coactivator p15 pseudogene	LOC100768778	100768778	2.80	2.04	0.89	0.93	1.12	0.91	18.99	17.39	7.45	6.95	8.28	7.48
protein FAM111A-like	LOC100768782	100768782	4.60	4.43	4.36	4.49	6.14	5.35	332.68	326.67	321.70	333.77	438.83	391.63
cytochrome P450 4A10	LOC100768783	100768783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
malignant T-cell-amplified sequence 1-like	LOC100768786	100768786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
centrosomal protein of 104 kDa	LOC100768787	100768787	20.77	19.87	20.94	20.77	22.47	22.74	2070.50	1999.35	2100.37	2066.35	2241.78	2299.29
vomeronasal type-2 receptor 116-like	LOC100768789	100768789	0.03	0.02	0.02	0.00	0.07	0.00	1.52	0.92	1.24	1.16	4.14	0.93
aphrodisin-like	LOC100768791	100768791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100768795	100768795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable ribosome biogenesis protein RLP24 pseudogene	LOC100768797	100768797	0.25	0.45	0.62	0.59	0.40	0.47	1.52	2.75	4.97	4.64	3.10	3.74
trypsin-4-like	LOC100768799	100768799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human CXorf56	LOC100768804	100768804	15.63	15.76	14.73	15.32	17.78	17.54	1573.01	1572.94	1481.81	1521.66	1753.27	1754.38
sodium channel protein type 2 subunit alpha	LOC100768810	100768810	1.77	1.97	1.28	1.54	1.86	1.73	437.49	479.48	294.37	360.42	444.01	412.19
mth938 domain-containing protein pseudogene	LOC100768813	100768813	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

lysophosphatidylcholine acyltransferase 2B	LOC100768815	100768815	0.22	0.24	0.20	0.16	0.20	0.23	34.18	32.03	22.36	25.50	20.70	29.91
40S ribosomal protein S3 pseudogene	LOC100768818	100768818	0.30	1.22	0.42	0.10	0.50	0.18	4.56	22.88	9.94	2.32	7.24	3.74
gastrokine-2	LOC100768823	100768823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-inducible GTPase 1-like	LOC100768826	100768826	0.07	0.03	0.00	0.00	0.01	0.01	6.08	2.75	0.00	0.00	1.03	0.93
40S ribosomal protein SA pseudogene	LOC100768830	100768830	0.00	0.00	0.06	0.00	0.05	0.00	14.43	4.58	9.94	6.95	9.31	15.89
histone H3.3-like	LOC100768834	100768834	3.05	2.94	1.29	1.86	1.05	1.22	122.29	108.89	100.61	39.40	20.70	20.56
zinc finger protein 39-like	LOC100768835	100768835	10.40	9.35	10.79	12.82	14.37	12.77	1434.77	1281.05	1478.08	1752.29	1943.70	1731.01
40S ribosomal protein S13 pseudogene	LOC100768839	100768839	0.78	0.71	0.78	0.31	0.55	0.42	2.28	0.92	3.73	0.00	0.00	0.93
serine/threonine-protein kinase ULK3-like	LOC100768843	100768843	0.10	0.14	0.17	0.07	0.09	0.10	2.28	0.92	1.24	3.48	3.10	1.87
protein diaphanous homolog 2-like	LOC100768845	100768845	3.99	4.24	5.90	6.50	5.35	5.44	185.33	185.75	258.35	273.51	233.91	237.41
olfactory receptor 1	LOC100768855	100768855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uridine-cytidine kinase 1 pseudogene	LOC100768857	100768857	0.02	0.15	0.16	0.05	0.00	0.04	0.00	3.66	2.48	1.16	0.00	0.93
60S ribosomal protein L10-like	LOC100768864	100768864	1.87	1.69	1.89	0.46	1.80	0.58	22.79	20.13	23.60	5.79	22.77	7.48
POU domain, class 5, transcription factor 1 pseudogene	LOC100768867	100768867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C2	LOC100768871	100768871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import inner membrane translocase subunit Tim23	LOC100768872	100768872	65.53	65.40	67.56	66.63	65.35	62.72	4719.78	4846.93	4929.84	4848.92	4692.63	4492.96
selenoprotein K pseudogene	LOC100768875	100768875	0.00	0.33	0.46	0.00	0.39	0.00	0.00	0.92	1.24	0.00	1.03	0.00
olfactory receptor 4K2-like	LOC100768878	100768878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C-type lectin domain family 2 member H-like	LOC100768879	100768879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-1	LOC100768881	100768881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 11B2, mitochondrial	LOC100768882	100768882	0.59	0.44	0.11	0.26	0.15	0.00	1.52	0.00	0.00	0.00	0.00	2.80
la-related protein 7-like	LOC100768885	100768885	2.66	2.51	2.08	2.12	1.71	2.22	97.98	106.14	86.95	99.67	74.52	97.21
histone H3.3-like	LOC100768887	100768887	85.54	77.57	67.15	56.10	43.46	45.23	1233.49	1123.66	976.28	813.56	642.73	673.90
multifunctional protein ADE2-like	LOC100768891	100768891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal protein S6 kinase beta-1 pseudogene	LOC100768892	100768892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L32	LOC100768894	100768894	13.22	11.25	11.64	10.85	13.21	10.19	75.19	52.16	48.44	30.13	41.40	49.54
60S ribosomal protein L29 pseudogene	LOC100768896	100768896	0.00	0.00	0.00	0.12	0.00	0.00	0.76	0.92	0.00	1.16	1.03	0.00
NKG2D ligand 1-like	LOC100768899	100768899	0.11	0.17	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
mitofusin-1 pseudogene	LOC100768900	100768900	0.01	0.01	0.03	0.06	0.04	0.00	0.00	0.00	1.24	2.32	2.07	0.00
leucine zipper putative tumor suppressor 3	LOC100768902	100768902	5.14	5.13	5.99	5.28	3.37	3.71	521.80	519.74	635.95	579.46	360.18	406.58
eukaryotic translation initiation factor 4E pseudogene	LOC100768904	100768904	0.09	0.30	0.10	0.10	0.17	0.12	0.76	2.75	1.24	1.16	2.07	0.93
dnaJ homolog subfamily C member 8 pseudogene	LOC100768905	100768905	0.09	0.05	0.21	0.07	0.00	0.00	1.52	0.92	3.73	1.16	0.00	0.00
40S ribosomal protein S21	LOC100768921	100768921	157.45	155.65	112.67	35.72	30.82	25.08	478.51	524.31	393.74	122.85	130.41	98.14
phosphatidylinositol-glycan biosynthesis class X protein-like	LOC100768926	100768926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A5-like	LOC100768931	100768931	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MORC family CW-type zinc finger protein 2B	LOC100768935	100768935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

coiled-coil domain-containing protein 106-like	LOC100768938	100768938	0.41	0.11	0.14	0.05	0.04	0.07	18.99	17.39	14.91	9.27	3.10	6.54
interferon-inducible GTPase 5-like	LOC100768939	100768939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.93
40S ribosomal protein S23 pseudogene	LOC100768940	100768940	1.37	0.89	0.35	1.03	1.19	0.27	36.46	48.50	29.81	24.34	27.94	22.43
JNK1/MAPK8-associated membrane protein pseudogene	LOC100768941	100768941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM154A	LOC100768943	100768943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L29 pseudogene	LOC100768944	100768944	0.09	0.15	0.00	0.15	0.13	0.00	0.76	0.92	0.00	1.16	1.03	0.00
protocadherin alpha-3-like	LOC100768950	100768950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52Z1-like	LOC100768953	100768953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51B6	LOC100768956	100768956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-defensin 23-like	LOC100768957	100768957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldo-keto reductase family 1 member C13-like	LOC100768959	100768959	0.09	0.11	0.31	0.27	0.28	0.37	8.35	6.41	19.87	16.22	15.52	20.56
prolactin-releasing peptide	LOC100768961	100768961	0.35	0.42	0.85	0.64	0.81	0.60	15.19	13.73	45.96	38.24	41.40	40.19
uncharacterized protein CXorf49 homolog	LOC100768963	100768963	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
NHP2-like protein 1 pseudogene	LOC100768965	100768965	7.04	5.53	6.39	6.06	2.88	4.05	91.14	86.01	89.43	74.17	30.01	41.13
alpha-fetoprotein	LOC100768980	100768980	0.30	0.56	0.07	0.09	0.33	0.13	23.55	38.43	4.97	5.79	17.59	10.28
eukaryotic translation initiation factor 1 pseudogene	LOC100768984	100768984	46.57	45.20	37.88	34.85	38.27	41.70	202.80	198.56	177.62	171.52	202.86	219.65
proteasome subunit beta type-3 pseudogene	LOC100768986	100768986	0.06	0.22	0.27	0.00	0.00	0.00	0.00	0.92	2.48	0.00	1.03	0.00
taste receptor type 2 member 14-like	LOC100768995	100768995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cytochrome c, somatic pseudogene	LOC100768996	100768996	30.72	33.11	29.67	18.02	14.99	12.94	231.66	239.74	216.12	118.21	107.64	79.45
olfactory receptor 141	LOC100769008	100769008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM60A pseudogene	LOC100769009	100769009	0.09	0.03	0.00	0.04	0.13	0.09	0.76	0.00	0.00	0.00	1.03	0.93
zinc finger protein 431-like	LOC100769014	100769014	3.50	3.16	3.99	3.76	4.75	4.08	299.26	269.02	360.21	324.50	407.78	357.04
maltase-glucoamylase, intestinal-like	LOC100769016	100769016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
cytochrome c oxidase assembly protein COX19	LOC100769017	100769017	16.67	15.01	13.01	13.69	11.32	15.34	413.19	367.84	314.25	332.61	291.87	364.52
olfactory receptor 10C1	LOC100769019	100769019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S11-like	LOC100769020	100769020	1.56	1.13	1.17	0.50	0.65	0.40	15.95	10.98	11.18	5.79	9.31	4.67
aromatase	LOC100769024	100769024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 1-like	LOC100769026	100769026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycosylation-dependent cell adhesion molecule 1	LOC100769029	100769029	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
LIM and senescent cell antigen-like-containing domain protein 1 pseudogene	LOC100769031	100769031	0.09	0.15	0.10	0.10	0.00	0.04	12.15	11.90	4.97	5.79	0.00	2.80
N-acetylated-alpha-linked acidic dipeptidase 2	LOC100769032	100769032	0.03	0.04	0.03	0.00	0.00	0.00	3.80	2.75	2.48	0.00	1.03	3.74
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100769033	100769033	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chloride intracellular channel protein 4 pseudogene	LOC100769035	100769035	0.10	0.08	0.00	0.00	0.02	0.00	5.32	2.75	3.73	2.32	3.10	0.93
vomeronasal type-2 receptor 116-like	LOC100769036	100769036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 1	LOC100769039	100769039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100769041	100769041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

mucin-2-like	LOC100769042	100769042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2'-5'-oligoadenylate synthase 1A-like	LOC100769045	100769045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 pseudogene	LOC100769046	100769046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100769061	100769061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S25 pseudogene	LOC100769062	100769062	2.65	3.70	3.57	2.52	2.77	1.63	18.99	26.54	26.08	17.38	17.59	11.22
cancer/testis antigen 55-like	LOC100769068	100769068	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 52K2	LOC100769069	100769069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100769073	100769073	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.93
60S acidic ribosomal protein P0 pseudogene	LOC100769074	100769074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100769075	100769075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100769080	100769080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC100769084	100769084	1.25	1.06	1.26	1.30	1.51	0.81	8.35	6.41	7.45	4.64	9.31	4.67
zinc finger protein 75D-like	LOC100769086	100769086	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphocyte antigen 75	LOC100769089	100769089	0.52	0.60	0.48	0.66	0.93	0.91	97.98	118.95	90.67	129.80	174.91	180.39
60S ribosomal protein L35a pseudogene	LOC100769094	100769094	10.90	8.21	8.02	8.41	10.86	12.20	49.37	43.92	36.02	39.40	51.75	46.73
60S acidic ribosomal protein P0-like	LOC100769096	100769096	335.96	321.02	283.50	190.04	115.62	132.06	2102.40	3036.08	3112.67	2769.82	2356.66	1644.08
ATPase Asna1 pseudogene	LOC100769101	100769101	1.40	1.36	1.08	1.02	1.05	1.09	6.84	10.98	6.21	11.59	11.38	9.35
protein max-like	LOC100769102	100769102	0.18	0.00	0.30	0.15	0.26	0.12	1.52	0.00	2.48	1.16	2.07	0.93

interferon-inducible GTPase 1	LOC100769106	100769106	0.25	0.19	0.19	0.27	0.13	0.14	20.51	21.05	13.66	20.86	12.42	14.95
DNA polymerase nu	LOC100769107	100769107	1.23	0.94	1.08	1.30	1.90	1.46	71.40	61.31	55.89	93.87	130.41	105.62
ATP synthase subunit e, mitochondrial-like	LOC100769111	100769111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase-like	LOC100769114	100769114	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human C5orf30	LOC100769115	100769115	16.39	15.54	17.37	19.35	21.40	19.93	1251.72	1198.69	1361.33	1496.17	1631.14	1523.51
vomeronasal type-2 receptor 116-like	LOC100769116	100769116	0.00	0.03	0.02	0.02	0.03	0.00	1.52	3.66	1.24	3.48	5.17	0.93
transmembrane protein 50A pseudogene	LOC100769121	100769121	0.51	0.43	0.56	0.21	0.25	0.11	54.69	46.67	48.44	64.90	50.71	58.88
actin-related protein 2/3 complex subunit 1B	LOC100769123	100769123	0.92	0.79	0.76	0.46	1.05	0.73	34.94	32.03	32.29	15.07	28.98	18.69
olfactory receptor-like protein I9	LOC100769132	100769132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
periphilin-1 pseudogene	LOC100769134	100769134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L30-like	LOC100769135	100769135	0.47	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
chymotrypsinogen B	LOC100769139	100769139	0.00	0.00	0.14	0.00	0.12	0.05	0.00	0.00	3.73	1.16	3.10	0.93
liver carboxylesterase 4-like	LOC100769145	100769145	0.08	0.16	0.00	0.02	0.06	0.00	8.35	11.90	0.00	1.16	3.10	0.93
vacuolar fusion protein CCZ1 homolog	LOC100769148	100769148	38.77	39.81	30.39	35.36	37.09	34.23	2044.68	2119.22	1613.47	1845.00	1915.76	1804.85
olfactory receptor 6C2-like	LOC100769149	100769149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region 2B4-like	LOC100769151	100769151	0.00	0.00	0.00	0.00	0.00	0.00						
kelch domain-containing protein 3 pseudogene	LOC100769152	100769152	0.03	0.04	0.00	0.05	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
toll-like receptor 11	LOC100769156	100769156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

mortality factor 4-like protein 1 pseudogene	LOC100769157	100769157	0.37	0.33	0.23	0.10	0.06	0.04	7.60	8.24	4.97	3.48	1.03	0.93
chromosome unknown open reading frame, human C8orf58	LOC100769160	100769160	0.33	0.45	0.48	0.39	0.78	0.69	17.47	25.62	26.08	20.86	42.43	42.99
baculoviral IAP repeat-containing protein 5-like	LOC100769162	100769162	48.45	47.91	36.20	23.02	9.79	9.52	332.68	317.52	240.96	140.23	61.06	58.88
complex I intermediate-associated protein 30, mitochondrial pseudogene	LOC100769163	100769163	0.12	0.04	0.00	0.00	0.00	0.00	3.04	1.83	3.73	1.16	1.03	0.00
vomeronasal type-2 receptor 26-like	LOC100769167	100769167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bystin-like	LOC100769168	100769168	0.88	0.66	0.40	0.77	0.57	0.91	23.55	12.81	22.36	17.38	14.49	26.17
olfactory receptor 1537-like	LOC100769173	100769173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein sprouty homolog 2-like	LOC100769177	100769177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDGSH iron-sulfur domain-containing protein 1 pseudogene	LOC100769178	100769178	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100769181	100769181	0.00	0.00	0.00	0.00	0.58	0.00	1.52	0.92	0.00	0.00	1.03	0.00
olfactory receptor 12	LOC100769183	100769183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100769187	100769187	0.04	0.15	0.21	0.03	0.06	0.11	1.52	8.24	9.94	2.32	5.17	4.67
40S ribosomal protein SA-like	LOC100769188	100769188	1.05	1.08	0.64	0.52	0.46	0.71	47.09	51.24	28.57	20.86	20.70	31.78
protein HIRA	LOC100769195	100769195	47.61	46.66	51.65	51.20	44.35	48.86	5633.50	5634.78	6268.81	6187.47	5351.91	5817.38
eukaryotic translation initiation factor 2 subunit 2 pseudogene	LOC100769197	100769197	0.81	1.32	0.52	0.58	0.79	0.23	23.55	38.43	13.66	17.38	21.73	6.54
putative vomeronasal receptor-like protein 4	LOC100769206	100769206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100769208	100769208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4A16-like	LOC100769209	100769209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100769212	LOC100769212	100769212	0.03	0.05	0.02	0.00	0.00	0.00	2.28	2.75	2.48	1.16	3.10	0.93
40S ribosomal protein S4, X isoform-like	LOC100769213	100769213	48.99	48.65	39.60	32.00	41.39	37.43	217.23	227.84	156.50	124.00	152.14	129.92
olfactory receptor 11A1-like	LOC100769216	100769216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 39-like	LOC100769218	100769218	3.20	3.37	4.40	5.02	5.17	4.55	265.08	277.26	361.45	418.37	429.52	377.61
hepatitis A virus cellular receptor 1 homolog	LOC100769223	100769223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-2-like	LOC100769226	100769226	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid receptor subunit beta-3	LOC100769227	100769227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52Z1-like	LOC100769229	100769229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA exonuclease 1 homolog	LOC100769230	100769230	0.02	0.05	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.00
olfactory receptor 6C75	LOC100769232	100769232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I1-like	LOC100769233	100769233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
60S ribosomal protein L9 pseudogene	LOC100769235	100769235	0.13	0.23	0.32	0.10	0.18	0.16	1.52	2.75	3.73	1.16	2.07	1.87
aldo-keto reductase family 1 member C13	LOC100769236	100769236	0.13	0.05	1.12	1.16	1.28	0.90	4.56	1.83	43.47	41.72	43.47	34.58
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100769244	100769244	0.69	0.64	0.88	0.34	0.45	0.88	6.08	3.66	6.21	1.16	3.10	2.80
uncharacterized LOC100769246	LOC100769246	100769246	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC100769247	100769247	0.06	0.14	0.09	0.18	0.24	0.14	2.28	2.75	1.24	2.32	7.24	2.80
acylcarnitine hydrolase	LOC100769250	100769250	0.89	0.92	0.09	0.11	0.19	0.32	77.47	79.61	7.45	11.59	16.56	27.11
small nuclear ribonucleoprotein E	LOC100769251	100769251	3.30	3.34	3.34	4.00	3.38	1.05	7.60	10.07	2.48	9.27	6.21	2.80

cytochrome P450 4B1	LOC100769255	100769255	0.26	0.26	0.19	0.33	0.13	0.27	21.27	19.22	13.66	24.34	11.38	20.56
myosin-8	LOC100769257	100769257	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100769258	LOC100769258	100769258	1.25	1.46	0.66	0.90	0.86	1.10	78.23	87.84	42.23	60.26	54.85	71.03
U8 snoRNA-decapping enzyme-like	LOC100769259	100769259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3	LOC100769262	100769262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100769263	100769263	0.11	0.10	0.25	0.14	0.03	0.08	2.28	2.75	2.48	4.64	1.03	1.87
doublesex- and mab-3-related transcription factor C1-like	LOC100769265	100769265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thymidine kinase, cytosolic pseudogene	LOC100769272	100769272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S27-like	LOC100769275	100769275	10.88	13.23	10.86	6.91	11.20	7.25	27.34	33.86	28.57	15.07	25.87	15.89
40S ribosomal protein S3a pseudogene	LOC100769276	100769276	5.18	4.64	5.04	4.25	4.60	3.57	50.13	43.92	48.44	41.72	44.50	34.58
epididymal-specific lipocalin-8-like	LOC100769278	100769278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37	LOC100769283	100769283	0.22	0.00	0.00	0.38	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 1019	LOC100769286	100769286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerases I, II, and III subunit RPABC1 pseudogene	LOC100769289	100769289	0.00	0.08	0.00	0.00	0.09	0.00	0.76	0.92	0.00	0.00	1.03	0.93
olfactory receptor 8H1-like	LOC100769293	100769293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2B type 1-M-like	LOC100769295	100769295	0.58	0.23	0.40	0.29	0.21	0.07	3.04	0.00	1.24	1.16	0.00	0.00
chromosome unknown open reading frame, human C1orf111	LOC100769297	100769297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf71	LOC100769300	100769300	2.47	2.66	2.92	3.15	3.29	2.92	248.37	266.27	290.65	309.43	329.13	289.75

F-actin-capping protein subunit beta pseudogene	LOC100769302	100769302	0.60	0.56	0.42	0.49	0.47	0.26	12.15	10.07	7.45	9.27	9.31	4.67
maltase-glucoamylase, intestinal-like	LOC100769303	100769303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2H2	LOC100769306	100769306	0.03	0.00	0.00	0.09	0.02	0.07	3.04	5.49	0.00	5.79	1.03	4.67
eukaryotic translation initiation factor 1 pseudogene	LOC100769308	100769308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
dihydropyrimidinase-related protein 5 pseudogene	LOC100769315	100769315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/arginine repetitive matrix protein 2-like	LOC100769321	100769321	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100769323	100769323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M-phase inducer phosphatase 3 pseudogene	LOC100769324	100769324	0.02	0.05	0.10	0.06	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D3 pseudogene	LOC100769326	100769326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf166	LOC100769327	100769327	135.09	137.76	151.61	169.85	174.31	166.48	3049.55	3159.61	3425.68	3699.27	3823.24	3686.34
protocadherin-3-like	LOC100769329	100769329	1.37	1.19	1.08	1.12	0.94	0.79	88.87	79.61	74.53	69.54	61.06	53.28
histone H2B type 1	LOC100769330	100769330	9.60	8.97	9.74	4.53	2.15	3.69	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100769332	100769332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 pseudogene	LOC100769333	100769333	0.01	0.00	0.11	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
2'-5'-oligoadenylate synthase 1A-like	LOC100769335	100769335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial-like	LOC100769339	100769339	0.09	0.03	0.06	0.03	0.02	0.03	0.76	0.00	2.48	0.00	0.00	0.00
grifin	LOC100769345	100769345	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
chromosome unknown open reading frame, human C9orf69	LOC100769349	100769349	15.47	14.67	12.20	12.41	14.24	15.76	979.81	936.99	785.00	804.29	915.96	1015.05

speckle-type POZ protein pseudogene	LOC100769351	100769351	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
interferon alpha-12	LOC100769352	100769352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromobox protein homolog 3 pseudogene	LOC100769356	100769356	0.36	0.43	0.43	0.62	0.32	0.36	3.04	1.83	3.73	9.27	1.03	1.87
chromosome unknown open reading frame, human C1orf116	LOC100769359	100769359	0.11	0.11	0.15	0.47	0.24	0.46	6.84	6.41	11.18	26.66	15.52	25.24
putative olfactory receptor 52P1	LOC100769360	100769360	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
adenylate kinase 4, mitochondrial pseudogene	LOC100769363	100769363	0.60	0.95	0.54	1.07	0.52	0.75	9.11	15.56	8.69	13.91	7.24	11.22
copine-8-like	LOC100769364	100769364	3.61	3.62	2.12	0.78	0.67	0.21	17.47	19.22	12.42	5.79	3.10	1.87
uncharacterized LOC100769366	LOC100769366	100769366	29.00	24.19	26.99	25.63	32.40	20.85	229.38	211.37	252.14	256.12	290.83	240.21
PRAME family member 14-like	LOC100769369	100769369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100769371	LOC100769371	100769371	4.76	4.95	4.15	4.43	5.02	6.52	72.92	73.20	62.10	73.01	85.90	91.60
G/T mismatch-specific thymine DNA glycosylase-like	LOC100769374	100769374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease P protein subunit p30 pseudogene	LOC100769375	100769375	0.00	0.11	0.15	0.07	0.00	0.00	0.00	1.83	2.48	2.32	1.03	0.00
vomeronasal type-1 receptor 4	LOC100769379	100769379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf146	LOC100769388	100769388	0.60	0.53	0.23	0.60	0.03	0.07	31.14	26.54	11.18	23.18	1.03	2.80
40S ribosomal protein S3a-like	LOC100769398	100769398	0.21	0.28	0.00	0.15	0.05	0.05	3.80	4.58	0.00	2.32	0.00	0.93
RNA polymerase II subunit A C-terminal domain phosphatase SSU72	LOC100769403	100769403	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SSX5-like	LOC100769405	100769405	0.00	0.00	0.00	0.00	0.00	0.06	6.84	5.49	3.73	5.79	3.10	3.74
major urinary protein 20-like	LOC100769407	100769407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

vomeronasal type-2 receptor 116-like	LOC100769409	100769409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100769411	100769411	0.21	0.61	0.28	0.03	0.07	0.02	60.76	21.96	17.39	5.79	3.10	11.22
synaptobrevin homolog YKT6-like	LOC100769416	100769416	0.21	0.51	0.30	0.19	0.25	0.15	2.28	6.41	3.73	2.32	4.14	1.87
olfactory receptor-like protein I9	LOC100769420	100769420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100769422	100769422	8.15	6.52	5.33	4.24	5.15	5.39	835.49	687.19	644.64	683.76	688.27	723.43
olfactory receptor 5K1-like	LOC100769425	100769425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AE1-like	LOC100769429	100769429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
liver carboxylesterase 1-like	LOC100769432	100769432	6.48	6.26	4.10	4.28	6.98	8.10	385.09	376.08	248.42	260.76	417.10	484.16
cytochrome c, somatic pseudogene	LOC100769435	100769435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 Q2-like	LOC100769437	100769437	3.32	3.24	4.09	3.99	4.23	4.49	117.73	115.29	144.08	139.07	146.97	157.96
olfactory receptor 4Q3	LOC100769441	100769441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2 member H-like	LOC100769442	100769442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-like	LOC100769443	100769443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 9-1-like	LOC100769444	100769444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras-related protein Ral-A pseudogene	LOC100769446	100769446	0.05	0.06	0.00	0.08	0.00	0.00	0.76	0.92	0.00	1.16	1.03	0.00
olfactory receptor 958	LOC100769448	100769448	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.92	0.00	0.00	2.07	0.00
heat shock protein HSP 90-beta pseudogene	LOC100769452	100769452	0.05	0.05	0.02	0.02	0.05	0.02	2.28	3.66	2.48	0.00	2.07	2.80
malignant fibrous histiocytoma-amplified sequence 1 homolog	LOC100769453	100769453	0.05	0.04	0.04	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

phosphatidylinositol N-acetylglucosaminyltransferase subunit P	LOC100769454	100769454	4.49	3.58	3.62	2.76	2.30	3.61	45.57	29.28	37.26	20.86	19.66	28.04
C-X-C chemokine receptor type 1	LOC100769459	100769459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxytocin-neurophysin 1	LOC100769463	100769463	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 12	LOC100769467	100769467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TSC22 domain family protein 1	LOC100769471	100769471	181.75	176.64	119.44	113.92	128.07	133.96	8286.57	8084.32	5471.39	5181.53	5813.52	6131.43
P2Y purinoceptor 14	LOC100769482	100769482	0.05	0.03	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC100769483	100769483	3.32	4.41	5.06	2.36	2.99	1.03	36.46	50.33	59.62	26.66	34.15	9.35
14-3-3 protein theta pseudogene	LOC100769487	100769487	11.68	11.33	7.80	4.87	6.91	5.77	212.67	238.82	157.75	45.20	54.85	43.93
single-stranded DNA-binding protein, mitochondrial pseudogene	LOC100769491	100769491	2.13	2.03	1.51	1.82	1.76	1.89	9.87	11.90	7.45	5.79	12.42	6.54
zinc finger protein 791-like	LOC100769498	100769498	2.58	2.43	2.92	3.41	3.38	3.43	176.97	164.71	197.49	222.51	222.52	234.60
protein EMSY pseudogene	LOC100769499	100769499	0.14	0.13	0.08	0.06	0.10	0.08	5.32	4.58	3.73	2.32	6.21	0.93
olfactory receptor 11A1-like	LOC100769503	100769503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
early activation antigen CD69	LOC100769507	100769507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-1-like	LOC100769514	100769514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S-adenosylmethionine decarboxylase proenzyme-like	LOC100769515	100769515	18.82	16.86	19.29	18.87	18.90	18.74	887.14	823.53	982.49	957.27	942.87	952.43
olfactory receptor 6C6	LOC100769519	100769519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100769520	100769520	46.46	49.07	43.68	41.68	39.26	35.74	778.53	843.66	775.06	784.59	760.71	719.70
beta-defensin 14	LOC100769521	100769521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

aldo-keto reductase family 1 member C13	LOC100769523	100769523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermine synthase pseudogene	LOC100769528	100769528	2.40	2.52	2.89	2.58	2.44	2.71	1.52	0.92	1.24	0.00	0.00	2.80
methyl-CpG-binding domain protein 6 pseudogene	LOC100769530	100769530	0.62	0.60	0.69	0.49	0.41	0.36	3.04	1.83	6.21	0.00	2.07	2.80
nesprin-1-like	LOC100769533	100769533	0.01	0.02	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	1.87
nucleophosmin pseudogene	LOC100769543	100769543	22.34	25.02	21.71	20.93	20.48	18.84	354.70	390.72	319.22	338.40	329.13	305.64
GRB2-associated-binding protein 2 pseudogene	LOC100769546	100769546	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC100769549	100769549	0.14	0.16	0.00	0.00	0.00	0.00	1.52	1.83	1.24	3.48	1.03	0.93
deoxyuridine 5'-triphosphate nucleotidohydrolase pseudogene	LOC100769551	100769551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 2 pseudogene	LOC100769553	100769553	0.84	0.78	0.51	0.52	0.66	0.61	0.76	1.83	0.00	0.00	1.03	0.00
BRCA1-A complex subunit Abraxas-like	LOC100769554	100769554	15.72	20.14	24.75	27.12	26.20	26.38	195.20	260.78	325.43	362.74	349.83	351.44
Uncharacterized protein R102.4	LOC100769555	100769555	1.74	1.88	0.39	0.27	0.22	0.37	102.54	107.97	19.87	15.07	12.42	19.63
protein LSM14 homolog A pseudogene	LOC100769557	100769557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein ARMCX6-like	LOC100769560	100769560	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 homolog 4 pseudogene	LOC100769561	100769561	2.49	1.96	1.79	1.26	1.31	3.20	28.86	23.79	22.36	17.38	18.63	31.78
uncharacterized LOC100769564	LOC100769564	100769564	48.08	45.94	48.13	48.83	44.49	48.37	1724.91	1673.60	1849.47	1800.96	1671.50	1840.36
chromosome unknown open reading frame, human C4orf51	LOC100769565	100769565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 116-like	LOC100769568	100769568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2B type 3-A	LOC100769575	100769575	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

coronin-2A-like	LOC100769578	100769578	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L34 pseudogene	LOC100769580	100769580	0.87	0.87	1.10	0.65	0.71	0.57	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 8H3-like	LOC100769581	100769581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 1-H-like	LOC100769583	100769583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 4E pseudogene	LOC100769584	100769584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf96	LOC100769587	100769587	0.00	0.00	0.00	0.01	0.04	0.01	3.04	2.75	6.21	11.59	11.38	6.54
heterogeneous nuclear ribonucleoprotein F-like	LOC100769589	100769589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor E4F1	LOC100769603	100769603	7.32	7.10	7.51	7.26	6.47	6.15	93.42	95.16	94.40	103.14	93.15	102.81
40S ribosomal protein S25	LOC100769604	100769604	13.79	12.01	9.68	7.08	8.50	9.21	72.16	66.80	62.10	32.45	54.85	41.13
chromatin target of PRMT1 protein pseudogene	LOC100769606	100769606	0.33	0.33	0.36	0.00	0.00	0.07	6.84	8.24	14.91	2.32	5.17	7.48
serine/arginine repetitive matrix protein 2-like	LOC100769609	100769609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 5	LOC100769611	100769611	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ral guanine nucleotide dissociation stimulator-like	LOC100769614	100769614	0.00	0.08	0.00	0.00	0.00	0.04	2.28	2.75	1.24	2.32	1.03	1.87
protocadherin beta-4-like	LOC100769617	100769617	0.06	0.13	0.08	0.09	0.07	0.05	3.04	7.32	4.97	9.27	6.21	4.67
putative vomeronasal receptor-like protein 4	LOC100769618	100769618	0.11	0.18	0.13	0.08	0.09	0.06	8.35	10.07	7.45	3.48	5.17	6.54
zinc finger protein interacting with ribonucleoprotein K	LOC100769620	100769620	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box/WD repeat-containing protein 11-like	LOC100769623	100769623	0.17	0.08	0.00	0.10	0.09	0.04	3.04	1.83	0.00	2.32	2.07	0.93
2'-5'-oligoadenylate synthase 1A-like	LOC100769624	100769624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

kinesin-like protein KIF19	LOC100769633	100769633	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
tubulin alpha-1B chain-like	LOC100769637	100769637	0.06	0.05	0.00	0.00	0.05	0.00	0.76	0.92	0.00	0.00	1.03	0.00
interferon alpha-12-like	LOC100769640	100769640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfotransferase 1A1	LOC100769643	100769643	0.13	0.10	0.10	0.12	0.10	0.11	7.60	6.41	6.21	8.11	5.17	6.54
olfactory receptor 52M1-like	LOC100769648	100769648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2	LOC100769650	100769650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf19	LOC100769651	100769651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11H6	LOC100769653	100769653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1537-like	LOC100769655	100769655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 6 pseudogene	LOC100769658	100769658	0.20	0.33	0.22	0.11	0.28	0.13	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51G2-like	LOC100769659	100769659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inhibitor of growth protein 1-like	LOC100769662	100769662	32.57	29.73	38.29	35.65	24.41	21.76	381.29	351.37	459.57	414.89	281.52	246.75
cancer/testis antigen 55-like	LOC100769665	100769665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERM domain-containing protein 3-like	LOC100769667	100769667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly [ADP-ribose] polymerase 14-like	LOC100769670	100769670	0.11	0.10	0.13	0.12	0.20	0.17	1.52	2.75	2.48	0.00	4.14	0.00
olfactory receptor 2A12	LOC100769676	100769676	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermine synthase	LOC100769680	100769680	2.52	2.60	2.41	3.16	2.67	2.91	8.35	7.32	2.48	23.18	7.24	13.09
small EDRK-rich factor 1 pseudogene	LOC100769682	100769682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

voltage-dependent anion-selective channel protein 1 pseudogene	LOC100769683	100769683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2V2	LOC100769684	100769684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf48	LOC100769685	100769685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L13a pseudogene	LOC100769689	100769689	0.32	0.29	0.40	0.08	0.07	0.20	3.80	3.66	4.97	1.16	1.03	2.80
chromosome unknown open reading frame, human C9orf131	LOC100769690	100769690	0.01	0.02	0.00	0.02	0.00	0.01	0.76	1.83	0.00	2.32	0.00	0.93
vomeronasal type-2 receptor 116-like	LOC100769694	100769694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C22orf15	LOC100769698	100769698	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UPF0587 protein C1orf123 homolog	LOC100769700	100769700	4.76	5.37	7.02	4.70	4.92	5.78	42.53	45.75	57.14	35.93	42.43	46.73
olfactory receptor 1496-like	LOC100769703	100769703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mTERF domain-containing protein 1, mitochondrial pseudogene	LOC100769704	100769704	0.15	0.31	0.17	0.00	0.07	0.19	2.28	4.58	2.48	0.00	2.07	2.80
NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial-like	LOC100769705	100769705	0.13	0.05	0.07	0.07	0.12	0.16	3.80	2.75	2.48	1.16	1.03	3.74
olfactory receptor 5K3	LOC100769708	100769708	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AE1-like	LOC100769712	100769712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M pseudogene	LOC100769714	100769714	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
liver carboxylesterase 1	LOC100769715	100769715	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C2	LOC100769718	100769718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf53	LOC100769719	100769719	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
RNMT-activating mini protein pseudogene	LOC100769723	100769723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87

olfactory receptor 4K2	LOC100769725	100769725	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2 member E-like	LOC100769726	100769726	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 9-7-like	LOC100769728	100769728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyrethroid hydrolase Ces2e-like	LOC100769732	100769732	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8G2	LOC100769733	100769733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A-like	LOC100769751	100769751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras association domain-containing protein 1	LOC100769756	100769756	46.81	40.73	49.64	45.28	39.47	39.29	1758.33	1544.58	1866.86	1692.02	1474.86	1487.99
heat shock cognate 71 kDa protein pseudogene	LOC100769770	100769770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17	LOC100769775	100769775	88.86	93.70	97.31	93.35	86.42	78.29	416.99	444.71	498.08	419.53	401.57	364.52
olfactory receptor 4C6-like	LOC100769777	100769777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 14-like	LOC100769782	100769782	1.91	1.68	2.18	2.31	2.54	2.29	119.25	111.63	144.08	150.66	155.25	142.07
histone RNA hairpin-binding protein-like	LOC100769783	100769783	0.13	0.08	0.17	0.00	0.14	0.16	8.35	4.58	11.18	0.00	8.28	9.35
olfactory receptor 11L1-like	LOC100769787	100769787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DPH3 homolog	LOC100769797	100769797	0.39	0.48	0.33	0.21	0.18	0.17	4.56	6.41	3.73	2.32	3.10	3.74
proteasome subunit alpha type-3 pseudogene	LOC100769799	100769799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M-like	LOC100769800	100769800	1.93	2.01	1.47	1.28	1.92	1.31	146.59	128.10	121.72	147.18	152.14	143.00
olfactory receptor 6C76-like	LOC100769803	100769803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51J1	LOC100769804	100769804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sperm-associated antigen 11-like	LOC100769805	100769805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldo-keto reductase family 1 member C13-like	LOC100769807	100769807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100769808	100769808	0.00	0.14	0.00	0.00	0.16	0.00	0.00	0.92	0.00	0.00	1.03	0.00
eukaryotic initiation factor 4A-I-like	LOC100769812	100769812	5.97	5.28	4.86	4.05	5.30	4.19	107.10	102.48	89.43	71.85	109.71	67.30
testis-expressed sequence 30 protein-like	LOC100769814	100769814	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100769816	100769816	3.14	5.07	3.72	3.92	4.52	1.84	17.47	29.28	16.15	20.86	23.80	13.09
mitogen-activated protein kinase kinase kinase MLT	LOC100769818	100769818	7.63	7.65	8.68	9.62	10.67	10.02	1327.67	1320.39	1512.86	1709.41	1891.95	1798.30
GTPase ERas-like	LOC100769828	100769828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family G member 3-like	LOC100769836	100769836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100769837	100769837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin-7-like	LOC100769838	100769838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC100769842	100769842	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
corticotropin-releasing factor receptor 1	LOC100769844	100769844	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.03	0.00
carbonyl reductase [NADPH] 2-like	LOC100769845	100769845	1.66	1.93	0.37	0.42	0.27	0.41	0.76	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C18orf25	LOC100769854	100769854	7.59	7.31	8.94	10.20	9.88	10.50	466.36	457.52	572.60	626.98	634.45	648.66
taste receptor type 2 member 123-like	LOC100769855	100769855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.1	LOC100769863	100769863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cholesterol 24-hydroxylase	LOC100769865	100769865	0.28	0.33	0.32	0.33	0.31	0.26	40.26	42.09	45.96	47.52	44.50	42.06

60S ribosomal protein L34 pseudogene	LOC100769868	100769868	0.87	0.87	1.10	0.65	0.71	0.57	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4S2	LOC100769869	100769869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2B2-like	LOC100769871	100769871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RNF125 pseudogene	LOC100769873	100769873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trypsin-like	LOC100769881	100769881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2H1	LOC100769884	100769884	0.00	0.00	0.04	0.02	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.93
mortality factor 4-like protein 2	LOC100769886	100769886	0.07	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 pseudogene	LOC100769892	100769892	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	1.16	0.00	0.00
deoxyribonuclease-1-like 2	LOC100769895	100769895	0.53	0.43	0.40	0.52	0.56	0.64	6.84	6.41	4.97	10.43	13.45	10.28
C-C motif chemokine 6-like	LOC100769898	100769898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M-like	LOC100769901	100769901	0.47	0.53	0.45	0.36	0.56	0.29	63.04	62.22	55.89	56.79	62.10	37.39
olfactory receptor 2T27-like	LOC100769903	100769903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
emerin pseudogene	LOC100769906	100769906	0.17	0.20	0.22	0.15	0.18	0.12	5.32	5.49	7.45	3.48	7.24	9.35
protocadherin beta-5-like	LOC100769909	100769909	0.48	0.52	0.45	0.25	0.33	0.26	63.04	72.29	65.83	40.56	54.85	43.93
vomeronasal type-1 receptor 1-like	LOC100769910	100769910	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein interacting with ribonucleoprotein K-like	LOC100769912	100769912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kelch repeat and BTB domain-containing protein 7-like	LOC100769915	100769915	0.20	0.05	0.07	0.13	0.06	0.15	3.80	0.92	1.24	1.16	1.03	2.80
speckle-type POZ protein-like	LOC100769930	100769930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

poly(A) polymerase alpha pseudogene	LOC100769934	100769934	0.44	0.52	0.21	0.15	0.28	0.37	34.18	36.60	17.39	17.38	17.59	23.37
putative RNA-binding protein Luc7-like 2 pseudogene	LOC100769938	100769938	2.95	2.35	1.64	1.29	2.35	1.84	44.05	33.86	23.60	18.54	34.15	24.30
ubiquitin-conjugating enzyme E2 R1 pseudogene	LOC100769946	100769946	3.75	4.86	4.94	2.92	2.56	2.21	79.75	105.23	110.55	61.42	57.96	46.73
serine/threonine-protein phosphatase with EF-hands 2	LOC100769947	100769947	0.04	0.07	0.06	0.12	0.11	0.09	3.04	3.66	3.73	6.95	7.24	6.54
synaptophysin-like protein 2	LOC100769950	100769950	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100769951	100769951	0.00	0.10	0.00	0.19	0.22	0.10	0.76	0.92	0.00	1.16	1.03	0.93
RNA-binding protein with serine-rich domain 1 pseudogene	LOC100769952	100769952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
X-linked lymphocyte-regulated protein PM1-like	LOC100769955	100769955	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO-activating enzyme subunit 2 pseudogene	LOC100769957	100769957	1.33	1.19	1.48	1.55	1.07	1.60	58.48	55.82	65.83	70.69	48.64	76.64
cell division cycle 5-like protein pseudogene	LOC100769959	100769959	0.16	0.12	0.13	0.22	0.15	0.14	12.91	14.64	8.69	26.66	10.35	16.82
E3 ubiquitin-protein ligase DTX3L-like	LOC100769960	100769960	0.00	0.00	0.02	0.02	0.03	0.01	2.28	5.49	4.97	1.16	3.10	6.54
olfactory receptor 2D2	LOC100769966	100769966	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100769968	100769968	3.34	2.25	2.01	1.61	1.69	1.70	17.47	8.24	6.21	9.27	11.38	10.28
olfactory receptor 4F15-like	LOC100769971	100769971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 56	LOC100769974	100769974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 25	LOC100769977	100769977	14.15	15.78	12.37	16.03	13.53	12.76	765.62	818.04	674.45	852.97	738.98	698.20
ATP synthase subunit g, mitochondrial	LOC100769978	100769978	19.96	16.82	19.74	10.78	12.93	15.42	107.85	92.42	98.12	48.67	56.92	51.41
olfactory receptor 1078	LOC100769980	100769980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

mitochondrial intermembrane space import and assembly protein 40-like	LOC100769985	100769985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100769986	100769986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nose resistant to fluoxetine protein 6-like	LOC100769987	100769987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium/glucose cotransporter 1-like	LOC100769991	100769991	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
WW domain-containing adapter protein with coiled-coil-like	LOC100769993	100769993	0.18	0.13	0.07	0.09	0.02	0.04	11.39	11.90	3.73	6.95	6.21	2.80
olfactory receptor-like protein I9	LOC100769996	100769996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NXPE family member 1-like	LOC100769997	100769997	5.92	5.90	6.36	8.06	8.08	7.26	536.99	538.04	577.57	725.48	725.53	654.27
high mobility group protein B1 pseudogene	LOC100769998	100769998	0.06	0.12	0.14	0.00	0.03	0.02	0.76	0.92	1.24	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf47	LOC100770001	100770001	5.68	5.90	6.80	7.37	8.52	9.07	274.95	306.54	317.97	354.63	371.56	413.12
taste receptor type 1 member 3	LOC100770003	100770003	0.06	0.14	0.19	0.23	0.18	0.16	12.91	17.39	16.15	30.13	19.66	23.37
carbohydrate sulfotransferase 5	LOC100770004	100770004	0.07	0.06	0.08	0.11	0.00	0.00	3.04	3.66	2.48	3.48	0.00	0.00
carboxylesterase 1E-like	LOC100770009	100770009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-gamma-like	LOC100770011	100770011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9	LOC100770012	100770012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcriptional repressor p66-beta pseudogene	LOC100770014	100770014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-9-like	LOC100770021	100770021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100770023	100770023	0.44	0.50	0.23	0.27	0.29	0.35	5.32	5.49	3.73	2.32	3.10	3.74
acylcarnitine hydrolase-like	LOC100770025	100770025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 150-like	LOC100770026	100770026	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf107	LOC100770028	100770028	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	1.03	0.93
1-acyl-sn-glycerol-3-phosphate acyltransferase alpha pseudogene	LOC100770030	100770030	0.20	0.16	0.26	0.02	0.15	0.18	0.76	2.75	3.73	0.00	0.00	2.80
olfactory receptor 14A2-like	LOC100770032	100770032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat extensin-like protein 5	LOC100770039	100770039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix metalloproteinase-23-like	LOC100770040	100770040	2.42	2.87	2.84	2.63	2.78	2.19	1.52	0.92	0.00	1.16	2.07	0.00
sperm motility kinase X	LOC100770044	100770044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box only protein 17-like	LOC100770061	100770061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoglycerate mutase 1-like	LOC100770062	100770062	0.04	0.27	0.14	0.00	0.06	0.00	0.00	0.92	0.00	0.00	1.03	0.00
whey acidic protein-like	LOC100770064	100770064	0.21	0.25	0.08	0.16	0.00	0.00	27.34	25.62	12.42	22.02	11.38	9.35
GTP-binding nuclear protein Ran	LOC100770067	100770067	162.98	172.60	144.79	106.08	82.70	77.66	2079.62	2066.15	1960.01	1762.72	1369.29	1379.57
olfactory receptor 4C15-like	LOC100770068	100770068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Spindly pseudogene	LOC100770069	100770069	0.11	0.05	0.18	0.07	0.00	0.14	5.32	7.32	7.45	5.79	2.07	7.48
zinc finger protein 345-like	LOC100770072	100770072	7.93	7.46	7.27	8.89	8.93	8.55	1150.70	1096.21	1090.55	1289.88	1314.43	1277.69
nuclear RNA export factor 5-like	LOC100770077	100770077	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100770078	100770078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	1.87
olfactory receptor 1019-like	LOC100770080	100770080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100770091	100770091	12.79	14.10	12.83	14.29	16.11	15.82	549.15	592.94	553.97	598.00	692.41	646.79

olfactory receptor 51Q1-like	LOC100770097	100770097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 106	LOC100770098	100770098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
estradiol 17 beta-dehydrogenase 5	LOC100770100	100770100	0.25	0.19	0.00	0.10	0.21	0.19	10.63	7.32	0.00	3.48	10.35	5.61
60S ribosomal protein L23a pseudogene	LOC100770102	100770102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box protein L1	LOC100770103	100770103	0.34	0.27	0.18	0.11	0.40	0.34	28.86	23.79	14.91	9.27	34.15	31.78
sentrin-specific protease 2 pseudogene	LOC100770111	100770111	0.04	0.07	0.00	0.00	0.05	0.02	1.52	2.75	1.24	0.00	3.10	2.80
chromosome unknown open reading frame, human C9orf78	LOC100770113	100770113	49.72	49.92	52.88	53.64	53.17	55.60	2104.68	2158.56	2311.52	2242.51	2373.22	2401.17
lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial pseudogene	LOC100770114	100770114	1.26	0.83	0.57	1.35	1.76	1.73	22.03	20.13	18.63	30.13	33.12	34.58
60S ribosomal protein L13 pseudogene	LOC100770117	100770117	3.36	1.78	2.10	0.77	1.93	1.67	44.05	22.88	27.33	9.27	24.84	21.50
carbonyl reductase [NADPH] 2	LOC100770118	100770118	3.58	3.78	1.02	0.68	0.55	0.56	56.21	50.33	13.66	6.95	6.21	3.74
cell division cycle 7-related protein kinase pseudogene	LOC100770121	100770121	0.02	0.00	0.00	0.03	0.02	0.00	0.76	0.00	0.00	1.16	1.03	0.00
L-lactate dehydrogenase A chain-like	LOC100770123	100770123	0.03	0.00	0.06	0.05	0.14	0.09	0.76	0.00	3.73	1.16	3.10	2.80
protein SCO1 homolog, mitochondrial	LOC100770124	100770124	26.24	27.22	30.42	30.59	31.16	31.56	939.55	987.32	1124.09	1111.40	1116.75	1127.21
zinc finger protein ZFAT	LOC100770129	100770129	1.95	1.83	1.60	1.16	1.28	1.37	65.32	66.80	58.38	47.52	55.89	71.03
myosin-6	LOC100770130	100770130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10AG1-like	LOC100770137	100770137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin-17-like	LOC100770144	100770144	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 124-like	LOC100770146	100770146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 4S2	LOC100770159	100770159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2B2-like	LOC100770161	100770161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf119	LOC100770164	100770164	16.50	16.12	16.85	15.44	16.44	18.33	543.07	530.72	551.49	497.18	547.51	600.99
non-histone chromosomal protein HMG-17 pseudogene	LOC100770165	100770165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100770169	100770169	1.66	1.18	0.94	0.75	0.90	1.15	9.11	8.24	6.21	5.79	5.17	4.67
60S ribosomal protein L35 pseudogene	LOC100770170	100770170	18.95	23.60	31.35	18.40	27.91	17.21	89.63	119.87	151.53	86.92	136.62	80.38
olfactory receptor 2H2	LOC100770171	100770171	0.00	0.03	0.03	0.03	0.06	0.03	0.00	0.92	1.24	2.32	2.07	1.87
GPI mannosyltransferase 2	LOC100770177	100770177	4.99	4.40	4.11	4.63	5.63	5.43	335.72	278.17	280.71	316.39	337.41	343.96
C-C motif chemokine 3	LOC100770184	100770184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100770188	100770188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100770194	100770194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100770196	LOC100770196	100770196	0.10	0.09	0.00	0.02	0.00	0.04	9.11	7.32	0.00	1.16	5.17	5.61
2'-5'-oligoadenylate synthase 2-like	LOC100770197	100770197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-complex protein 1 subunit gamma-like	LOC100770199	100770199	0.23	0.27	0.13	0.16	0.31	0.18	14.43	14.64	12.42	9.27	14.49	10.28
plasminogen activator inhibitor 1 RNA-binding protein pseudogene	LOC100770211	100770211	16.54	16.96	12.84	8.75	6.86	6.46	1662.63	1612.29	1223.46	653.63	419.17	368.26
uncharacterized protein C9orf114 homolog	LOC100770213	100770213	82.70	86.62	91.25	75.03	55.48	59.52	1430.97	1440.26	1594.84	1331.60	1027.74	1087.02
transient receptor potential cation channel subfamily M member 3	LOC100770216	100770216	0.09	0.12	0.02	0.00	0.06	0.05	5.32	9.15	1.24	0.00	7.24	3.74
E3 ubiquitin-protein ligase makorin-1 pseudogene	LOC100770218	100770218	0.16	0.22	0.13	0.22	0.08	0.39	2.28	3.66	0.00	2.32	1.03	4.67

olfactory receptor 52K1-like	LOC100770219	100770219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hematological and neurological expressed 1 protein pseudogene	LOC100770220	100770220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative protein FAM10A4	LOC100770228	100770228	3.01	3.35	4.58	2.99	3.90	2.72	145.07	141.83	147.81	95.03	90.04	82.25
disintegrin and metalloproteinase domain-containing protein 1a-like	LOC100770233	100770233	0.08	0.09	0.09	0.08	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.00
synaptonemal complex protein 3-like	LOC100770238	100770238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
biorientation of chromosomes in cell division protein 1-like	LOC100770241	100770241	0.00	0.06	0.16	0.00	0.00	0.00	0.00	1.83	2.48	0.00	0.00	0.00
uncharacterized LOC100770246	LOC100770246	100770246	329.77	295.80	301.11	279.85	315.26	337.55	1187.92	1135.56	1121.60	992.04	1185.06	1099.17
tubulin alpha-1B chain pseudogene	LOC100770251	100770251	0.03	0.00	0.01	0.00	0.01	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12	LOC100770252	100770252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4F3/4F16/4F29	LOC100770256	100770256	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA repair protein RAD51 homolog 1 pseudogene	LOC100770257	100770257	0.07	0.08	0.11	0.05	0.00	0.00	1.52	1.83	2.48	1.16	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100770260	100770260	0.26	0.29	0.32	0.09	0.19	0.18	6.08	6.41	8.69	2.32	4.14	5.61
olfactory receptor 1078-like	LOC100770265	100770265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100770268	100770268	0.00	0.00	0.00	0.00	0.05	0.00	0.76	0.00	0.00	0.00	1.03	0.00
vomeronasal type-2 receptor 116-like	LOC100770271	100770271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
baculoviral IAP repeat-containing protein 1a	LOC100770272	100770272	0.23	0.23	0.17	0.25	0.26	0.17	30.38	34.77	26.08	38.24	39.33	30.84
olfactory receptor 1468	LOC100770282	100770282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like protein 6-interacting protein 1 pseudogene	LOC100770283	100770283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

E3 ubiquitin-protein ligase ZNRF1	LOC100770289	100770289	10.82	10.51	13.70	12.56	12.25	11.60	594.72	595.69	765.13	702.31	674.81	656.14
amine sulfotransferase-like	LOC100770290	100770290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ATP-binding cassette sub-family B member 5-like	LOC100770292	100770292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carboxylesterase 1E-like	LOC100770294	100770294	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain 1 pseudogene	LOC100770296	100770296	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 10P1	LOC100770297	100770297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 9-like	LOC100770298	100770298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA excision repair protein ERCC-6-like	LOC100770299	100770299	3.51	3.31	3.51	3.53	3.53	3.30	578.77	518.82	557.70	560.92	549.58	515.00
60S ribosomal protein L23a pseudogene	LOC100770301	100770301	26.77	26.56	20.97	15.79	21.46	15.01	113.93	121.70	85.70	71.85	100.39	52.34
probable global transcription activator SNF2L2	LOC100770307	100770307	11.48	11.05	8.67	11.13	10.75	11.36	727.64	713.73	547.76	691.88	705.86	747.74
hsp90 co-chaperone Cdc37 pseudogene	LOC100770308	100770308	0.54	0.41	0.47	0.22	0.34	0.40	12.15	10.07	12.42	4.64	9.31	10.28
pyrethroid hydrolase Ces2e-like	LOC100770313	100770313	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.00	1.24	0.00	0.00	0.93
olfactory receptor 150	LOC100770314	100770314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
potassium voltage-gated channel subfamily D member 2-like	LOC100770319	100770319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14C36	LOC100770321	100770321	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoserine aminotransferase-like	LOC100770323	100770323	121.12	123.47	128.91	123.46	130.85	130.64	16.71	7.32	4.97	13.91	12.42	10.28
14-3-3 protein gamma	LOC100770325	100770325	27.08	27.65	33.34	30.67	28.02	31.93	1994.55	2027.71	2537.58	2379.26	2224.19	2560.06
dickkopf-like protein 1 pseudogene	LOC100770328	100770328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cystatin-C-like	LOC100770333	100770333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor E4F1-like	LOC100770340	100770340	6.54	5.85	6.70	4.36	2.85	4.50	235.46	228.76	240.96	166.88	109.71	154.22
stAR-related lipid transfer protein 6-like	LOC100770351	100770351	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S10 pseudogene	LOC100770353	100770353	0.00	0.00	0.00	0.00	0.00	0.00	6.84	8.24	3.73	1.16	4.14	1.87
tubulin alpha-1B chain-like	LOC100770354	100770354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
olfactory receptor 140-like	LOC100770357	100770357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K5-like	LOC100770358	100770358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box protein I2	LOC100770362	100770362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
elongation factor 1-alpha 1	LOC100770366	100770366	605.54	591.22	598.93	619.09	671.16	672.13	19918.92	19324.59	19766.57	20459.57	21940.67	22545.17
olfactory receptor 1468-like	LOC100770369	100770369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable N-acetyltransferase CML1	LOC100770373	100770373	0.47	0.52	0.37	0.24	0.59	0.25	1.52	1.83	0.00	1.16	7.24	0.93
chromosome unknown open reading frame, human C1orf127	LOC100770375	100770375	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 51I1	LOC100770385	100770385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 12	LOC100770386	100770386	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldo-keto reductase family 1 member C21-like	LOC100770388	100770388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C16-like	LOC100770394	100770394	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 33	LOC100770395	100770395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36 pseudogene	LOC100770396	100770396	0.00	0.06	0.17	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.93

dynein light chain 1, cytoplasmic	LOC100770402	100770402	1.01	1.30	0.83	1.02	0.90	0.18	6.08	6.41	3.73	4.64	4.14	0.00
zinc finger protein 431-like	LOC100770404	100770404	1.60	1.35	1.36	1.61	1.71	1.61	135.96	117.12	113.03	137.91	144.90	136.46
carbonyl reductase [NADPH] 2	LOC100770405	100770405	1.60	1.83	0.57	0.47	0.35	0.50	0.00	0.00	0.00	0.00	0.00	0.00
prothymosin alpha-like	LOC100770406	100770406	0.41	0.00	0.10	0.20	0.00	0.00	2.28	0.00	2.48	1.16	0.00	0.93
60S ribosomal protein L18a pseudogene	LOC100770408	100770408	3.59	4.55	3.30	2.99	3.87	1.78	38.74	46.67	33.54	28.97	38.29	17.76
collagen alpha-4(VI) chain	LOC100770413	100770413	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf52	LOC100770415	100770415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14A2	LOC100770416	100770416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 184C pseudogene	LOC100770417	100770417	0.08	0.06	0.05	0.00	0.03	0.03	2.28	0.92	1.24	0.00	0.00	0.93
mediator of RNA polymerase II transcription subunit 20-like	LOC100770419	100770419	0.84	1.34	1.48	1.20	1.05	0.72	4.56	8.24	8.69	6.95	9.31	4.67
signal transducer CD24 pseudogene	LOC100770426	100770426	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC100770429	100770429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 110-like	LOC100770432	100770432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucose 6-dehydrogenase pseudogene	LOC100770435	100770435	13.62	14.32	13.20	15.96	18.24	15.70	478.51	501.44	464.54	557.44	639.62	548.65
chromosome unknown open reading frame, human C1orf234	LOC100770440	100770440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
casein kinase I isoform alpha pseudogene	LOC100770446	100770446	0.04	0.00	0.00	0.06	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
olfactory receptor 11-like	LOC100770448	100770448	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100770456	100770456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

serine/arginine repetitive matrix protein 2-like	LOC100770458	100770458	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
C-C motif chemokine 4	LOC100770471	100770471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 11L1	LOC100770472	100770472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C15orf40	LOC100770476	100770476	27.03	24.05	20.92	21.72	20.85	20.65	530.16	490.46	412.37	405.62	393.29	387.89
C1GALT1-specific chaperone 1	LOC100770484	100770484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras GTPase-activating protein-binding protein 1 pseudogene	LOC100770487	100770487	0.02	0.00	0.04	0.04	0.00	0.00	0.76	0.00	1.24	1.16	1.03	0.00
tumor necrosis factor receptor superfamily member 10B-like	LOC100770489	100770489	15.51	14.76	14.08	15.66	15.68	14.97	518.01	508.76	460.81	514.56	534.05	504.72
thioredoxin domain-containing protein 3-like	LOC100770490	100770490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L8-like	LOC100770496	100770496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2A3-like	LOC100770501	100770501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bystin	LOC100770504	100770504	2.34	2.64	2.53	2.02	1.84	2.22	65.32	65.88	70.80	61.42	60.03	71.03
60S ribosomal protein L15-like	LOC100770505	100770505	0.31	0.12	0.11	0.05	0.09	0.08	9.11	5.49	7.45	3.48	3.10	3.74
eukaryotic initiation factor 4A-I-like	LOC100770514	100770514	1.58	1.26	1.07	0.47	1.08	0.89	47.09	34.77	27.33	16.22	32.08	30.84
nucleoporin SEH1	LOC100770516	100770516	0.78	0.58	0.34	0.20	0.29	0.09	13.67	11.90	6.21	3.48	1.03	1.87
60S ribosomal protein L19 pseudogene	LOC100770519	100770519	0.04	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
poly(rC)-binding protein 2 pseudogene	LOC100770523	100770523	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00
cancer/testis antigen 55-like	LOC100770524	100770524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spindle and kinetochore-associated protein 2	LOC100770526	100770526	0.13	0.08	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.93

splicing factor 45 pseudogene	LOC100770529	100770529	0.57	0.61	0.23	0.39	0.42	0.39	18.23	22.88	6.21	10.43	12.42	10.28
ubiquitin-60S ribosomal protein L40 pseudogene	LOC100770530	100770530	0.13	0.38	0.25	0.48	0.77	0.05	0.00	0.92	0.00	2.32	3.10	0.00
40S ribosomal protein S20-like	LOC100770531	100770531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coxsackievirus and adenovirus receptor homolog	LOC100770536	100770536	0.00	0.09	0.08	0.05	0.07	0.03	0.76	2.75	1.24	2.32	2.07	1.87
olfactory receptor 2A2	LOC100770537	100770537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-structural maintenance of chromosomes element 4 homolog A pseudogene	LOC100770538	100770538	0.14	0.06	0.08	0.00	0.19	0.08	6.84	2.75	4.97	0.00	8.28	3.74
olfactory receptor 4F15	LOC100770541	100770541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetraspanin-7 pseudogene	LOC100770545	100770545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM89A-like	LOC100770549	100770549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100770554	100770554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclic AMP-dependent transcription factor ATF-4 pseudogene	LOC100770559	100770559	0.60	0.98	0.66	0.33	0.45	0.13	20.51	32.94	23.60	16.22	12.42	4.67
olfactory receptor 1468	LOC100770564	100770564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100770566	100770566	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 2, facilitated glucose transporter member 3	LOC100770570	100770570	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
amine sulfotransferase	LOC100770571	100770571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NXPE family member 3-like	LOC100770572	100770572	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 24	LOC100770574	100770574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sentrin-specific protease 2 pseudogene	LOC100770575	100770575	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

small proline-rich protein 2G-like	LOC100770576	100770576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100770581	100770581	1.72	2.07	2.19	2.50	2.59	2.31	198.24	230.59	248.42	289.73	294.97	261.71
olfactory receptor 6C2-like	LOC100770582	100770582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin heavy chain pseudogene	LOC100770584	100770584	4.89	3.07	3.42	2.21	4.86	2.60	44.81	31.11	38.50	24.34	47.61	21.50
AKT-interacting protein pseudogene	LOC100770588	100770588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor B polypeptide 2 pseudogene	LOC100770591	100770591	0.49	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 9-1-like	LOC100770592	100770592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 5 pseudogene	LOC100770593	100770593	0.09	0.04	0.11	0.03	0.09	0.08	3.80	0.92	2.48	1.16	4.14	2.80
60S ribosomal protein L7 pseudogene	LOC100770595	100770595	1.38	1.46	0.93	0.56	1.68	1.06	24.31	29.28	17.39	19.70	27.94	20.56
putative olfactory receptor 10D4	LOC100770596	100770596	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 14A2-like	LOC100770603	100770603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear factor NF-kappa-B p105 subunit	LOC100770607	100770607	109.25	99.86	114.15	118.03	96.40	99.95	3315.39	3083.66	3517.59	3443.15	2853.46	3025.53
hyphally-regulated protein-like	LOC100770616	100770616	5.26	5.23	5.05	4.46	3.85	5.22	300.78	286.41	275.74	213.24	184.23	214.04
MLV-related proviral Env polyprotein-like	LOC100770617	100770617	0.10	0.11	0.19	0.08	0.17	0.20	0.00	0.00	0.00	0.00	0.00	0.00
nuclear receptor-binding factor 2-like	LOC100770622	100770622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis-associated protein 7 homolog	LOC100770623	100770623	5.58	4.78	4.97	5.14	6.51	6.36	151.91	133.59	134.15	137.91	182.16	172.91
GRB2-associated-binding protein 2 pseudogene	LOC100770629	100770629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iron/zinc purple acid phosphatase-like protein	LOC100770630	100770630	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100770631	LOC100770631	100770631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 pseudogene	LOC100770632	100770632	5.03	5.42	5.75	3.56	3.91	2.81	33.42	21.05	24.84	17.38	12.42	18.69
chromosome unknown open reading frame, human C19orf54	LOC100770635	100770635	2.24	1.97	2.68	2.23	1.48	1.21	75.19	73.20	115.51	98.51	69.34	72.90
3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1-like	LOC100770636	100770636	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C6-like	LOC100770637	100770637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K3-like	LOC100770638	100770638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S16-like	LOC100770641	100770641	1.87	1.47	1.09	0.45	0.13	0.24	21.27	13.73	9.94	8.11	3.10	4.67
homeobox protein Hox-C4a-like	LOC100770642	100770642	45.47	80.29	59.75	64.55	54.22	46.75	123.80	147.32	146.57	133.28	154.21	139.27
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	LOC100770644	100770644	0.20	0.08	0.11	0.00	0.00	0.00	3.04	0.92	1.24	0.00	0.00	0.00
T-complex protein 11 X-linked protein 2-like	LOC100770645	100770645	0.37	0.42	0.00	0.08	0.00	0.00	19.75	22.88	0.00	4.64	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC100770647	100770647	1.62	1.51	0.63	0.41	0.88	0.97	9.87	9.15	3.73	2.32	5.17	5.61
phosphatidylinositol transfer protein alpha isoform pseudogene	LOC100770649	100770649	0.53	0.73	0.47	0.35	0.62	0.24	12.15	16.47	11.18	6.95	13.45	5.61
mannan-binding lectin serine protease 2-like	LOC100770654	100770654	2.37	2.16	1.89	2.24	3.09	2.18	168.62	148.24	120.48	156.45	200.79	158.89
motile sperm domain-containing protein 3 pseudogene	LOC100770657	100770657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf24	LOC100770658	100770658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
prolyl-tRNA synthetase associated domain-containing protein 1 pseudogene	LOC100770662	100770662	14.24	13.91	14.95	15.68	15.00	15.72	0.76	0.00	0.00	0.00	0.00	0.00
sperm flagellar protein 1-like	LOC100770663	100770663	0.09	0.03	0.00	0.17	0.16	0.07	3.04	4.58	2.48	4.64	7.24	5.61
olfactory receptor 51L1-like	LOC100770665	100770665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ubiquitin carboxyl-terminal hydrolase 17-like protein E	LOC100770666	100770666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 4 isoform 1, mitochondrial	LOC100770670	100770670	499.77	489.99	498.08	504.75	481.56	535.76	7833.13	7799.75	7797.82	7621.06	7248.01	7984.88
vomeronasal type-1 receptor 94-like	LOC100770672	100770672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4P4	LOC100770674	100770674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L6	LOC100770677	100770677	218.67	226.96	228.35	204.73	189.16	171.09	629.66	580.13	624.77	467.04	459.53	456.12
60S ribosomal protein L37a-like	LOC100770680	100770680	0.48	0.00	0.61	0.00	0.00	1.14	1.52	0.00	1.24	0.00	0.00	2.80
Ig heavy chain V-I region V35-like	LOC100770681	100770681	0.00	0.00	0.00	0.00	0.00	0.00						
heterogeneous nuclear ribonucleoproteins C1/C2 pseudogene	LOC100770689	100770689	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 14A2-like	LOC100770696	100770696	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein DEK-like	LOC100770697	100770697	0.78	0.69	0.50	0.58	0.48	0.51	22.03	15.56	12.42	11.59	16.56	16.82
vomeronasal type-2 receptor 116-like	LOC100770699	100770699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100770701	100770701	0.00	0.16	0.45	0.00	0.00	0.00	2.28	7.32	7.45	3.48	2.07	3.74
RNA binding motif protein, X-linked-like-1	LOC100770709	100770709	92.84	95.35	106.36	108.03	97.01	101.65	4319.50	4442.49	5073.92	5138.65	4599.48	4893.93
taste receptor type 2 member 140-like	LOC100770712	100770712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin heavy chain pseudogene	LOC100770717	100770717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100770722	100770722	0.00	0.05	0.13	0.00	0.00	0.10	0.00	0.92	1.24	0.00	0.00	0.93
microtubule-actin cross-linking factor 1	LOC100770726	100770726	30.58	30.13	29.38	33.61	37.49	37.01	12019.71	11866.15	11696.73	13214.00	14728.89	14574.30
olfactory receptor 4C46-like	LOC100770727	100770727	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

fez family zinc finger protein 2-like	LOC100770728	100770728	0.32	0.47	0.32	0.10	0.27	0.49	4.56	5.49	3.73	1.16	3.10	5.61
olfactory receptor 2W3-like	LOC100770729	100770729	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
serine protease 44-like	LOC100770736	100770736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23-like	LOC100770739	100770739	7.07	7.07	2.16	2.65	3.26	2.46	101.78	85.10	39.75	37.09	32.08	34.58
chromosome unknown open reading frame, human C2orf42	LOC100770743	100770743	5.00	5.46	5.89	5.41	6.73	6.33	399.52	435.56	471.99	427.64	518.53	496.31
trichohyalin	LOC100770745	100770745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinases regulatory subunit 1 pseudogene	LOC100770752	100770752	0.14	0.25	0.11	0.00	0.00	0.09	2.28	10.98	4.97	1.16	2.07	2.80
chromosome unknown open reading frame, human C12orf65	LOC100770753	100770753	8.13	7.91	9.92	11.24	12.27	11.16	367.62	369.67	459.57	519.20	539.23	512.20
WAP four-disulfide core domain protein 18-like	LOC100770754	100770754	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100770762	100770762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC100770768	100770768	2.74	2.64	2.40	2.06	1.76	1.66	14.43	15.56	11.18	9.27	11.38	7.48
OCIA domain-containing protein 1 pseudogene	LOC100770770	100770770	0.00	0.00	0.00	0.00	0.00	0.00	3.80	4.58	3.73	0.00	2.07	1.87
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial pseudogene	LOC100770782	100770782	0.90	0.54	0.85	1.62	1.16	1.29	10.63	6.41	9.94	19.70	14.49	14.95
alpha-enolase pseudogene	LOC100770786	100770786	0.04	0.12	0.09	0.05	0.04	0.06	0.76	3.66	2.48	1.16	1.03	1.87
small ubiquitin-related modifier 2 pseudogene	LOC100770788	100770788	0.37	0.66	0.76	0.73	0.64	0.23	8.35	14.64	19.87	9.27	9.31	5.61
2'-5'-oligoadenylate synthase 1A-like	LOC100770794	100770794	1.85	1.92	2.35	2.04	2.22	2.18	157.22	164.71	201.22	170.36	184.23	183.20
major allergen I polypeptide chain 1-like	LOC100770795	100770795	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	1.03	0.00
period circadian protein homolog 3-like	LOC100770800	100770800	3.04	3.04	2.94	3.91	3.83	4.03	3.80	1.83	0.00	1.16	2.07	0.93

proto-oncogene FRAT1-like	LOC100770802	100770802	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf52	LOC100770805	100770805	18.94	18.15	17.69	17.75	17.76	18.88	679.79	637.78	638.43	629.29	629.27	703.81
prohibitin pseudogene	LOC100770807	100770807	0.19	0.36	0.19	0.06	0.05	0.00	3.80	7.32	3.73	1.16	1.03	0.00
60S ribosomal protein L23a pseudogene	LOC100770808	100770808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC100770811	100770811	1.52	1.24	0.98	0.89	0.58	0.67	15.95	15.56	11.18	9.27	6.21	7.48
amiloride-sensitive amine oxidase [copper-containing]-like	LOC100770812	100770812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A5	LOC100770820	100770820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C5orf42	LOC100770827	100770827	6.40	5.89	7.68	9.22	9.07	8.46	2128.23	1984.71	2558.70	3097.79	3009.74	2830.18
olfactory receptor 10-like	LOC100770828	100770828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AP-3 complex subunit sigma-1-like	LOC100770829	100770829	1.09	0.89	0.74	0.71	1.07	1.29	32.66	29.28	12.42	13.91	21.73	19.63
olfactory receptor 50-like	LOC100770832	100770832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA 3'-terminal phosphate cyclase-like protein pseudogene	LOC100770834	100770834	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
aminopeptidase Q	LOC100770836	100770836	0.03	0.08	0.03	0.05	0.08	0.07	3.04	6.41	2.48	3.48	6.21	8.41
zinc finger X-linked protein ZXDB-like	LOC100770838	100770838	4.89	4.60	5.22	5.65	5.66	5.66	452.69	422.75	501.80	585.25	629.27	633.71
vomeronasal type-2 receptor 116-like	LOC100770839	100770839	0.01	0.02	0.02	0.04	0.01	0.03	2.28	4.58	3.73	4.64	6.21	6.54
transmembrane protein 198-like	LOC100770841	100770841	6.06	5.06	5.26	4.44	4.53	5.02	294.70	261.70	285.68	248.01	231.84	261.71
alpha-protein kinase 2-like	LOC100770843	100770843	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.03	0.93
polyadenylate-binding protein 4-like	LOC100770847	100770847	0.09	0.16	0.05	0.00	0.10	0.00	2.28	3.66	1.24	0.00	2.07	0.00

developmental pluripotency-associated protein 5A	LOC100770850	100770850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100770851	LOC100770851	100770851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100770854	100770854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC100770859	100770859	1.13	1.28	0.95	0.82	1.90	0.18	6.08	6.41	4.97	3.48	9.31	0.00
polycomb group RING finger protein 6	LOC100770860	100770860	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7G2	LOC100770862	100770862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sentrin-specific protease 2 pseudogene	LOC100770863	100770863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small proline-rich protein 2E-like	LOC100770864	100770864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C68	LOC100770870	100770870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2AP1-like	LOC100770872	100770872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf71	LOC100770873	100770873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family A member 3-like	LOC100770874	100770874	0.03	0.05	0.04	0.01	0.00	0.00	4.56	9.15	4.97	3.48	0.00	1.87
histone-lysine N-methyltransferase SUV39H2-like	LOC100770875	100770875	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	2.80
olfactory receptor 52N2	LOC100770882	100770882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tankyrase-1-like	LOC100770883	100770883	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
mitochondrial amidoxime reducing component 2 pseudogene	LOC100770885	100770885	0.21	0.12	0.11	0.00	0.14	0.09	4.56	2.75	2.48	0.00	3.10	1.87
olfactory receptor 8D1-like	LOC100770886	100770886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf135	LOC100770890	100770890	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 14A2-like	LOC100770892	100770892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prothymosin alpha-like	LOC100770893	100770893	0.29	0.09	0.24	0.00	0.00	0.00	4.56	2.75	2.48	1.16	0.00	0.93
selenoprotein K pseudogene	LOC100770902	100770902	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf13	LOC100770910	100770910	11.77	9.56	15.31	10.46	11.27	12.26	277.23	248.89	372.63	302.48	288.76	308.44
high mobility group protein B1 pseudogene	LOC100770915	100770915	2.82	3.66	3.08	3.10	3.37	2.33	22.79	30.20	26.08	23.18	24.84	19.63
40S ribosomal protein S28 pseudogene	LOC100770920	100770920	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 beta-hydroxysteroid dehydrogenase type 3	LOC100770922	100770922	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100770923	100770923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K3-like	LOC100770924	100770924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase-like 3 pseudogene	LOC100770925	100770925	0.00	0.06	0.00	0.00	0.04	0.00	0.00	0.92	0.00	0.00	1.03	0.00
zinc finger protein 14-like	LOC100770926	100770926	3.52	3.44	3.59	3.97	3.53	3.85	226.34	233.33	238.48	267.71	231.84	268.25
prothymosin alpha-like	LOC100770935	100770935	182.13	243.16	229.11	211.58	197.61	167.34	2457.11	3189.81	2999.64	2715.35	2532.61	2213.30
transgelin-2 pseudogene	LOC100770941	100770941	0.62	0.26	0.10	0.20	0.00	0.08	5.32	1.83	0.00	1.16	0.00	0.00
sentrin-specific protease 2 pseudogene	LOC100770945	100770945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin-like protein KIF1B	LOC100770947	100770947	21.36	23.12	22.46	23.33	27.74	26.45	3086.01	3327.06	3267.93	3362.03	3971.24	3763.91
trafficking protein particle complex subunit 9	LOC100770948	100770948	15.91	15.16	23.74	18.99	17.49	17.72	706.37	727.45	1142.72	908.59	881.81	896.35
olfactory receptor 51I2	LOC100770951	100770951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-kinase anchor protein 1, mitochondrial pseudogene	LOC100770954	100770954	0.39	0.30	0.23	0.18	0.10	0.23	24.31	16.47	12.42	10.43	4.14	14.95

vomeronasal type-1 receptor 94-like	LOC100770956	100770956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C11	LOC100770959	100770959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf38	LOC100770974	100770974	10.48	10.98	11.55	12.52	13.44	12.63	1140.07	1202.35	1269.41	1358.25	1459.33	1398.27
Ig heavy chain V-I region V35-like	LOC100770976	100770976	0.00	0.00	0.00	0.00	0.00	0.00						
mitotic checkpoint protein BUB3 pseudogene	LOC100770978	100770978	0.31	0.26	0.10	0.00	0.34	0.06	7.60	6.41	2.48	0.00	8.28	0.93
serine/arginine-rich splicing factor 3 pseudogene	LOC100770980	100770980	0.18	0.27	0.22	0.00	0.37	0.23	0.76	1.83	1.24	0.00	3.10	1.87
carcinoembryonic antigen-related cell adhesion molecule 5-like	LOC100770986	100770986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100770987	100770987	0.93	0.49	0.16	0.00	0.20	0.18	13.67	7.32	1.24	0.00	2.07	5.61
apolipoprotein L6-like	LOC100770989	100770989	0.00	0.05	0.07	0.00	0.00	0.05	0.00	0.92	1.24	0.00	0.00	1.87
uncharacterized protein C1orf131 homolog	LOC100770990	100770990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase	LOC100770995	100770995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100770996	100770996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 140-like	LOC100770999	100770999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein F-like	LOC100771001	100771001	7.06	7.85	7.88	11.00	7.66	7.74	171.66	195.82	203.70	289.73	192.51	201.89
nuclear receptor 2C2-associated protein pseudogene	LOC100771003	100771003	0.22	0.98	0.90	0.52	0.30	0.00	0.76	0.00	0.00	1.16	0.00	0.00
olfactory receptor 4C46-like	LOC100771015	100771015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein with KRAB and SCAN domains 3-like	LOC100771017	100771017	0.05	0.12	0.13	0.06	0.14	0.13	3.04	7.32	8.69	8.11	5.17	5.61
carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase protein	LOC100771018	100771018	1.38	1.22	0.99	0.88	0.77	0.73	208.11	183.92	146.57	133.28	114.88	107.49

polyadenylate-binding protein 2	LOC100771019	100771019	130.61	123.99	126.41	137.22	131.89	123.81	2511.04	2404.71	2417.10	2503.27	2451.88	2311.44
serine protease 44-like	LOC100771024	100771024	0.00	0.00	0.00	0.04	0.00	0.03	0.76	0.00	0.00	1.16	3.10	1.87
T-cell receptor beta chain V region CTL-F3	LOC100771026	100771026	0.00	0.00	0.00	0.00	0.00	0.00						
PWWP domain-containing protein MUM1L1	LOC100771029	100771029	19.77	21.09	26.67	31.74	30.46	27.38	1820.62	1942.62	2441.94	2923.95	2730.29	2528.28
ATP-binding cassette sub-family A member 3-like	LOC100771037	100771037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b-c1 complex subunit 7 pseudogene	LOC100771040	100771040	3.27	3.56	4.68	3.76	2.21	1.83	24.31	27.45	27.33	22.02	16.56	9.35
WAP four-disulfide core domain protein 18-like	LOC100771042	100771042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3 domain-binding protein 5-like	LOC100771043	100771043	12.46	11.86	11.93	7.16	5.97	5.49	500.54	457.52	473.24	341.88	288.76	281.34
lysine-specific demethylase 2B pseudogene	LOC100771044	100771044	0.03	0.06	0.00	0.00	0.00	0.02	1.52	2.75	0.00	0.00	0.00	0.93
vomeronasal type-1 receptor 4-like	LOC100771048	100771048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
vomeronasal type-1 receptor 4-like	LOC100771050	100771050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100771052	100771052	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,8-dihydro-8-oxoguanine triphosphatase pseudogene	LOC100771054	100771054	1.28	1.54	1.28	1.86	1.59	1.23	0.76	2.75	0.00	1.16	1.03	3.74
oligosaccharyltransferase complex subunit OSTC pseudogene	LOC100771059	100771059	0.79	0.46	0.63	0.48	0.32	0.62	6.84	4.58	4.97	4.64	3.10	4.67
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100771060	100771060	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.03	0.00
cytochrome P450 2D10-like	LOC100771066	100771066	14.11	14.10	16.47	15.25	11.13	13.25	858.28	872.94	1065.71	975.81	782.45	868.31
sperm motility kinase W-like	LOC100771067	100771067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29 pseudogene	LOC100771071	100771071	6.06	7.13	4.62	2.75	4.18	3.75	11.39	13.73	8.69	5.79	7.24	6.54

5-hydroxyisourate hydrolase	LOC100771073	100771073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase KRas pseudogene	LOC100771078	100771078	1.56	0.99	0.67	0.50	0.98	0.94	2.28	2.75	0.00	0.00	3.10	1.87
60S ribosomal protein L21 pseudogene	LOC100771079	100771079	3.49	2.65	1.65	1.98	1.84	2.06	13.67	4.58	9.94	8.11	11.38	10.28
	LOC100771080	100771080	39.05	34.03	38.56	45.86	51.21	45.12	1799.35	1680.92	1840.77	2186.88	2388.75	2114.22
transmembrane protein 221-like	LOC100771083	100771083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
claudin-22	LOC100771085	100771085	1.99	1.58	1.25	1.62	1.28	1.21	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10X1	LOC100771089	100771089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-fold modifier-conjugating enzyme 1 pseudogene	LOC100771096	100771096	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fas apoptotic inhibitory molecule 1-like	LOC100771101	100771101	0.31	0.29	0.46	0.11	0.14	0.00	1.52	1.83	4.97	1.16	1.03	0.93
putative olfactory receptor 2B3	LOC100771102	100771102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 2	LOC100771104	100771104	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100771109	100771109	89.08	83.20	74.93	57.42	34.93	38.85	1168.17	1030.33	940.26	731.28	435.73	497.24
ribosomal protein S6 kinase beta-1 pseudogene	LOC100771110	100771110	0.15	0.08	0.03	0.00	0.03	0.00	5.32	2.75	1.24	0.00	1.03	0.00
non-histone chromosomal protein HMG-17 pseudogene	LOC100771111	100771111	0.21	0.13	0.00	0.00	0.00	0.13	4.56	2.75	2.48	2.32	2.07	3.74
cold shock domain-containing protein E1 pseudogene	LOC100771112	100771112	0.94	0.98	1.36	1.09	1.79	1.20	36.46	41.18	59.62	49.83	78.66	63.56
ATP synthase F(0) complex subunit C1, mitochondrial	LOC100771114	100771114	2.20	2.54	1.28	1.16	1.58	1.51	21.27	21.05	8.69	11.59	12.42	13.09
60S ribosomal protein L7	LOC100771117	100771117	7.67	6.52	6.05	6.22	7.08	5.97	44.81	37.52	34.78	32.45	43.47	33.65
galectin-1 pseudogene	LOC100771118	100771118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

nucleophosmin pseudogene	LOC100771119	100771119	2.38	2.04	1.17	1.08	1.18	1.45	46.33	35.69	17.39	32.45	20.70	34.58
vomeronasal type-2 receptor 116-like	LOC100771121	100771121	0.73	0.64	0.41	0.30	0.38	0.55	24.31	24.71	19.87	9.27	13.45	22.43
histone-binding protein RBBP4 pseudogene	LOC100771124	100771124	10.13	9.92	9.43	8.12	10.78	10.68	382.05	381.57	355.24	293.21	378.80	372.93
E3 ubiquitin-protein ligase RNF216 pseudogene	LOC100771126	100771126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class I histocompatibility antigen, B-52 alpha chain-like	LOC100771128	100771128	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100771129	100771129	0.13	0.05	0.49	0.13	0.36	0.48	3.04	3.66	9.94	8.11	15.52	15.89
N-acetyltransferase 8-like	LOC100771131	100771131	0.87	0.89	1.03	0.82	1.02	0.82	17.47	20.13	33.54	22.02	28.98	23.37
dual specificity protein phosphatase CDC14B pseudogene	LOC100771133	100771133	0.04	0.07	0.03	0.00	0.08	0.02	1.52	2.75	1.24	0.00	3.10	0.93
uncharacterized threonine-rich GPI-anchored glycoprotein PJ4664.02-like	LOC100771138	100771138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NXPE family member 3-like	LOC100771142	100771142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
palmitoyltransferase ZDHHC3	LOC100771150	100771150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C6-like	LOC100771152	100771152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein ZPR1 pseudogene	LOC100771157	100771157	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 34-like	LOC100771161	100771161	12.91	12.59	11.53	14.05	14.77	14.70	1878.34	1816.34	1726.50	2029.27	2146.56	2128.24
olfactory receptor 52E8	LOC100771163	100771163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTP-binding nuclear protein Ran	LOC100771164	100771164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C20orf26	LOC100771165	100771165	0.02	0.03	0.00	0.02	0.03	0.04	5.32	6.41	0.00	2.32	4.14	3.74
olfactory receptor 150-like	LOC100771168	100771168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

chromosome unknown open reading frame, human C16orf58	LOC100771170	100771170	53.37	53.07	54.83	54.91	52.94	57.39	2896.88	2866.80	2891.58	2845.15	2686.82	2917.10
40S ribosomal protein S15a pseudogene	LOC100771174	100771174	8.39	10.16	5.86	6.38	5.84	5.86	50.89	59.48	34.78	35.93	34.15	30.84
Ig lambda chain V-VI region AR-like	LOC100771176	100771176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 2 subunit 3 pseudogene	LOC100771182	100771182	1.63	1.80	1.46	1.07	1.57	1.42	9.87	10.98	7.45	5.79	11.38	2.80
cystatin-S-like	LOC100771186	100771186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon lambda-3-like	LOC100771198	100771198	0.04	0.07	0.03	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	1.87
general transcription factor II-I repeat domain-containing protein 2	LOC100771200	100771200	2.16	2.30	2.43	2.66	1.73	1.87	194.44	203.14	219.85	235.26	160.42	171.98
succinyl-CoA:3-ketoacid coenzyme A transferase 2A, mitochondrial	LOC100771204	100771204	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100771207	100771207	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosome subunit biogenesis protein NIP7 homolog pseudogene	LOC100771208	100771208	0.52	1.13	0.33	0.53	0.39	0.40	9.11	21.96	7.45	9.27	8.28	7.48
olfactory receptor 8K3-like	LOC100771209	100771209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein slowmo homolog 2 pseudogene	LOC100771210	100771210	0.63	0.61	0.21	0.00	0.45	0.16	3.80	3.66	1.24	0.00	3.10	1.87
protein Red-like	LOC100771211	100771211	0.79	0.52	0.70	0.70	0.61	0.72	25.06	14.64	21.12	25.50	16.56	22.43
peroxisomal membrane protein 11C	LOC100771214	100771214	13.53	13.14	8.78	6.68	7.35	7.38	138.24	115.29	89.43	67.22	86.94	90.66
chromosome unknown open reading frame, human C12orf45	LOC100771219	100771219	38.76	38.21	33.46	34.00	34.73	35.12	4458.50	4437.91	3864.13	3888.18	3938.12	4034.97
coiled-coil domain-containing protein 71-like	LOC100771224	100771224	0.19	0.14	0.15	0.10	0.15	0.07	7.60	7.32	6.21	3.48	7.24	2.80
taste receptor type 2 member 114-like	LOC100771227	100771227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-splicing factor 38A pseudogene	LOC100771228	100771228	0.16	0.13	0.18	0.22	0.25	0.24	3.04	2.75	3.73	4.64	5.17	3.74

carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100771234	100771234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I2-like	LOC100771237	100771237	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100771240	100771240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100771242	LOC100771242	100771242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C46-like	LOC100771247	100771247	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin/ISG15 ligase TRIM25-like	LOC100771249	100771249	0.00	0.02	0.00	0.00	0.00	0.02	0.00	1.83	0.00	0.00	0.00	0.93
torsin-1B-like	LOC100771251	100771251	13.38	13.71	15.93	17.39	18.36	17.70	796.76	810.72	906.72	958.43	959.43	917.85
nascent polypeptide-associated complex subunit alpha pseudogene	LOC100771258	100771258	0.00	0.07	0.00	0.00	0.23	0.07	0.00	0.92	0.00	0.00	3.10	0.93
Ig heavy chain V-III region VH26-like	LOC100771262	100771262	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L28 pseudogene	LOC100771263	100771263	16.63	16.03	17.49	11.69	13.42	10.68	121.53	118.04	125.45	81.12	96.25	74.77
germ cell-less protein-like 1	LOC100771264	100771264	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin, mitochondrial	LOC100771270	100771270	123.72	125.96	141.13	118.43	85.39	103.02	1952.02	1971.90	2107.82	1842.68	1398.27	1643.15
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100771273	100771273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone sialoprotein 2 pseudogene	LOC100771277	100771277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36 pseudogene	LOC100771285	100771285	12.98	12.01	9.44	3.20	3.33	2.73	370.66	329.41	264.56	91.55	100.39	85.05
taste receptor type 2 member 140-like	LOC100771286	100771286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S17 pseudogene	LOC100771289	100771289	12.81	13.32	9.11	9.26	11.03	8.90	93.42	124.44	79.49	73.01	80.73	63.56
dehydrogenase/reductase SDR family member 4	LOC100771290	100771290	0.06	0.07	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00

proteolipid protein 2-like	LOC100771296	100771296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C6-like	LOC100771301	100771301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCCH domain-containing protein 14 pseudogene	LOC100771314	100771314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 20	LOC100771319	100771319	44.88	43.39	47.41	47.50	46.82	51.24	2139.62	2084.45	2292.89	2250.62	2176.58	2390.89
WAP four-disulfide core domain protein 18-like	LOC100771328	100771328	0.07	0.05	0.04	0.10	0.03	0.08	2.28	4.58	1.24	3.48	2.07	3.74
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100771329	100771329	0.46	0.30	0.28	0.00	0.00	0.32	4.56	3.66	2.48	0.00	0.00	2.80
olfactory receptor 143-like	LOC100771334	100771334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100771335	100771335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100771337	100771337	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-dependent kinases regulatory subunit 2 pseudogene	LOC100771339	100771339	5.23	5.91	10.42	7.46	9.36	5.82	10.63	11.90	19.87	12.75	17.59	11.22
uncharacterized LOC100771342	LOC100771342	100771342	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-I region HK102-like	LOC100771353	100771353	0.14	0.00	0.00	0.00	0.00	0.00						
60S acidic ribosomal protein P1	LOC100771356	100771356	4.09	3.82	4.23	2.46	1.24	1.25	123.80	114.38	139.11	78.81	40.36	45.80
alcohol dehydrogenase class-3 pseudogene	LOC100771358	100771358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	3.74
ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100771360	100771360	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
dnaJ homolog subfamily B member 6-like	LOC100771379	100771379	3.99	4.70	3.93	3.44	2.73	3.25	25.06	32.03	38.50	25.50	26.91	29.91
amiloride-sensitive amine oxidase [copper-containing]	LOC100771382	100771382	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC100771383	LOC100771383	100771383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 2A12	LOC100771389	100771389	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
iron-sulfur cluster assembly 1 homolog, mitochondrial	LOC100771390	100771390	54.54	61.36	65.76	61.71	70.25	61.96	650.17	801.57	802.39	752.14	874.56	739.32
arylacetamide deacetylase-like 2	LOC100771391	100771391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC100771393	100771393	0.33	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L22 pseudogene	LOC100771397	100771397	739.45	735.52	688.08	705.51	757.91	753.71	5660.09	5639.35	5208.07	5121.27	5665.52	5555.68
ras-related GTP-binding protein C pseudogene	LOC100771399	100771399	3.42	4.05	4.10	3.07	4.26	3.49	37.22	43.01	55.89	33.61	42.43	35.52
olfactory receptor 50	LOC100771402	100771402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUN14 domain-containing protein 2	LOC100771404	100771404	0.00	0.00	0.00	0.19	0.00	0.08	1.52	0.00	0.00	3.48	1.03	0.93
60S ribosomal protein L37a-like	LOC100771405	100771405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7A17-like	LOC100771408	100771408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100771409	100771409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetyltransferase 8-like	LOC100771416	100771416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
integrator complex subunit 7-like	LOC100771418	100771418	0.11	0.11	0.12	0.09	0.08	0.08	15.95	13.73	13.66	11.59	8.28	6.54
C-type lectin domain family 4 member A-like	LOC100771426	100771426	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C7orf43	LOC100771428	100771428	9.56	8.52	10.76	9.99	7.07	7.50	635.73	550.85	693.08	630.45	463.67	510.33
60 kDa heat shock protein, mitochondrial pseudogene	LOC100771429	100771429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2-like	LOC100771430	100771430	0.00	0.00	0.02	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
olfactory receptor 7G2-like	LOC100771432	100771432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

protocadherin beta-2-like	LOC100771436	100771436	0.09	0.04	0.04	0.01	0.00	0.00	3.04	0.92	1.24	1.16	0.00	0.00
L-lactate dehydrogenase A chain pseudogene	LOC100771439	100771439	3.02	2.94	1.92	1.65	2.35	1.40	78.99	85.10	58.38	44.04	62.10	39.26
olfactory receptor 6C6	LOC100771440	100771440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B5	LOC100771442	100771442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase inhibitor 2	LOC100771445	100771445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52E5	LOC100771452	100771452	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptonemal complex protein 3-like	LOC100771458	100771458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15 pseudogene	LOC100771460	100771460	3.17	2.44	1.96	0.86	1.00	0.71	70.64	58.56	48.44	20.86	28.98	20.56
cytochrome b-c1 complex subunit 6, mitochondrial	LOC100771461	100771461	166.80	173.89	112.86	121.91	130.70	122.61	2067.47	2246.41	1434.61	1481.10	1642.52	1481.45
Ig lambda chain V-VI region WLT-like	LOC100771466	100771466	0.00	0.00	0.00	0.00	0.00	0.00						
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100771471	100771471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L39-like	LOC100771474	100771474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin-9-like	LOC100771477	100771477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family member 1A5-like	LOC100771487	100771487	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
interferon lambda-2-like	LOC100771490	100771490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium-dependent glucose transporter 1C-like	LOC100771492	100771492	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
bone morphogenetic protein 8A-like	LOC100771494	100771494	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-14 pseudogene	LOC100771497	100771497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

L-lactate dehydrogenase A chain pseudogene	LOC100771498	100771498	0.03	0.00	0.00	0.05	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
olfactory receptor 8J3-like	LOC100771499	100771499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AMME syndrome candidate gene 1 protein-like	LOC100771508	100771508	0.23	0.20	0.09	0.27	0.23	0.14	5.32	2.75	1.24	3.48	3.10	2.80
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100771509	100771509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 41 member 2	LOC100771510	100771510	13.10	13.00	15.57	16.12	19.17	18.23	791.44	794.25	921.63	1004.78	1147.80	1126.28
taste receptor type 2 member 104-like	LOC100771519	100771519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L45, mitochondrial pseudogene	LOC100771520	100771520	0.16	0.05	0.00	0.00	0.06	0.00	3.04	0.92	0.00	0.00	1.03	0.00
olfactory receptor 150-like	LOC100771523	100771523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100771526	100771526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I2	LOC100771529	100771529	0.00	0.04	0.00	0.00	0.07	0.02	0.00	0.92	1.24	0.00	0.00	0.00
Ig lambda chain V-I region BL2-like	LOC100771534	100771534	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L39 pseudogene	LOC100771536	100771536	209.49	191.21	171.67	136.52	187.10	155.99	88.87	102.48	72.04	60.26	87.97	85.05
olfactory receptor 4C16-like	LOC100771539	100771539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC100771543	100771543	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.03	2.80
mitogen-activated protein kinase kinase kinase MLK4	LOC100771548	100771548	0.03	0.04	0.01	0.01	0.00	0.00	3.80	4.58	1.24	1.16	0.00	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC100771552	100771552	0.22	0.04	0.08	0.11	0.12	0.09	3.04	0.92	1.24	1.16	2.07	1.87
PRAME family member 12 pseudogene	LOC100771554	100771554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nudC domain-containing protein 2 pseudogene	LOC100771556	100771556	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00

OX-2 membrane glycoprotein-like	LOC100771559	100771559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostatic steroid-binding protein C1-like	LOC100771561	100771561	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	2.07	0.93
actin-related protein 2 pseudogene	LOC100771563	100771563	0.10	0.17	0.29	0.06	0.05	0.08	1.52	4.58	6.21	0.00	1.03	1.87
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100771565	100771565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KH homology domain-containing protein 1-like	LOC100771570	100771570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100771577	LOC100771577	100771577	46.97	44.61	49.38	51.56	50.50	54.23	1307.93	1237.13	1365.05	1384.91	1398.27	1498.28
40S ribosomal protein S21 pseudogene	LOC100771581	100771581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock cognate 71 kDa protein pseudogene	LOC100771584	100771584	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
cytochrome b-c1 complex subunit 6, mitochondrial pseudogene	LOC100771588	100771588	3.93	4.58	2.95	2.24	2.69	2.94	3.80	6.41	3.73	0.00	7.24	0.93
olfactory receptor 4C6-like	LOC100771591	100771591	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S10 pseudogene	LOC100771602	100771602	2.91	2.64	2.41	1.29	1.36	1.95	31.90	33.86	23.60	17.38	12.42	21.50
T-cell receptor beta chain V region CTL-F3-like	LOC100771603	100771603	0.00	0.00	0.00	0.00	0.00	0.00						
SAP domain-containing ribonucleoprotein pseudogene	LOC100771605	100771605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial chaperone BCS1	LOC100771607	100771607	15.08	13.89	16.44	18.58	16.69	18.14	467.12	469.41	545.28	560.92	531.98	550.52
chromosome unknown open reading frame, human C4orf33	LOC100771610	100771610	8.83	8.88	7.38	7.53	8.81	7.74	571.93	579.22	480.69	501.81	575.45	499.11
protein SET-like	LOC100771616	100771616	0.11	0.03	0.05	0.06	0.00	0.03	1.52	0.00	1.24	1.16	0.00	0.93
olfactory receptor 5K1	LOC100771617	100771617	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein RoBo-1-like	LOC100771621	100771621	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L21-like	LOC100771622	100771622	8.65	9.80	6.07	4.25	6.24	4.32	71.40	83.27	48.44	34.77	51.75	35.52
pyruvate kinase PKM pseudogene	LOC100771625	100771625	0.77	0.73	0.46	0.35	0.59	0.32	32.66	31.11	19.87	15.07	24.84	13.09
olfactory receptor 143	LOC100771627	100771627	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100771628	100771628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 30A-like	LOC100771630	100771630	5.72	5.75	6.18	6.64	7.31	7.68	394.20	394.38	434.73	492.54	522.67	539.30
transient receptor potential cation channel subfamily M member 6	LOC100771631	100771631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b-c1 complex subunit 7 pseudogene	LOC100771632	100771632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S13-like	LOC100771633	100771633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1 pseudogene	LOC100771636	100771636	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100771639	100771639	0.04	0.08	0.00	0.13	0.10	0.04	1.52	3.66	0.00	4.64	3.10	1.87
	LOC100771643	100771643	79.71	75.32	71.09	67.30	60.50	65.88	1462.87	1386.28	1319.10	1249.32	1149.87	1213.20
dynactin-associated protein-like	LOC100771645	100771645	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial-like	LOC100771646	100771646	0.08	0.15	0.12	0.06	0.09	0.09	0.00	1.83	0.00	0.00	0.00	0.00
cytochrome P450 11B1, mitochondrial-like	LOC100771648	100771648	0.76	0.60	0.52	0.32	0.19	0.28	34.18	27.45	22.36	11.59	8.28	14.95
C-type lectin domain family 2 member E-like	LOC100771650	100771650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 1a-like	LOC100771654	100771654	0.05	0.06	0.06	0.06	0.02	0.09	0.00	0.00	0.00	1.16	0.00	2.80
membrane-spanning 4-domains subfamily A member 15	LOC100771655	100771655	0.55	0.78	0.35	0.57	0.35	0.58	14.43	16.47	9.94	9.27	10.35	12.15
chromosome unknown open reading frame, human C8orf59	LOC100771656	100771656	40.34	43.11	31.36	34.16	38.00	35.91	533.20	581.05	424.79	426.48	496.79	465.47

uncharacterized LOC100771658	LOC100771658	100771658	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
ATPase family AAA domain-containing protein 2-like	LOC100771660	100771660	60.48	65.13	43.02	50.21	51.88	49.33	1262.35	1359.74	891.82	1029.12	1058.79	1015.05
60S ribosomal protein L32 pseudogene	LOC100771663	100771663	1.17	1.19	1.12	0.56	1.21	0.94	9.11	6.41	4.97	4.64	7.24	5.61
fructose-bisphosphate aldolase A pseudogene	LOC100771672	100771672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase IMAP family member 3-like	LOC100771673	100771673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100771674	100771674	0.29	0.12	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
GON-4-like protein	LOC100771675	100771675	8.59	8.91	9.35	9.55	10.43	10.24	1444.64	1529.02	1583.66	1650.30	1797.77	1723.53
olfactory receptor 2A12-like	LOC100771680	100771680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
non-histone chromosomal protein HMG-14-like	LOC100771681	100771681	10.02	10.34	13.51	7.87	4.44	4.74	212.67	226.01	253.39	236.42	219.42	226.19
arylacetamide deacetylase-like 2	LOC100771682	100771682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription initiation factor TFIID subunit 13 pseudogene	LOC100771684	100771684	0.13	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S29	LOC100771687	100771687	4.66	5.66	3.58	0.85	2.84	4.62	183.81	170.20	121.72	50.99	45.54	48.60
thymosin beta-4-like protein 3	LOC100771688	100771688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1G1-like	LOC100771694	100771694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endothelin-converting enzyme 2 pseudogene	LOC100771698	100771698	0.03	0.06	0.10	0.05	0.04	0.00	0.00	0.92	1.24	1.16	1.03	0.00
olfactory receptor 7A17-like	LOC100771701	100771701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
general transcription factor IIH subunit 2	LOC100771702	100771702	19.63	20.79	23.70	23.21	26.61	25.58	833.21	933.33	1045.84	1008.26	1133.31	1048.70
probable N-acetyltransferase CML2	LOC100771708	100771708	0.09	0.00	0.09	0.05	0.05	0.07	6.08	2.75	4.97	3.48	4.14	6.54

gap junction gamma-1 protein-like	LOC100771710	100771710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100771713	100771713	2.85	3.47	2.46	1.98	2.44	1.80	28.10	36.60	26.08	18.54	26.91	18.69
vomeronasal type-1 receptor 4-like	LOC100771714	100771714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 4 member A-like	LOC100771718	100771718	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trafficking protein particle complex subunit 3-like protein	LOC100771719	100771719	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A-like	LOC100771721	100771721	0.03	0.00	0.00	0.00	0.04	0.07	0.76	0.00	0.00	0.00	1.03	1.87
chromosome unknown open reading frame, human C9orf96	LOC100771726	100771726	0.80	0.83	0.62	0.81	0.85	0.78	531.68	511.50	546.52	594.53	545.44	553.32
olfactory receptor 8B3-like	LOC100771730	100771730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C6	LOC100771731	100771731	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18-like	LOC100771732	100771732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fumarate hydratase, mitochondrial-like	LOC100771733	100771733	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mortality factor 4-like protein 2	LOC100771735	100771735	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
histone H3.3C	LOC100771736	100771736	0.58	0.56	0.34	0.32	0.55	0.37	22.03	24.71	16.15	15.07	18.63	13.09
urinary protein 2-like	LOC100771738	100771738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat and SOCS box protein 6	LOC100771739	100771739	9.45	9.87	10.97	9.78	8.16	8.91	187.61	165.62	197.49	124.00	109.71	96.27
olfactory receptor 56A3	LOC100771742	100771742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A3-like	LOC100771748	100771748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tctex1 domain-containing protein 2 pseudogene	LOC100771749	100771749	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	1.87

ribosomal RNA-processing protein 7 homolog A pseudogene	LOC100771755	100771755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytosolic phospholipase A2 beta	LOC100771756	100771756	3.70	3.38	3.76	3.50	2.76	2.80	426.10	391.63	437.21	425.32	317.74	333.68
T-cell ecto-ADP-ribosyltransferase 1 pseudogene	LOC100771759	100771759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin-9-like	LOC100771766	100771766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23 pseudogene	LOC100771771	100771771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family member 1A5-like	LOC100771780	100771780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC100771781	100771781	0.02	0.02	0.00	0.08	0.04	0.01	2.28	3.66	2.48	3.48	1.03	1.87
interferon lambda-2-like	LOC100771782	100771782	0.00	0.02	0.03	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sodium-dependent glucose transporter 1C	LOC100771784	100771784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2F2	LOC100771787	100771787	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100771789	100771789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family member 6A1-like	LOC100771790	100771790	0.29	0.21	0.18	0.22	0.35	0.38	84.31	58.56	52.17	68.38	99.36	95.34
olfactory receptor 8K3-like	LOC100771791	100771791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U6 snRNA-associated Sm-like protein LSm8 pseudogene	LOC100771795	100771795	0.27	0.33	0.15	0.14	0.25	0.23	3.04	2.75	2.48	1.16	2.07	3.74
60S ribosomal protein L6-like	LOC100771797	100771797	0.58	0.25	0.27	0.10	0.45	0.21	20.51	8.24	9.94	3.48	15.52	7.48
apolipoprotein O pseudogene	LOC100771807	100771807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 107-like	LOC100771810	100771810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit alpha type-2 pseudogene	LOC100771811	100771811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

pyroglutamylated RFamide peptide receptor	LOC100771812	100771812	0.03	0.00	0.00	0.00	0.04	0.00	0.76	0.00	0.00	1.16	3.10	0.93
melanoma-associated antigen 10	LOC100771813	100771813	2.70	2.38	0.84	1.07	1.07	1.50	127.60	118.95	40.99	50.99	51.75	72.90
olfactory receptor 1537-like	LOC100771814	100771814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S8 pseudogene	LOC100771816	100771816	0.00	0.18	0.10	0.00	0.00	0.07	0.00	1.83	1.24	0.00	0.00	0.93
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100771817	100771817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
homeobox protein MSX-3	LOC100771818	100771818	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I2-like	LOC100771820	100771820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin iota chain-like	LOC100771825	100771825	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 4C46-like	LOC100771830	100771830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S27-like	LOC100771832	100771832	0.06	0.00	0.00	0.00	0.23	0.07	0.76	0.92	0.00	1.16	4.14	1.87
chromosome unknown open reading frame, human C12orf5	LOC100771835	100771835	20.18	20.81	20.72	22.16	22.14	20.99	2191.27	2263.79	2255.63	2392.01	2376.33	2281.53
39S ribosomal protein L32, mitochondrial-like	LOC100771854	100771854	5.18	5.91	6.28	5.61	7.33	6.09	3.04	3.66	3.73	5.79	5.17	0.93
mammaglobin-B-like	LOC100771855	100771855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2.32	2.07	1.87
core histone macro-H2A.1	LOC100771856	100771856	43.92	42.95	37.14	39.51	36.19	36.47	2167.72	2155.82	1879.28	1946.99	1820.54	1829.15
alpha-defensin 9-like	LOC100771859	100771859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase ERas-like	LOC100771862	100771862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein MCM10 homolog pseudogene	LOC100771864	100771864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1 chain-like	LOC100771871	100771871	0.03	0.00	0.03	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00

G/T mismatch-specific thymine DNA glycosylase pseudogene	LOC100771878	100771878	0.02	0.06	0.05	0.00	0.00	0.03	3.04	2.75	1.24	2.32	5.17	0.93
T-complex protein 1 subunit gamma pseudogene	LOC100771882	100771882	0.02	0.05	0.03	0.06	0.00	0.05	0.76	1.83	1.24	2.32	0.00	1.87
olfactory receptor 140-like	LOC100771884	100771884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 20-like	LOC100771888	100771888	5.70	4.13	5.04	4.54	4.92	5.26	29.62	22.88	24.84	23.18	21.73	32.71
calcium-binding mitochondrial carrier protein Aralar2-like	LOC100771898	100771898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L51, mitochondrial pseudogene	LOC100771903	100771903	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
natural cytotoxicity triggering receptor 2-like	LOC100771904	100771904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-type lectin domain family 2 member F-like	LOC100771905	100771905	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase ZNRF1	LOC100771908	100771908	1.60	1.34	1.62	0.68	0.68	0.31	43.29	42.09	39.75	26.66	19.66	12.15
olfactory receptor 5K1	LOC100771909	100771909	0.04	0.03	0.11	0.00	0.06	0.03	1.52	0.92	4.97	0.00	2.07	0.93
mitochondrial import inner membrane translocase subunit Tim23 pseudogene	LOC100771913	100771913	0.60	0.46	0.58	0.50	0.97	0.76	6.84	5.49	4.97	6.95	10.35	8.41
leukocyte receptor cluster member 8 homolog pseudogene	LOC100771914	100771914	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.92	0.00	0.00	1.03	0.00
POZ-, AT hook-, and zinc finger-containing protein 1 pseudogene	LOC100771917	100771917	0.73	0.26	0.77	0.79	0.46	0.49	12.91	3.66	14.91	15.07	8.28	7.48
signal-regulatory protein beta-1-like	LOC100771918	100771918	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 143-like	LOC100771919	100771919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100771920	100771920	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit J-like	LOC100771928	100771928	0.07	0.16	0.33	0.00	0.28	0.00	0.76	1.83	3.73	0.00	3.10	0.00
40S ribosomal protein S26-like	LOC100771933	100771933	0.22	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00

A-kinase anchor protein 8-like pseudogene	LOC100771934	100771934	0.19	0.18	0.09	0.16	0.18	0.07	5.32	5.49	2.48	5.79	4.14	1.87
T-cell ecto-ADP-ribosyltransferase 2-like	LOC100771938	100771938	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.92	0.00	0.00	1.03	0.00
zinc finger protein 260-like	LOC100771943	100771943	0.87	0.92	0.97	0.80	1.25	1.14	94.18	103.40	114.27	100.83	156.28	128.05
synaptotagmin-10	LOC100771945	100771945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 1a-like	LOC100771947	100771947	0.13	0.12	0.12	0.16	0.19	0.22	8.35	7.32	7.45	10.43	15.52	17.76
motile sperm domain-containing protein 1 pseudogene	LOC100771959	100771959	0.06	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	1.03	0.93
GTPase IMAP family member 5-like	LOC100771965	100771965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100771971	100771971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
profilin-1 pseudogene	LOC100771972	100771972	79.44	80.29	71.97	54.60	34.90	47.33	569.65	582.88	490.62	344.20	217.35	290.68
ferritin heavy chain pseudogene	LOC100771976	100771976	0.38	0.28	0.46	0.19	0.30	0.19	2.28	0.92	1.24	2.32	1.03	1.87
60S ribosomal protein L28 pseudogene	LOC100771977	100771977	0.22	0.07	0.65	0.00	0.08	0.21	0.76	0.00	3.73	0.00	0.00	0.93
protein canopy homolog 2 pseudogene	LOC100771978	100771978	1.68	2.03	2.28	1.45	1.55	0.79	15.95	28.37	23.60	13.91	14.49	9.35
interferon-inducible GTPase 1	LOC100771979	100771979	0.06	0.05	0.02	0.00	0.03	0.05	2.28	0.92	1.24	0.00	1.03	0.93
protein SFI1 homolog	LOC100771980	100771980	13.24	11.13	8.19	7.64	8.01	7.69	744.35	717.39	491.87	478.63	409.85	430.88
olfactory receptor 1L4-like	LOC100771984	100771984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC100771989	100771989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7A17-like	LOC100771991	100771991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YTH domain-containing family protein 3-like	LOC100771994	100771994	0.02	0.00	0.00	0.00	0.02	0.02	0.76	0.00	0.00	1.16	1.03	0.93

chromosome unknown open reading frame, human C8orf88	LOC100771996	100771996	0.05	0.00	0.09	0.00	0.08	0.00	3.04	0.00	2.48	0.00	2.07	1.87
glycylpeptide N-tetradecanoyltransferase 1 pseudogene	LOC100771998	100771998	1.24	1.26	0.60	0.43	0.81	0.38	43.29	42.09	22.36	13.91	26.91	11.22
ubiquitin-conjugating enzyme E2 variant 2-like	LOC100772004	100772004	15.49	14.61	13.05	15.42	16.14	13.42	232.42	234.25	203.70	258.44	263.92	187.87
ATPase family AAA domain-containing protein 3	LOC100772005	100772005	72.13	69.82	53.21	45.91	33.72	37.47	5158.79	5027.19	3923.75	3378.25	2503.63	2786.25
C-type lectin domain family 4 member A-like	LOC100772006	100772006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin beta-4-like	LOC100772016	100772016	1.24	0.53	0.36	0.62	0.58	0.79	31.14	16.47	11.18	15.07	21.73	15.89
olfactory receptor 145-like	LOC100772019	100772019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7A17-like	LOC100772022	100772022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mortality factor 4-like protein 2	LOC100772024	100772024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L10-like	LOC100772026	100772026	2.52	1.90	2.09	1.46	1.52	2.22	28.86	13.73	26.08	15.07	10.35	22.43
urinary protein 2-like	LOC100772027	100772027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf50	LOC100772028	100772028	0.74	0.79	0.79	0.45	0.38	0.53	69.88	64.97	60.86	41.72	37.26	35.52
olfactory receptor 52E4	LOC100772031	100772031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin M	LOC100772033	100772033	0.00	0.00	0.05	0.00	0.00	0.00	0.76	1.83	2.48	0.00	3.10	0.00
tubulin polyglutamylase TTLL13	LOC100772034	100772034	0.44	0.52	0.55	0.60	0.43	0.47	67.60	70.46	83.22	96.19	76.59	89.73
olfactory receptor 10A6	LOC100772035	100772035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mediator of RNA polymerase II transcription subunit 28 pseudogene	LOC100772036	100772036	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
murinoglobulin-1-like	LOC100772039	100772039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

spermatogenesis-associated protein 31D1-like	LOC100772041	100772041	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	2.07	0.00
chromosome unknown open reading frame, human C11orf1	LOC100772044	100772044	4.90	4.27	2.86	3.43	4.14	3.57	297.74	260.78	175.13	203.97	250.47	222.45
sperm motility kinase X-like	LOC100772045	100772045	0.13	0.10	0.29	0.21	0.45	0.22	3.04	0.92	4.97	4.64	9.31	3.74
vomeronasal type-1 receptor 4-like	LOC100772047	100772047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100772050	LOC100772050	100772050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cystatin-12	LOC100772051	100772051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
single-stranded DNA-binding protein, mitochondrial pseudogene	LOC100772053	100772053	1.86	0.87	0.11	0.91	1.13	0.61	18.99	8.24	0.00	5.79	9.31	3.74
chromosome unknown open reading frame, human C16orf45	LOC100772063	100772063	93.76	89.83	153.96	157.60	147.12	159.41	5739.08	5600.01	9345.46	9591.22	9106.84	9815.90
triosephosphate isomerase-like	LOC100772068	100772068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2A8-like	LOC100772071	100772071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
myomegalin-like	LOC100772072	100772072	7.16	7.27	9.78	10.39	11.03	10.87	1708.96	1742.22	2363.69	2438.37	2531.58	2527.35
olfactory receptor 4C15-like	LOC100772073	100772073	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family member 6A1-like	LOC100772074	100772074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K3-like	LOC100772075	100772075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 420-like	LOC100772077	100772077	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
forkhead box protein H1 pseudogene	LOC100772086	100772086	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 7	LOC100772091	100772091	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 345-like	LOC100772092	100772092	2.96	2.90	2.75	3.42	3.38	3.28	323.56	319.35	309.28	381.28	367.42	363.59

lysosome-associated membrane glycoprotein 1	LOC100772093	100772093	2.96	2.86	2.57	1.46	2.43	1.31	88.11	81.44	75.77	37.09	70.38	32.71
olfactory receptor 1537-like	LOC100772095	100772095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
arylacetamide deacetylase-like 2	LOC100772096	100772096	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 5-like	LOC100772098	100772098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51I2	LOC100772101	100772101	0.02	0.00	0.04	0.07	0.13	0.09	0.76	0.00	1.24	2.32	3.10	1.87
olfactory receptor 52H1	LOC100772104	100772104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin omega chain-like	LOC100772107	100772107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C46-like	LOC100772112	100772112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L19 pseudogene	LOC100772117	100772117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
modulator of retrovirus infection pseudogene	LOC100772128	100772128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell surface glycoprotein CD200 receptor 5-like	LOC100772132	100772132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rho GTPase-activating protein 7-like	LOC100772133	100772133	1.21	1.13	1.69	1.79	2.36	1.98	67.60	56.73	83.22	93.87	112.81	103.75
interferon-induced protein with tetratricopeptide repeats 2-like	LOC100772141	100772141	0.05	0.08	0.01	0.02	0.02	0.02	0.00	0.92	0.00	0.00	0.00	0.00
RNA-binding protein PNO1 pseudogene	LOC100772149	100772149	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.03	0.00
dehydrogenase/reductase SDR family member 2, mitochondrial-like	LOC100772153	100772153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
butyrophilin subfamily 2 member A2	LOC100772154	100772154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
kelch repeat and BTB domain-containing protein 7	LOC100772156	100772156	8.08	9.15	8.37	8.31	8.43	8.61	597.76	701.83	654.58	727.80	763.82	746.80
olfactory receptor 4C6-like	LOC100772162	100772162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ubiquitin-conjugating enzyme E2 C pseudogene	LOC100772163	100772163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 5-like	LOC100772164	100772164	20.44	22.36	18.60	21.35	22.25	20.49	567.38	637.78	531.61	623.50	649.97	576.69
chromosome unknown open reading frame, human C6orf132	LOC100772166	100772166	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
long-chain-fatty-acid--CoA ligase 4 pseudogene	LOC100772169	100772169	1.42	2.07	2.62	1.39	1.63	2.01	26.58	39.35	49.68	22.02	30.01	39.26
putative ankyrin repeat domain-containing protein 19	LOC100772170	100772170	0.24	0.06	0.04	0.25	0.26	0.43	12.91	10.98	12.42	22.02	22.77	29.91
60S ribosomal protein L32 pseudogene	LOC100772172	100772172	191.98	219.50	228.98	228.35	225.14	197.14	776.25	918.69	952.68	901.64	954.26	679.50
T-cell receptor beta chain	LOC100772174	100772174	0.00	0.00	0.00	0.00	0.00	0.00						
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100772175	100772175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
tumor rejection antigen P815A-like	LOC100772178	100772178	0.05	0.11	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
NHP2-like protein 1 pseudogene	LOC100772188	100772188	0.25	0.00	0.00	0.00	0.36	0.00	1.52	0.00	0.00	0.00	2.07	0.00
tyrosine-protein kinase Fer pseudogene	LOC100772190	100772190	6.35	5.51	4.60	5.34	5.81	5.38	281.79	267.19	228.54	273.51	278.41	271.99
cytochrome P450 2S1	LOC100772193	100772193	0.13	0.21	0.18	0.00	0.00	0.00	7.60	10.07	11.18	0.00	0.00	3.74
ATP-citrate synthase pseudogene	LOC100772194	100772194	45.50	46.73	54.32	57.01	51.18	52.09	2196.59	2255.56	2617.08	2754.75	2458.09	2495.57
olfactory receptor 143-like	LOC100772195	100772195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100772196	100772196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif-containing protein 6 pseudogene	LOC100772197	100772197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100772198	LOC100772198	100772198	0.15	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	1.03	0.00
calcium-binding protein 39 pseudogene	LOC100772212	100772212	0.08	0.05	0.08	0.04	0.00	0.00	2.28	0.92	2.48	1.16	0.00	0.00

tudor and KH domain-containing protein pseudogene	LOC100772213	100772213	0.04	0.06	0.08	0.10	0.16	0.42	2.28	1.83	3.73	3.48	7.24	7.48
T-cell ecto-ADP-ribosyltransferase 2-like	LOC100772218	100772218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRELI domain-containing protein 1, mitochondrial-like	LOC100772219	100772219	4.85	4.50	3.66	3.58	2.07	2.06	84.31	79.61	64.59	59.10	35.19	35.52
protein Jade-3-like	LOC100772221	100772221	0.76	0.72	0.67	0.65	0.52	0.69	0.00	0.92	1.24	0.00	0.00	0.00
glutathione S-transferase C-terminal domain-containing protein	LOC100772223	100772223	24.65	25.33	28.12	33.83	34.84	33.12	439.77	447.45	490.62	573.67	610.64	583.23
olfactory receptor 5V1	LOC100772228	100772228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2B17-like	LOC100772229	100772229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNT1-inducible-signaling pathway protein 1-like	LOC100772232	100772232	0.17	0.07	0.00	0.00	0.04	0.00	4.56	2.75	0.00	0.00	1.03	0.00
TAF5-like RNA polymerase II p300/CBP-associated factor-associated factor 65 kDa subunit 5L pseudogene	LOC100772233	100772233	0.12	0.05	0.05	0.02	0.00	0.02	6.08	1.83	1.24	2.32	0.00	1.87
ubiquitin-conjugating enzyme E2 S pseudogene	LOC100772236	100772236	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S7 pseudogene	LOC100772239	100772239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12-like	LOC100772253	100772253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C6orf120	LOC100772262	100772262	17.97	18.85	19.89	18.56	20.95	18.85	1086.14	1127.32	1158.87	1100.97	1196.44	1081.41
olfactory receptor 1L6-like	LOC100772267	100772267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100772268	100772268	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C4orf29	LOC100772269	100772269	2.16	2.33	2.43	2.74	2.81	2.59	160.26	168.37	181.34	195.86	203.89	193.48
histone H2A.Z pseudogene	LOC100772270	100772270	31.84	26.76	23.57	20.47	21.61	26.20	39.50	28.37	21.12	15.07	15.52	12.15
calcitonin gene-related peptide 1	LOC100772276	100772276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

beta-galactoside alpha-2,6-sialyltransferase 1 pseudogene	LOC100772277	100772277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 18-like	LOC100772278	100772278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
splicing factor U2AF 35 kDa subunit pseudogene	LOC100772280	100772280	0.05	0.00	0.16	0.00	0.00	0.00	1.52	0.92	3.73	1.16	1.03	0.93
cytochrome c oxidase subunit 6A1, mitochondrial pseudogene	LOC100772281	100772281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC100772282	100772282	0.17	0.30	0.10	0.00	0.08	0.00	4.56	6.41	4.97	3.48	2.07	0.00
vomeronasal type-1 receptor 2-like	LOC100772286	100772286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO-conjugating enzyme UBC9 pseudogene	LOC100772291	100772291	0.06	0.00	0.00	0.00	0.00	0.00	11.39	0.92	7.45	6.95	3.10	3.74
NEDD4-binding protein 2 pseudogene	LOC100772296	100772296	0.01	0.02	0.00	0.00	0.03	0.02	0.76	0.92	0.00	0.00	2.07	1.87
protocadherin beta-4-like	LOC100772299	100772299	0.51	0.49	0.56	0.53	0.55	0.45	31.14	35.69	45.96	45.20	54.85	38.32
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100772301	100772301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8B3-like	LOC100772302	100772302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C1	LOC100772303	100772303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein PRAME-like	LOC100772305	100772305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysine-rich nucleolar protein 1 pseudogene	LOC100772307	100772307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinoic acid early transcript 1L protein-like	LOC100772312	100772312	0.48	0.44	0.00	0.00	0.00	0.00	24.31	23.79	0.00	0.00	0.00	0.00
olfactory receptor 52E4-like	LOC100772315	100772315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100772316	100772316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin J	LOC100772318	100772318	0.06	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L39 pseudogene	LOC100772320	100772320	1.36	1.62	0.00	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	0.00
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100772321	100772321	59.33	62.10	60.45	55.25	57.88	54.13	134.44	135.42	119.24	115.89	132.48	105.62
zinc finger protein 239	LOC100772322	100772322	3.15	3.32	2.26	2.16	1.94	2.02	142.79	154.64	115.51	105.46	92.11	95.34
collagen alpha-1(V) chain	LOC100772325	100772325	33.22	32.49	24.65	17.55	13.02	13.20	3000.94	2942.75	2237.00	1609.74	1181.95	1195.44
homeobox protein Nkx-6.1-like	LOC100772326	100772326	0.00	0.18	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf153	LOC100772327	100772327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RNF6-like	LOC100772329	100772329	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
40S ribosomal protein S3 pseudogene	LOC100772332	100772332	72.25	73.99	73.23	67.52	66.23	69.34	668.39	747.58	739.04	649.00	669.64	628.10
olfactory receptor 5B12	LOC100772333	100772333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial fission regulator 1-like	LOC100772336	100772336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf84	LOC100772342	100772342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal peptidase complex subunit 2 pseudogene	LOC100772349	100772349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 4	LOC100772351	100772351	0.12	0.11	0.08	0.07	0.19	0.14	6.84	3.66	2.48	3.48	9.31	8.41
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100772354	100772354	286.37	302.65	253.94	201.21	146.97	151.86	509.65	531.63	448.39	230.63	196.65	156.09
cytochrome P450 2A3	LOC100772358	100772358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100772360	100772360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8K3-like	LOC100772362	100772362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF	LOC100772364	100772364	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

elongation of very long chain fatty acids protein 5-like	LOC100772365	100772365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 1-like	LOC100772370	100772370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361-like	LOC100772373	100772373	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein DDB_G0290685-like	LOC100772378	100772378	0.44	0.29	0.00	0.06	0.06	0.05	10.63	5.49	0.00	3.48	1.03	0.93
C-C motif chemokine 6-like	LOC100772379	100772379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ankyrin repeat domain-containing protein 26-like	LOC100772381	100772381	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.24	0.00	1.03	0.00
olfactory receptor 8G2	LOC100772384	100772384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 5-like	LOC100772387	100772387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52D1	LOC100772390	100772390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52H1	LOC100772393	100772393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin omega chain-like	LOC100772396	100772396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100772400	100772400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C46-like	LOC100772401	100772401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 33	LOC100772402	100772402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C12orf4	LOC100772405	100772405	6.37	6.46	6.33	7.30	8.29	8.22	427.62	439.22	448.39	490.22	564.07	542.11
fructose-bisphosphate aldolase A pseudogene	LOC100772407	100772407	0.19	0.19	0.16	0.15	0.26	0.00	4.56	4.58	3.73	3.48	6.21	0.00
2-hydroxyacylsphingosine 1-beta-galactosyltransferase	LOC100772408	100772408	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ras-related protein Rab-5A pseudogene	LOC100772410	100772410	2.00	1.43	0.95	1.12	1.41	1.38	23.55	26.54	12.42	9.27	11.38	9.35

testis-expressed protein 19.2-like	LOC100772413	100772413	0.00	0.04	0.05	0.09	0.00	0.00	0.00	0.92	1.24	2.32	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3 pseudogene	LOC100772416	100772416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zona pellucida sperm-binding protein 3 receptor-like	LOC100772422	100772422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cell surface glycoprotein CD200 receptor 2-like	LOC100772423	100772423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C8orf48	LOC100772424	100772424	6.97	6.62	10.56	10.60	12.20	11.56	331.16	315.69	503.05	502.97	572.35	546.78
mitochondrial import receptor subunit TOM20 homolog pseudogene	LOC100772427	100772427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100772430	100772430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SNRPN upstream reading frame protein pseudogene	LOC100772432	100772432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apoptosis inhibitor 5-like	LOC100772440	100772440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial import inner membrane translocase subunit Tim8 B	LOC100772445	100772445	0.58	0.77	0.53	0.51	1.19	0.34	4.56	7.32	4.97	3.48	8.28	1.87
dimethylaniline monooxygenase [N-oxide-forming] 5-like	LOC100772446	100772446	0.00	0.10	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M-like	LOC100772451	100772451	3.03	3.51	2.13	1.56	1.77	1.50	120.01	129.02	75.77	50.99	71.41	51.41
zinc finger protein 33B-like	LOC100772452	100772452	0.00	0.04	0.02	0.00	0.01	0.01	41.02	43.92	40.99	39.40	80.73	62.62
olfactory receptor 4P4-like	LOC100772455	100772455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial ornithine transporter 1 pseudogene	LOC100772457	100772457	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100772459	LOC100772459	100772459	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93
cytochrome c oxidase assembly protein COX14	LOC100772471	100772471	68.09	59.53	70.24	64.52	55.68	73.21	856.00	749.41	883.12	783.43	689.30	905.69
60 kDa heat shock protein, mitochondrial pseudogene	LOC100772472	100772472	0.04	0.05	0.00	0.00	0.00	0.06	3.04	2.75	1.24	2.32	3.10	6.54

DNA dC->dU-editing enzyme APOBEC3	LOC100772476	100772476	23.75	23.68	26.18	26.46	25.95	27.07	1627.69	1619.61	1796.06	1796.33	1770.86	1841.30
olfactory receptor 2T1	LOC100772482	100772482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THO complex subunit 2	LOC100772483	100772483	10.65	10.35	7.65	9.79	10.09	9.90	1689.22	1680.92	1244.57	1550.63	1612.51	1600.15
signal-regulatory protein beta-1 isoform 3-like	LOC100772487	100772487	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 147-like	LOC100772488	100772488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100772489	100772489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100772490	LOC100772490	100772490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 24-1	LOC100772494	100772494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SAP domain-containing ribonucleoprotein-like	LOC100772498	100772498	0.17	0.13	0.18	0.00	0.00	0.17	0.76	1.83	2.48	0.00	0.00	0.93
EH domain-binding protein 1-like protein 1	LOC100772499	100772499	13.76	13.63	13.22	9.54	7.56	8.57	994.24	979.09	961.38	746.34	694.48	728.11
MLV-related proviral Env polyprotein-like	LOC100772500	100772500	0.24	0.20	0.07	0.21	0.07	0.12	27.34	24.71	9.94	26.66	9.31	13.09
putative thymosin beta-4-like protein 6	LOC100772502	100772502	0.00	0.59	0.43	0.00	0.36	0.00	21.27	14.64	23.60	33.61	25.87	33.65
periphilin-1	LOC100772504	100772504	31.83	32.69	34.43	37.15	33.82	33.41	1591.99	1635.16	1733.95	1854.27	1676.68	1676.80
acidic proline-rich protein HP43A-like	LOC100772505	100772505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced protein with tetratricopeptide repeats 1-like	LOC100772509	100772509	0.03	0.03	0.00	0.02	0.02	0.01	1.52	1.83	0.00	1.16	1.03	0.00
T-cell ecto-ADP-ribosyltransferase 1-like	LOC100772512	100772512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 13A1-like	LOC100772515	100772515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100772517	100772517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

pre-mRNA-processing factor 17 pseudogene	LOC100772519	100772519	0.00	0.06	0.00	0.00	0.03	0.00	0.00	1.83	0.00	1.16	2.07	0.93
triosephosphate isomerase pseudogene	LOC100772521	100772521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rac GTPase-activating protein 1 pseudogene	LOC100772522	100772522	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ER membrane protein complex subunit 8 pseudogene	LOC100772523	100772523	0.36	0.18	0.17	0.00	0.07	0.06	5.32	1.83	1.24	0.00	1.03	0.93
acyl-protein thioesterase 1 pseudogene	LOC100772525	100772525	0.44	0.54	0.29	0.36	0.58	0.48	0.76	0.00	0.00	0.00	2.07	0.93
zinc finger and SCAN domain-containing protein 25-like	LOC100772526	100772526	5.20	5.28	4.87	4.39	3.19	3.49	254.45	260.78	244.69	214.40	156.28	171.04
uncharacterized LOC100772531	LOC100772531	100772531	32.06	31.83	29.50	25.56	18.03	19.16	2941.70	2915.30	2745.01	2365.36	1678.75	1740.35
60S ribosomal protein L13 pseudogene	LOC100772533	100772533	6.00	4.83	6.78	3.55	4.95	3.77	85.83	83.27	105.58	60.26	81.76	50.47
60S ribosomal protein L31 pseudogene	LOC100772534	100772534	0.25	0.15	0.21	0.31	0.18	0.49	4.56	2.75	2.48	3.48	2.07	6.54
chromosome unknown open reading frame, human C16orf91	LOC100772541	100772541	44.21	43.44	47.32	45.06	35.65	39.87	1030.69	1036.73	1157.62	1087.07	900.44	968.32
vacuolar protein sorting-associated protein 72 homolog pseudogene	LOC100772545	100772545	1.10	0.60	0.58	0.51	0.56	0.47	22.03	16.47	13.66	10.43	8.28	7.48
olfactory receptor 2G3	LOC100772548	100772548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100772550	100772550	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93
cytochrome b561	LOC100772551	100772551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase-like	LOC100772558	100772558	0.03	0.04	0.10	0.00	0.00	0.00	0.76	0.92	2.48	0.00	0.00	0.00
dnaJ homolog subfamily A member 2 pseudogene	LOC100772561	100772561	0.79	0.92	0.58	0.43	0.58	0.51	37.98	39.35	26.08	18.54	24.84	20.56
chondroitin sulfate N-acetylgalactosaminyltransferase 2 pseudogene	LOC100772562	100772562	3.81	4.07	3.88	4.30	4.54	4.45	3.80	4.58	6.21	2.32	3.10	1.87
peptidyl-prolyl cis-trans isomerase A-like	LOC100772563	100772563	7.36	7.82	6.35	4.57	5.85	3.63	51.65	56.73	43.47	34.77	38.29	16.82

ubiquitin-like protein FUBI pseudogene	LOC100772565	100772565	0.00	0.00	0.21	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
major urinary protein 20-like	LOC100772566	100772566	0.00	0.06	0.00	0.00	0.00	0.19	0.76	0.92	0.00	1.16	0.00	3.74
vomeronasal type-2 receptor 116-like	LOC100772567	100772567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M pseudogene	LOC100772568	100772568	71.92	74.38	59.82	59.21	62.92	61.28	1383.12	1398.17	1120.36	1121.83	1181.95	1172.08
mitochondrial import receptor subunit TOM22 homolog	LOC100772572	100772572	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.92	2.48	0.00	1.03	0.93
uncharacterized LOC100772574	LOC100772574	100772574	13.73	13.24	0.36	0.45	0.52	0.54	1528.95	1449.41	44.72	47.52	60.03	61.69
collagen alpha-5(IV) chain	LOC100772575	100772575	11.24	11.88	21.42	20.62	17.13	18.13	2296.09	2453.20	4351.03	4205.72	3488.94	3695.68
vomeronasal type-1 receptor 4-like	LOC100772580	100772580	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
amine sulfotransferase-like	LOC100772585	100772585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired immunoglobulin-like type 2 receptor alpha	LOC100772586	100772586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1-like	LOC100772588	100772588	0.12	0.11	0.00	0.00	0.00	0.00	3.80	2.75	0.00	0.00	0.00	0.00
protein S100-A15A	LOC100772591	100772591	0.28	0.69	0.16	0.00	0.00	0.12	3.80	9.15	1.24	0.00	0.00	0.93
protocadherin beta-5-like	LOC100772593	100772593	0.33	0.30	0.04	0.10	0.24	0.17	68.36	56.73	6.21	18.54	47.61	29.91
52 kDa repressor of the inhibitor of the protein kinase-like	LOC100772596	100772596	2.47	2.47	3.02	2.52	2.45	2.25	110.13	114.38	144.08	118.21	111.78	113.10
olfactory receptor 6C1	LOC100772597	100772597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein PRAME-like	LOC100772599	100772599	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100772601	LOC100772601	100772601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf169	LOC100772606	100772606	0.08	0.10	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00

serine/threonine-protein phosphatase 2A catalytic subunit beta isoform pseudogene	LOC100772608	100772608	1.13	0.80	0.57	0.20	0.83	0.42	19.75	12.81	7.45	1.16	8.28	3.74
speckle-type POZ protein-like	LOC100772609	100772609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cathepsin R-like	LOC100772611	100772611	0.03	0.00	0.00	0.00	0.00	0.00	2.28	0.00	1.24	0.00	0.00	0.93
olfactory receptor 1030	LOC100772613	100772613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 813-like	LOC100772614	100772614	4.44	4.66	6.83	4.92	6.42	7.47	208.11	214.12	296.86	246.85	321.88	346.76
mitochondrial inner membrane protein OXA1L pseudogene	LOC100772618	100772618	0.08	0.06	0.07	0.00	0.10	0.03	3.04	1.83	2.48	0.00	3.10	0.93
mitochondrial intermembrane space import and assembly protein 40-like	LOC100772624	100772624	13.89	13.07	13.04	12.05	13.52	11.63	217.99	197.65	192.52	181.95	195.61	171.04
ubiquitin carboxyl-terminal hydrolase 11-like	LOC100772626	100772626	12.99	13.09	16.85	19.27	17.62	17.58	111.65	115.29	136.63	162.25	159.39	155.16
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC100772628	100772628	0.08	0.13	0.14	0.04	0.19	0.10	0.76	0.92	1.24	0.00	1.03	0.93
60S ribosomal protein L36a-like	LOC100772630	100772630	1191.80	1214.31	1097.34	1141.86	1156.63	1263.34	11241.18	11469.95	10212.44	10144.03	10597.22	11288.01
IQ domain-containing protein F6	LOC100772635	100772635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycosaminoglycan xylosylkinase-like	LOC100772636	100772636	0.02	0.00	0.04	0.04	0.00	0.06	0.76	0.00	1.24	1.16	0.00	1.87
succinyl-CoA:3-ketoacid coenzyme A transferase 2A, mitochondrial	LOC100772647	100772647	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
ATP synthase subunit g, mitochondrial pseudogene	LOC100772648	100772648	194.74	197.16	214.50	193.27	209.31	221.06	65.32	55.82	49.68	42.88	38.29	60.75
60S ribosomal protein L26-like 1 pseudogene	LOC100772649	100772649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4C15-like	LOC100772650	100772650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 58-like	LOC100772652	100772652	2.18	1.54	0.37	1.67	1.99	2.29	34.18	26.54	16.15	27.81	35.19	32.71
olfactory receptor 8K3-like	LOC100772653	100772653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L9 pseudogene	LOC100772654	100772654	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 63	LOC100772655	100772655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mothers against decapentaplegic homolog 2-like	LOC100772656	100772656	0.07	0.09	0.12	0.04	0.05	0.03	2.28	2.75	3.73	1.16	1.03	0.93
HLA class I histocompatibility antigen, A-32 alpha chain-like	LOC100772658	100772658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 180	LOC100772662	100772662	5.89	5.72	5.75	6.60	7.16	6.76	1251.72	1239.87	1218.49	1461.40	1562.83	1453.41
lupus La protein homolog pseudogene	LOC100772663	100772663	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361-like	LOC100772665	100772665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37 pseudogene	LOC100772666	100772666	6.58	11.32	10.21	6.33	6.54	6.06	21.27	40.26	37.26	23.18	22.77	22.43
60S ribosomal protein L18a pseudogene	LOC100772669	100772669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain protein 18-like	LOC100772673	100772673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polynucleotide 5'-hydroxyl-kinase NOL9-like	LOC100772676	100772676	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras association domain-containing protein 8 pseudogene	LOC100772678	100772678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15-like	LOC100772679	100772679	0.60	0.43	0.39	0.09	0.00	0.08	7.60	6.41	4.97	1.16	0.00	0.93
POU domain, class 4, transcription factor 2-like	LOC100772680	100772680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC100772681	100772681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hemoglobin subunit beta-H0-like	LOC100772684	100772684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
folate receptor beta-like	LOC100772685	100772685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52D1	LOC100772687	100772687	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized protein C14orf37 homolog	LOC100772688	100772688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin omega chain-like	LOC100772690	100772690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100772694	100772694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial pyruvate carrier 1	LOC100772695	100772695	7.02	7.90	4.50	7.61	8.06	8.39	31.14	39.35	21.12	32.45	34.15	30.84
chromosome unknown open reading frame, human C2orf78	LOC100772700	100772700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L22, mitochondrial pseudogene	LOC100772702	100772702	0.40	0.07	0.20	0.00	0.73	0.31	4.56	0.92	1.24	0.00	8.28	3.74
ankyrin repeat domain-containing protein 7-like	LOC100772703	100772703	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
melanoma-associated antigen B2-like	LOC100772705	100772705	0.02	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
SUMO-activating enzyme subunit 2 pseudogene	LOC100772709	100772709	0.41	0.59	0.42	0.77	0.59	0.48	15.95	21.96	16.15	28.97	20.70	17.76
olfactory receptor 507-like	LOC100772710	100772710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sal-like protein 4	LOC100772712	100772712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4b-binding protein alpha chain-like	LOC100772713	100772713	0.00	0.00	0.00	0.00	0.00	0.04	0.76	0.00	0.00	0.00	0.00	2.80
cell surface glycoprotein CD200 receptor 1-like	LOC100772714	100772714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3a pseudogene	LOC100772715	100772715	4.45	6.19	4.86	2.73	3.59	2.23	49.37	72.29	54.65	25.50	33.12	23.37
28S ribosomal protein S18c, mitochondrial pseudogene	LOC100772717	100772717	0.14	0.34	0.35	0.23	0.20	0.09	1.52	2.75	3.73	2.32	2.07	0.93
upstream-binding factor 1-like protein 1	LOC100772718	100772718	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
tripartite motif-containing protein 30A-like	LOC100772719	100772719	0.12	0.08	0.04	0.00	0.01	0.04	5.32	5.49	3.73	1.16	0.00	2.80
40S ribosomal protein S9 pseudogene	LOC100772721	100772721	219.68	230.35	179.56	100.52	54.77	57.37	2494.33	2812.81	2297.86	1348.98	596.15	710.35

E3 ubiquitin-protein ligase RNF168-like	LOC100772724	100772724	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2B type 1	LOC100772735	100772735	6.46	5.62	5.92	3.24	1.75	2.51	2.28	1.83	1.24	0.00	1.03	0.00
zinc finger HIT domain-containing protein 3 pseudogene	LOC100772737	100772737	5.00	5.58	1.85	2.43	1.66	2.22	50.13	53.99	18.63	23.18	15.52	20.56
ER membrane protein complex subunit 4 pseudogene	LOC100772738	100772738	0.49	0.33	0.36	0.34	0.15	0.07	3.04	2.75	3.73	2.32	0.00	0.93
cytochrome P450 4F22	LOC100772743	100772743	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactory receptor 4P4-like	LOC100772744	100772744	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase ZNRF3	LOC100772745	100772745	9.70	9.75	9.01	9.26	8.81	8.93	1838.84	1851.11	1740.16	1749.97	1652.87	1722.60
vitamin D 25-hydroxylase	LOC100772751	100772751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S23	LOC100772755	100772755	7.35	6.17	4.61	2.89	3.45	4.77	63.04	56.73	40.99	24.34	28.98	38.32
kinesin-like protein KIF20A	LOC100772756	100772756	4.67	4.21	4.69	4.25	5.01	5.49	50.13	44.84	42.23	31.29	49.68	42.06
intelectin-1a-like	LOC100772757	100772757	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
histone H1oo	LOC100772759	100772759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100772762	LOC100772762	100772762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bystin-like	LOC100772765	100772765	48.41	47.97	45.63	34.98	29.01	29.63	1914.80	1917.91	1829.59	1420.84	1158.15	1198.25
transmembrane protein 56	LOC100772772	100772772	0.70	0.57	0.46	0.68	0.27	0.27	40.26	34.77	23.60	37.09	15.52	14.02
olfactory receptor 2T11-like	LOC100772774	100772774	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100772776	100772776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal-regulatory protein beta-1-like	LOC100772779	100772779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 145	LOC100772780	100772780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100772781	100772781	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7B2, mitochondrial-like	LOC100772782	100772782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 26-1	LOC100772786	100772786	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf123	LOC100772787	100772787	11.43	12.10	12.93	14.24	11.41	14.08	542.31	570.07	604.90	650.15	526.81	643.05
40S ribosomal protein S21 pseudogene	LOC100772789	100772789	2.50	1.91	1.42	1.57	0.53	1.23	12.15	10.07	9.94	11.59	1.03	6.54
pyruvate dehydrogenase E1 component subunit alpha, testis-specific form, mitochondrial-like	LOC100772790	100772790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein kinase 40 pseudogene	LOC100772791	100772791	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
neuron-specific protein family member 1	LOC100772794	100772794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
acidic proline-rich protein HP43A-like	LOC100772796	100772796	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced protein with tetratricopeptide repeats 1-like	LOC100772800	100772800	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	0.00	0.00
membrane-spanning 4-domains subfamily A member 12-like	LOC100772802	100772802	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
T-cell ecto-ADP-ribosyltransferase 2-like	LOC100772803	100772803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycosyl-phosphatidylinositol-anchored molecule-like protein	LOC100772804	100772804	0.06	0.03	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC100772806	100772806	1.08	1.38	1.11	1.20	1.36	1.03	29.62	39.35	40.99	42.88	40.36	33.65
mothers against decapentaplegic homolog 1-like	LOC100772812	100772812	0.16	0.13	0.18	0.00	0.46	0.07	0.76	0.00	0.00	1.16	1.03	0.00
histone-binding protein RBBP4 pseudogene	LOC100772818	100772818	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12 pseudogene	LOC100772820	100772820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ferritin heavy chain pseudogene	LOC100772821	100772821	1.20	0.73	1.14	1.90	0.91	1.20	9.11	5.49	7.45	12.75	6.21	10.28
S-methyl-5'-thioadenosine phosphorylase pseudogene	LOC100772823	100772823	0.28	0.33	0.42	0.31	0.18	0.18	6.84	7.32	8.69	6.95	3.10	3.74
60S ribosomal protein L21-like	LOC100772825	100772825	1.62	2.30	1.60	0.71	0.95	0.66	18.23	16.47	14.91	9.27	15.52	19.63
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100772826	100772826	4.98	5.06	3.27	1.66	2.21	1.77	45.57	37.52	24.84	17.38	16.56	19.63
60S ribosomal protein L6 pseudogene	LOC100772833	100772833	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	1.16	0.00	0.93
hemoglobin subunit alpha	LOC100772835	100772835	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S18 pseudogene	LOC100772839	100772839	0.05	0.00	0.00	0.16	0.00	0.00	1.52	2.75	0.00	1.16	1.03	0.00
putative olfactory receptor 7A2	LOC100772840	100772840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2A12	LOC100772841	100772841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfotransferase 1C2-like	LOC100772845	100772845	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
structural maintenance of chromosomes protein 6-like	LOC100772847	100772847	0.40	0.42	0.39	0.44	0.39	0.29	31.14	32.03	26.08	34.77	28.98	20.56
succinate dehydrogenase cytochrome b560 subunit, mitochondrial-like	LOC100772851	100772851	0.00	0.00	0.15	0.14	0.12	0.00	1.52	0.00	3.73	1.16	2.07	1.87
40S ribosomal protein S28 pseudogene	LOC100772854	100772854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1G1-like	LOC100772855	100772855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin domain-containing protein 17 pseudogene	LOC100772856	100772856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium-dependent glucose transporter 1	LOC100772858	100772858	0.00	0.02	0.06	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00
acyl-coenzyme A thioesterase 1	LOC100772859	100772859	25.64	24.47	22.40	21.80	20.34	20.79	1421.86	1384.45	1276.87	1311.90	1266.82	1341.25
cytochrome c, somatic pseudogene	LOC100772864	100772864	0.47	0.16	0.00	0.00	0.00	0.00	5.32	2.75	0.00	1.16	0.00	0.00

plexin-B2-like	LOC100772866	100772866	1.09	0.98	1.35	1.13	1.10	1.09	49.37	45.75	72.04	39.40	48.64	39.26
60S ribosomal protein L32 pseudogene	LOC100772875	100772875	19.93	20.80	22.55	21.10	24.40	21.36	104.06	125.36	94.40	78.81	113.85	75.71
single-stranded DNA-binding protein 2 pseudogene	LOC100772876	100772876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L10-like	LOC100772878	100772878	1.88	2.22	1.87	0.98	1.44	1.11	17.47	34.77	28.57	12.75	19.66	16.82
probable ATP-dependent RNA helicase DDX5	LOC100772886	100772886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin-3-like	LOC100772887	100772887	0.86	0.69	0.86	0.75	1.00	0.86	27.34	21.96	17.39	19.70	33.12	26.17
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100772888	100772888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 147-like	LOC100772889	100772889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C2	LOC100772890	100772890	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor A protein-like 3	LOC100772892	100772892	0.17	0.32	0.02	0.03	0.08	0.04	1.52	6.41	0.00	0.00	1.03	1.87
60 kDa heat shock protein, mitochondrial pseudogene	LOC100772893	100772893	0.09	0.30	0.26	0.17	0.19	0.10	3.04	10.07	8.69	5.79	6.21	2.80
DNA-(apurinic or apyrimidinic site) lyase 2	LOC100772896	100772896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC100772897	100772897	0.00	0.00	0.00	0.00	0.02	0.00	0.76	0.00	3.73	2.32	0.00	0.93
olfactory receptor 52N5	LOC100772900	100772900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100772901	100772901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
cathepsin Q-like	LOC100772903	100772903	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
putative zinc finger protein 56	LOC100772906	100772906	2.03	2.11	1.34	1.28	1.39	2.07	53.17	44.84	39.75	31.29	35.19	41.13
putative protein FAM47D	LOC100772911	100772911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60 kDa heat shock protein, mitochondrial-like	LOC100772913	100772913	0.13	0.28	0.24	0.15	0.20	0.04	3.04	9.15	6.21	5.79	6.21	0.93
chromosome unknown open reading frame, human C11orf52	LOC100772917	100772917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100772918	100772918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
survival of motor neuron-related-splicing factor 30 pseudogene	LOC100772923	100772923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 pseudogene	LOC100772928	100772928	0.97	1.06	0.67	0.47	0.60	0.48	10.63	11.90	9.94	5.79	5.17	4.67
heterogeneous nuclear ribonucleoproteins C1/C2-like	LOC100772933	100772933	0.39	0.41	0.40	0.42	0.16	0.41	11.39	9.15	11.18	10.43	4.14	9.35
chromosome unknown open reading frame, human C22orf39	LOC100772934	100772934	14.85	16.30	14.44	14.33	15.76	17.48	420.78	472.16	422.31	428.80	467.81	517.81
zinc finger protein 512 pseudogene	LOC100772941	100772941	0.20	0.27	0.26	0.22	0.18	0.27	7.60	10.07	6.21	6.95	5.17	10.28
zinc finger protein 58-like	LOC100772943	100772943	1.11	1.04	1.31	1.47	1.49	1.59	71.40	64.05	81.98	82.28	85.90	95.34
olfactory receptor 8K3	LOC100772944	100772944	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCI domain-containing protein 2 pseudogene	LOC100772945	100772945	0.24	0.11	0.22	0.12	0.24	0.26	7.60	4.58	7.45	3.48	7.24	8.41
olfactory receptor 10H1-like	LOC100772946	100772946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A)-specific ribonuclease PARN-like domain-containing protein 1 pseudogene	LOC100772948	100772948	2.30	2.05	2.78	3.00	2.40	2.45	158.74	144.58	192.52	206.29	166.63	167.31
HLA class I histocompatibility antigen, A-23 alpha chain-like	LOC100772949	100772949	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD209 antigen-like protein E	LOC100772951	100772951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1361	LOC100772955	100772955	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
short stature homeobox protein 2-like	LOC100772956	100772956	9.21	8.77	12.32	11.90	8.97	11.47	274.95	275.43	357.72	348.83	252.54	276.66
ribosome biogenesis protein NSA2 homolog pseudogene	LOC100772961	100772961	5.51	3.75	3.98	3.49	4.40	3.97	9.11	4.58	4.97	1.16	3.10	5.61

60S ribosomal protein L27a pseudogene	LOC100772964	100772964	6.07	5.04	4.42	3.64	3.06	3.39	41.77	33.86	32.29	22.02	18.63	23.37
glutamate decarboxylase 2-like	LOC100772965	100772965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC100772966	100772966	0.28	0.51	0.50	0.24	0.17	0.31	3.04	1.83	2.48	1.16	2.07	3.74
olfactory receptor 150	LOC100772967	100772967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable isocitrate dehydrogenase [NAD] gamma 2, mitochondrial	LOC100772968	100772968	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51B4-like	LOC100772973	100772973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 52P1	LOC100772975	100772975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig lambda chain V-II region MGC	LOC100772977	100772977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate dehydrogenase E1 component subunit beta, mitochondrial pseudogene	LOC100772980	100772980	1.31	1.77	1.67	1.38	1.50	1.19	64.56	69.54	68.31	57.95	73.48	68.23
putative vomeronasal receptor-like protein 4	LOC100772981	100772981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC100772982	100772982	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
melanoma-associated antigen G1-like	LOC100772988	100772988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
actin-related protein 10 pseudogene	LOC100772990	100772990	0.14	0.07	0.04	0.08	0.07	0.07	3.04	1.83	0.00	2.32	1.03	1.87
proliferating cell nuclear antigen pseudogene	LOC100772992	100772992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
anaphase-promoting complex subunit 13 pseudogene	LOC100772996	100772996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 494	LOC100772997	100772997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selenoprotein K pseudogene	LOC100772998	100772998	0.51	0.27	0.37	0.75	0.31	0.00	1.52	0.00	1.24	2.32	1.03	0.00
chromosome unknown open reading frame, human C3orf17	LOC100773001	100773001	9.44	9.26	9.09	10.40	8.64	9.21	458.00	427.32	439.70	465.89	424.34	444.90

vomeronasal type-2 receptor 116-like	LOC100773004	100773004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alcohol dehydrogenase 1-like	LOC100773005	100773005	0.05	0.04	0.00	0.00	0.03	0.02	2.28	0.92	0.00	0.00	2.07	0.93
disks large homolog 5-like	LOC100773006	100773006	0.00	0.08	0.06	0.00	0.00	0.00	0.76	2.75	1.24	0.00	3.10	0.00
F-box/WD repeat-containing protein 12-like	LOC100773008	100773008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) polymerase alpha-like	LOC100773010	100773010	0.59	0.48	0.31	0.26	0.20	0.40	11.39	8.24	3.73	4.64	4.14	9.35
putative GTP-binding protein 6	LOC100773017	100773017	56.54	53.88	53.42	49.71	38.70	46.70	1060.32	1032.16	947.71	843.69	630.31	754.28
heat shock transcription factor, Y-linked-like	LOC100773019	100773019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A type 1	LOC100773020	100773020	0.06	0.40	0.00	0.00	0.00	0.00	2.28	3.66	0.00	1.16	0.00	0.93
putative testis-specific Y-encoded-like protein 3	LOC100773021	100773021	0.06	0.07	0.00	0.00	0.00	0.04	2.28	1.83	1.24	0.00	0.00	0.93
swi5-dependent recombination DNA repair protein 1 homolog pseudogene	LOC100773022	100773022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial pseudogene	LOC100773028	100773028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4F5-like	LOC100773031	100773031	0.00	0.05	0.06	0.01	0.02	0.04	0.00	0.00	2.48	0.00	0.00	0.00
olfactory receptor 5D13-like	LOC100773032	100773032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C12orf73	LOC100773036	100773036	21.86	22.78	24.45	21.14	21.07	23.41	943.35	954.38	984.97	770.68	777.27	833.73
chromosome unknown open reading frame, human C6orf226	LOC100773037	100773037	15.22	15.32	16.57	15.62	15.11	15.46	970.69	978.17	1058.26	992.04	956.33	987.95
proteasome subunit beta type-3 pseudogene	LOC100773039	100773039	0.09	0.18	0.03	0.09	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
non-POU domain-containing octamer-binding protein-like	LOC100773041	100773041	0.00	0.05	0.00	0.03	0.00	0.00	0.76	3.66	0.00	2.32	0.00	0.00
eukaryotic translation initiation factor 1 pseudogene	LOC100773042	100773042	1.89	2.07	1.41	0.48	1.05	1.03	10.63	17.39	12.42	1.16	5.17	6.54

nucleophosmin-like	LOC100773044	100773044	3.89	3.94	3.32	2.85	2.63	2.36	180.77	249.80	193.77	242.21	199.75	134.59
uncharacterized LOC100773046	LOC100773046	100773046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuropeptide Y receptor type 6	LOC100773047	100773047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein HMG-I/HMG-Y-like	LOC100773049	100773049	17.03	16.68	17.66	10.30	10.48	11.14	95.70	116.21	120.48	76.49	62.10	57.95
tripartite motif-containing protein 6 pseudogene	LOC100773054	100773054	0.52	0.45	0.58	0.82	0.56	0.56	21.27	15.56	18.63	38.24	24.84	25.24
lithocholate 6-beta-hydroxylase	LOC100773059	100773059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kish-A pseudogene	LOC100773061	100773061	0.00	0.00	0.00	0.46	0.00	0.00	0.00	3.66	1.24	1.16	3.10	0.93
chromosome unknown open reading frame, human C16orf92	LOC100773062	100773062	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T29-like	LOC100773064	100773064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 143-like	LOC100773068	100773068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 2-like	LOC100773069	100773069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
annexin A8	LOC100773073	100773073	10.88	12.06	0.91	1.07	0.92	0.66	600.04	658.82	47.20	57.95	50.71	33.65
keratin-associated protein 27-1	LOC100773074	100773074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf75	LOC100773076	100773076	3.33	3.31	3.76	3.94	3.12	4.32	148.11	163.79	180.10	195.86	148.00	206.56
adenylate kinase 4, mitochondrial pseudogene	LOC100773078	100773078	0.21	0.51	0.17	0.08	0.07	0.07	3.80	10.07	2.48	1.16	1.03	1.87
60S ribosomal protein L7a-like	LOC100773079	100773079	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic proline-rich protein PRP25-like	LOC100773083	100773083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
interferon-induced protein with tetratricopeptide repeats 2-like	LOC100773087	100773087	0.05	0.04	0.01	0.00	0.02	0.01	0.76	0.92	0.00	0.00	0.00	0.00

cyclin-dependent kinase 11B	LOC100773089	100773089	35.24	33.25	34.31	36.88	35.88	36.34	1907.20	1936.21	1992.31	2066.35	2104.13	2070.29
40S ribosomal protein S8-like	LOC100773092	100773092	0.06	0.00	0.09	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
transcription initiation factor IIA subunit 2 pseudogene	LOC100773099	100773099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
signal-regulatory protein beta-1 isoform 3-like	LOC100773101	100773101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23 pseudogene	LOC100773102	100773102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100773104	100773104	0.06	0.02	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
nuclear ubiquitous casein and cyclin-dependent kinase substrate 1 pseudogene	LOC100773106	100773106	2.63	2.67	1.93	2.20	2.31	1.57	31.14	36.60	22.36	31.29	32.08	26.17
transmembrane protein 51-like	LOC100773107	100773107	3.99	3.85	4.03	1.76	1.91	1.69	55.45	53.99	58.38	23.18	28.98	29.91
alcohol dehydrogenase [NADP(+)] pseudogene	LOC100773108	100773108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100773109	100773109	0.08	0.00	0.00	0.00	0.00	0.21	0.76	0.00	0.00	0.00	0.00	1.87
chromosome unknown open reading frame, human C19orf66	LOC100773113	100773113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EKC/KEOPS complex subunit Tprkb pseudogene	LOC100773114	100773114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10J5	LOC100773116	100773116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf94	LOC100773118	100773118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3	LOC100773119	100773119	12.62	10.87	6.98	6.49	11.94	7.36	66.84	60.39	37.26	31.29	63.13	36.45
cysteine protease ATG4A pseudogene	LOC100773120	100773120	0.02	0.03	0.00	0.07	0.10	0.01	1.52	0.92	1.24	2.32	3.10	0.00
U6 snRNA-associated Sm-like protein LSm3 pseudogene	LOC100773124	100773124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
60S acidic ribosomal protein P1 pseudogene	LOC100773127	100773127	0.43	0.43	0.42	0.17	0.23	0.28	2.28	3.66	1.24	2.32	1.03	1.87

olfactory receptor 7A17-like	LOC100773130	100773130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calcineurin B homologous protein 1 pseudogene	LOC100773132	100773132	0.27	0.56	0.21	0.20	0.35	0.34	5.32	10.07	3.73	2.32	5.17	4.67
ADP-ribosylation factor 1 pseudogene	LOC100773135	100773135	2.00	3.70	2.70	2.39	2.32	1.45	62.28	93.33	73.28	61.42	47.61	32.71
MOB-like protein phocein	LOC100773141	100773141	21.29	22.52	19.67	20.70	24.67	22.21	1708.20	1857.52	1617.20	1694.34	1920.93	1751.57
golgin subfamily A member 7-like	LOC100773142	100773142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5C1	LOC100773143	100773143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lithostathine-2	LOC100773144	100773144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative bifunctional UDP-N-acetylglucosamine transferase and deubiquitinase ALG13	LOC100773146	100773146	0.02	0.01	0.02	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	0.00
bone morphogenetic protein 8B	LOC100773147	100773147	0.06	0.05	0.03	0.03	0.00	0.02	3.04	2.75	3.73	1.16	0.00	0.93
40S ribosomal protein S15 pseudogene	LOC100773148	100773148	0.00	0.27	0.19	0.18	0.16	0.43	0.00	1.83	1.24	2.32	1.03	2.80
uncharacterized LOC100773149	LOC100773149	100773149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 4E2	LOC100773156	100773156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf89	LOC100773157	100773157	0.03	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100773165	100773165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative SMEK homolog 3	LOC100773171	100773171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uncharacterized protein C6orf125-like	LOC100773172	100773172	386.14	392.84	366.83	291.88	240.46	254.17	3671.61	3757.13	3434.37	2624.95	2269.72	2366.58
protein S100-A9-like	LOC100773174	100773174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100773177	100773177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 145-like	LOC100773178	100773178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HERV-F(c)1_Xq21.33 provirus ancestral Gag polyprotein-like	LOC100773179	100773179	0.94	1.42	0.90	1.09	0.82	0.90	6.84	9.15	4.97	6.95	4.14	7.48
olfactory receptor 52E4-like	LOC100773191	100773191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUT family member Gm806-like	LOC100773193	100773193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC100773195	100773195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10A3-like	LOC100773196	100773196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
suppressor of cytokine signaling 5-like	LOC100773197	100773197	0.00	0.00	0.00	0.10	0.00	0.04	0.00	0.00	0.00	2.32	0.00	0.93
dimethylaniline monooxygenase [N-oxide-forming] 5-like	LOC100773198	100773198	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
hepatoma-derived growth factor-related protein 2 pseudogene	LOC100773202	100773202	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
transaldolase pseudogene	LOC100773203	100773203	1.26	1.12	1.11	1.17	1.39	0.92	23.55	20.13	16.15	20.86	20.70	13.09
solute carrier family 22 member 9-like	LOC100773204	100773204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal transducer CD24 pseudogene	LOC100773223	100773223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit alpha type-6 pseudogene	LOC100773234	100773234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit I-like	LOC100773235	100773235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
fatty acid desaturase 2-like protein FADS2P1	LOC100773237	100773237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10H1	LOC100773239	100773239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class I histocompatibility antigen, A-24 alpha chain	LOC100773242	100773242	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	1.16	0.00	0.93
CD209 antigen-like protein D	LOC100773244	100773244	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

myosin regulatory light polypeptide 9 pseudogene	LOC100773248	100773248	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/Arginine-related protein 53	LOC100773250	100773250	11.86	12.06	10.16	10.57	6.94	6.29	287.87	290.98	253.39	249.17	173.88	154.22
homeobox protein TGIF2LX-like	LOC100773252	100773252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic proline-rich protein HP43A-like	LOC100773254	100773254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain protein 18-like	LOC100773255	100773255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b561 domain-containing protein 1	LOC100773256	100773256	4.61	5.10	5.09	5.19	5.32	5.33	577.25	653.33	662.03	659.43	669.64	682.31
olfactory receptor 1537-like	LOC100773260	100773260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein NDRG1 pseudogene	LOC100773261	100773261	2.37	1.79	0.76	0.50	0.48	0.58	70.64	52.16	21.12	15.07	12.42	17.76
poly(rC)-binding protein 2 pseudogene	LOC100773263	100773263	2.54	2.31	1.58	1.42	1.81	1.40	53.17	72.29	52.17	31.29	42.43	28.97
olfactory receptor 51B2	LOC100773265	100773265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39S ribosomal protein L15, mitochondrial pseudogene	LOC100773266	100773266	0.12	0.17	0.23	0.08	0.10	0.13	2.28	3.66	4.97	1.16	2.07	2.80
putative olfactory receptor 52P1	LOC100773267	100773267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf3	LOC100773268	100773268	1.44	1.71	1.15	1.44	0.88	1.49	107.85	123.53	85.70	107.78	69.34	99.07
chromobox protein homolog 3 pseudogene	LOC100773271	100773271	0.28	0.25	0.23	0.11	0.38	0.35	2.28	2.75	2.48	1.16	4.14	3.74
olfactory receptor 13A1	LOC100773272	100773272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prolyl 4-hydroxylase subunit alpha-2-like	LOC100773275	100773275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L29 pseudogene	LOC100773276	100773276	0.10	0.33	0.23	0.15	0.00	0.00	2.28	8.24	3.73	2.32	0.00	0.00
uncharacterized protein C2orf78 homolog	LOC100773281	100773281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ubiquitin-40S ribosomal protein S27a pseudogene	LOC100773284	100773284	78.88	82.18	78.76	66.75	73.10	66.30	719.28	802.48	819.78	632.77	748.30	591.65
PGC-1 and ERR-induced regulator in muscle protein 1-like	LOC100773289	100773289	0.18	0.28	0.15	0.18	0.29	0.24	25.82	31.11	24.84	33.61	38.29	36.45
olfactory receptor 502-like	LOC100773291	100773291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC100773296	100773296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein N-terminal glutamine amidohydrolase-like	LOC100773297	100773297	6.75	9.28	5.17	4.74	6.82	6.10	85.07	122.61	64.59	59.10	84.87	82.25
RELT-like protein 1	LOC100773300	100773300	43.51	42.16	40.72	40.90	35.89	29.38	634.97	587.45	572.60	552.80	491.62	443.03
myc proto-oncogene protein-like	LOC100773301	100773301	116.10	112.77	90.90	52.86	35.05	31.84	4813.96	4755.43	3793.33	2218.17	1482.10	1343.12
ankyrin repeat domain-containing protein 26-like	LOC100773302	100773302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gastric inhibitory polypeptide	LOC100773303	100773303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golgi SNAP receptor complex member 1 pseudogene	LOC100773306	100773306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein Tmp21-like	LOC100773308	100773308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3	LOC100773314	100773314	0.00	0.00	0.00	0.00	0.02	0.00	1.52	3.66	0.00	1.16	1.03	0.93
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC100773321	100773321	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F-box/WD repeat-containing protein 11 pseudogene	LOC100773322	100773322	0.00	0.00	0.00	0.03	0.00	0.05	0.00	0.00	0.00	1.16	0.00	1.87
40S ribosomal protein S21 pseudogene	LOC100773324	100773324	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4F5	LOC100773326	100773326	2.45	2.36	3.01	2.20	2.16	2.34	135.20	139.09	166.44	114.73	116.95	136.46
olfactory receptor 5D13-like	LOC100773327	100773327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C2orf68	LOC100773330	100773330	4.61	4.12	2.95	3.27	2.76	3.46	171.66	157.39	104.34	121.69	111.78	135.53

peroxiredoxin-1 pseudogene	LOC100773334	100773334	3.41	4.32	5.39	2.79	4.16	3.11	10.63	14.64	13.66	3.48	11.38	10.28
mitochondrial pyruvate carrier 2 pseudogene	LOC100773336	100773336	0.29	0.12	0.13	0.16	0.45	0.47	8.35	11.90	12.42	5.79	15.52	14.02
chromosome unknown open reading frame, human C1orf192	LOC100773340	100773340	0.23	0.14	0.34	0.28	0.39	0.66	18.99	19.22	22.36	27.81	30.01	48.60
60S ribosomal protein L34 pseudogene	LOC100773347	100773347	3.53	3.76	2.19	2.03	2.25	3.11	18.23	12.81	7.45	5.79	9.31	14.95
PRAME family member 12-like	LOC100773348	100773348	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
natural killer cells antigen CD94-like	LOC100773349	100773349	0.15	0.14	0.26	0.26	0.37	0.41	22.79	21.96	49.68	57.95	60.03	55.15
enoyl-CoA delta isomerase 1, mitochondrial-like	LOC100773350	100773350	5.64	5.05	6.49	5.23	4.36	5.16	106.34	99.74	157.75	137.91	97.29	112.16
cytochrome P450 3A31	LOC100773351	100773351	0.19	0.27	0.34	0.41	0.24	0.53	14.43	21.96	24.84	31.29	21.73	38.32
olfactory receptor 2T4-like	LOC100773357	100773357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nascent polypeptide-associated complex subunit alpha pseudogene	LOC100773358	100773358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 143-like	LOC100773361	100773361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100773362	100773362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calponin-3 pseudogene	LOC100773364	100773364	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
neuropeptide Y receptor type 4	LOC100773366	100773366	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1-like	LOC100773367	100773367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100773368	100773368	7.21	6.39	5.27	2.74	3.75	3.92	80.51	80.52	69.56	30.13	49.68	45.80
dedicator of cytokinesis protein 1	LOC100773370	100773370	50.57	50.84	27.49	30.02	30.63	31.11	5104.10	5186.41	2856.80	3059.55	3122.55	3118.06
NACHT, LRR and PYD domains-containing protein 4E-like	LOC100773371	100773371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

RNA-binding protein 7 pseudogene	LOC100773372	100773372	0.10	0.19	0.09	0.08	0.07	0.10	1.52	2.75	1.24	1.16	1.03	0.93
interferon-induced protein with tetratricopeptide repeats 3-like	LOC100773381	100773381	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 8	LOC100773383	100773383	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	2.80
solute carrier family 22 member 9-like	LOC100773384	100773384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf171	LOC100773386	100773386	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	1.24	1.16	0.00	1.87
vomeronasal type-2 receptor 26-like	LOC100773387	100773387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100773390	100773390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 7 member 13-like	LOC100773391	100773391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 239-like	LOC100773393	100773393	0.06	0.00	0.00	0.00	0.03	0.00	1.52	2.75	0.00	3.48	1.03	0.00
proto-oncogene FRAT1-like	LOC100773398	100773398	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) polymerase beta-like	LOC100773400	100773400	0.07	0.08	0.00	0.00	0.00	0.00	3.80	4.58	0.00	0.00	0.00	0.00
40S ribosomal protein S18 pseudogene	LOC100773403	100773403	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10J1	LOC100773404	100773404	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
28S ribosomal protein S21, mitochondrial pseudogene	LOC100773408	100773408	0.29	0.00	0.00	0.51	0.42	0.00	0.76	0.00	0.00	1.16	1.03	0.00
long-chain-fatty-acid--CoA ligase ACSBG2-like	LOC100773414	100773414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.93
40S ribosomal protein S7 pseudogene	LOC100773415	100773415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger protein 883-like	LOC100773418	100773418	4.22	3.80	4.12	4.46	5.03	4.88	459.52	410.85	455.85	489.06	549.58	533.70
pancreatic beta cell growth factor	LOC100773429	100773429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sodium-dependent glucose transporter 1A-like	LOC100773431	100773431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor receptor superfamily member 26-like	LOC100773435	100773435	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 10G2	LOC100773439	100773439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
multidrug resistance-associated protein 9	LOC100773442	100773442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U5 small nuclear ribonucleoprotein 40 kDa protein pseudogene	LOC100773446	100773446	0.03	0.03	0.00	0.00	0.04	0.00	0.76	2.75	0.00	0.00	1.03	0.00
putative SMEK homolog 3	LOC100773454	100773454	0.00	0.01	0.00	0.02	0.02	0.00	0.00	0.92	0.00	2.32	1.03	0.00
gametogenetin-binding protein 1	LOC100773455	100773455	6.15	5.73	5.08	3.46	3.53	3.66	247.61	228.76	198.73	133.28	143.86	137.40
40S ribosomal protein S2 pseudogene	LOC100773456	100773456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf85	LOC100773457	100773457	30.95	29.45	29.99	31.92	34.68	31.60	581.81	565.49	556.45	593.37	639.62	603.80
protocadherin beta-6-like	LOC100773458	100773458	0.07	0.07	0.07	0.05	0.01	0.06	5.32	3.66	4.97	4.64	1.03	3.74
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100773459	100773459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 150-like	LOC100773460	100773460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kinase C-binding protein NELL2	LOC100773461	100773461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100773462	LOC100773462	100773462	1.35	1.08	1.53	0.80	1.38	1.07	66.08	49.41	59.62	40.56	63.13	54.21
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100773466	100773466	0.10	0.15	0.00	0.10	0.14	0.12	2.28	3.66	0.00	2.32	3.10	2.80
chromosome unknown open reading frame, human C9orf173	LOC100773470	100773470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 52N1	LOC100773472	100773472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L9 pseudogene	LOC100773473	100773473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sperm motility kinase	LOC100773477	100773477	0.00	0.03	0.00	0.00	0.07	0.10	0.00	0.92	0.00	0.00	2.07	2.80
olfactory receptor 10A3-like	LOC100773478	100773478	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF-like	LOC100773479	100773479	0.02	0.02	0.06	0.00	0.02	0.00	1.52	1.83	2.48	0.00	1.03	0.00
dimethylaniline monooxygenase [N-oxide-forming] 5-like	LOC100773480	100773480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4	LOC100773483	100773483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oligoribonuclease, mitochondrial-like	LOC100773485	100773485	8.32	9.54	7.09	5.25	7.65	7.36	104.06	141.83	93.16	53.31	107.64	72.90
serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform-like	LOC100773486	100773486	0.24	0.24	0.20	0.15	0.23	0.12	8.35	10.98	7.45	8.11	11.38	4.67
GRB2-associated-binding protein 2 pseudogene	LOC100773490	100773490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kazrin	LOC100773492	100773492	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100773501	100773501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100773502	LOC100773502	100773502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mesothelin-like protein	LOC100773505	100773505	0.55	0.44	0.70	0.51	0.47	0.58	68.36	67.71	93.16	74.17	67.27	79.45
SAP domain-containing ribonucleoprotein pseudogene	LOC100773509	100773509	0.34	0.15	0.14	0.26	0.23	0.21	6.08	2.75	2.48	4.64	3.10	4.67
peptidyl-prolyl cis-trans isomerase A-like	LOC100773511	100773511	606.10	684.34	562.06	372.67	280.00	263.16	7836.17	8762.36	7056.30	4044.63	2502.60	2704.00
serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform pseudogene	LOC100773514	100773514	0.19	0.15	0.00	0.00	0.09	0.00	9.11	7.32	0.00	1.16	6.21	2.80
60S ribosomal protein L13 pseudogene	LOC100773516	100773516	0.73	1.06	0.72	0.23	0.51	0.09	7.60	10.98	7.45	2.32	5.17	0.93
40S ribosomal protein S2 pseudogene	LOC100773517	100773517	1.40	1.20	1.08	0.82	1.32	0.58	17.47	15.56	14.91	12.75	19.66	6.54
ATP synthase F(0) complex subunit C1, mitochondrial-like	LOC100773518	100773518	0.13	0.15	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93

chromosome unknown open reading frame, human C5orf49	LOC100773519	100773519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 5AK3	LOC100773520	100773520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 14-like	LOC100773522	100773522	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin, mitochondrial	LOC100773523	100773523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase TRIM39	LOC100773524	100773524	4.05	3.80	5.28	4.93	4.69	4.90	180.77	154.64	229.79	172.68	167.67	200.95
CD209 antigen-like protein B	LOC100773525	100773525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L6 pseudogene	LOC100773529	100773529	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
NADH-cytochrome b5 reductase 3	LOC100773531	100773531	151.20	148.44	149.38	143.40	125.05	136.27	7097.89	6977.13	7068.72	6638.29	5785.57	6306.22
protein mago nashi homolog pseudogene	LOC100773532	100773532	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 104-like	LOC100773537	100773537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 258 pseudogene	LOC100773540	100773540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 5	LOC100773542	100773542	0.00	0.00	0.07	0.26	0.00	0.00	0.76	0.00	18.63	19.70	0.00	0.00
olfactory receptor 8G1	LOC100773543	100773543	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin regulatory light polypeptide 9	LOC100773545	100773545	369.45	378.20	393.42	403.16	456.40	446.69	8146.06	8249.94	8446.19	8179.66	8876.04	8784.96
heterogeneous nuclear ribonucleoprotein A1-like	LOC100773547	100773547	0.52	0.72	0.26	0.20	0.24	0.20	12.15	16.47	6.21	4.64	5.17	4.67
olfactory receptor 51M1	LOC100773549	100773549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 56B1-like	LOC100773551	100773551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome subunit alpha type-3 pseudogene	LOC100773552	100773552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

mothers against decapentaplegic homolog 1-like	LOC100773554	100773554	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 54-like	LOC100773555	100773555	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C4	LOC100773556	100773556	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100773559	100773559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region ABE-47N-like	LOC100773562	100773562	0.00	0.00	0.00	0.00	0.00	0.00						
zinc finger protein 345-like	LOC100773565	100773565	4.33	4.58	4.62	5.11	5.50	5.18	565.10	598.43	613.59	669.86	712.07	679.50
chromosome unknown open reading frame, human C1orf198	LOC100773569	100773569	10.10	9.77	10.31	10.17	9.10	9.29	876.51	850.07	912.93	885.41	790.73	808.49
chromosome unknown open reading frame, human C17orf62	LOC100773571	100773571	48.04	46.10	17.60	19.76	17.46	18.73	2950.81	2866.80	1112.91	1201.80	997.73	1103.84
pyruvate kinase PKM pseudogene	LOC100773573	100773573	2.75	2.70	2.05	1.32	2.03	1.36	86.59	81.44	62.10	39.40	63.13	42.06
solute carrier family 35 member E2	LOC100773575	100773575	13.38	13.63	17.38	18.83	18.28	17.81	1824.41	1869.41	2403.44	2551.94	2456.02	2424.53
olfactory receptor 508-like	LOC100773576	100773576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
major allergen I polypeptide chain 1-like	LOC100773579	100773579	0.28	0.17	0.00	0.00	0.00	0.00	2.28	2.75	2.48	2.32	0.00	0.93
GTPase ERas-like	LOC100773587	100773587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bile salt sulfotransferase 1-like	LOC100773588	100773588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ral guanine nucleotide dissociation stimulator-like	LOC100773590	100773590	0.00	0.05	0.00	0.00	0.00	0.00	0.00	2.75	1.24	2.32	0.00	0.00
olfactory receptor 6C2-like	LOC100773591	100773591	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 120-like	LOC100773598	100773598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative L-type amino acid transporter 1-like protein MLAS	LOC100773601	100773601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transcription factor AP-2 gamma-like	LOC100773609	100773609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal protein S6 kinase alpha-2	LOC100773612	100773612	17.48	16.87	19.52	18.45	17.17	18.90	2688.01	2628.89	3074.16	2860.21	2683.72	2931.12
cytochrome P450 4F4-like	LOC100773614	100773614	0.00	0.02	0.00	0.00	0.00	0.00	9.87	5.49	17.39	8.11	13.45	17.76
olfactory receptor 5D13-like	LOC100773615	100773615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat protein GNN-like	LOC100773619	100773619	0.47	0.38	0.22	0.39	0.45	0.41	52.41	43.01	26.08	40.56	49.68	58.88
retinol dehydrogenase 7-like	LOC100773622	100773622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100773623	100773623	1.76	1.64	1.68	1.13	1.40	1.18	37.22	34.77	32.29	18.54	27.94	26.17
cytochrome c, somatic	LOC100773626	100773626	18.96	15.65	15.84	12.04	13.12	13.75	126.84	140.00	114.27	101.98	127.30	114.03
epidermal growth factor-like protein 7	LOC100773628	100773628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methylcytosine dioxygenase TET2-like	LOC100773639	100773639	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
natural killer cells antigen CD94-like	LOC100773640	100773640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pro-neuregulin-1, membrane-bound isoform-like	LOC100773642	100773642	0.00	0.00	0.00	0.07	0.00	0.06	1.52	0.00	0.00	1.16	0.00	1.87
protein RoBo-1-like	LOC100773648	100773648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100773649	100773649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L19-like	LOC100773650	100773650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal-regulatory protein beta-1 isoform 3	LOC100773652	100773652	0.08	0.02	0.07	0.00	0.00	0.00	12.15	6.41	6.21	5.79	2.07	0.00
olfactory receptor 143	LOC100773653	100773653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1-like	LOC100773658	100773658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

speckle-type POZ protein pseudogene	LOC100773661	100773661	0.03	0.03	0.02	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
NACHT, LRR and PYD domains-containing protein 4C-like	LOC100773662	100773662	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 4 regulatory subunit 1-like	LOC100773668	100773668	20.69	20.34	17.94	16.35	17.32	18.55	2658.39	2599.61	2328.91	2091.85	2242.82	2413.32
putative olfactory receptor 56B2	LOC100773670	100773670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100773672	LOC100773672	100773672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable phospholipid-transporting ATPase IIA	LOC100773673	100773673	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L11 pseudogene	LOC100773680	100773680	0.23	0.16	0.22	0.10	0.09	0.00	2.28	1.83	2.48	1.16	1.03	0.00
39S ribosomal protein L15, mitochondrial pseudogene	LOC100773681	100773681	0.00	0.05	0.06	0.00	0.00	0.05	0.00	0.92	1.24	0.00	0.00	0.93
olfactory receptor 8B3-like	LOC100773683	100773683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin SEH1-like	LOC100773686	100773686	0.01	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor 1 homolog pseudogene	LOC100773689	100773689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10J1	LOC100773694	100773694	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
gap junction epsilon-1 protein	LOC100773699	100773699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease P protein subunit p30 pseudogene	LOC100773705	100773705	0.08	0.05	0.07	0.06	0.00	0.21	1.52	0.92	1.24	1.16	0.00	3.74
zinc finger protein 501-like	LOC100773708	100773708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L10a pseudogene	LOC100773710	100773710	99.46	102.75	106.78	44.37	23.45	23.76	1686.94	1770.59	1825.87	750.98	406.75	390.69
transmembrane and coiled-coil domain-containing protein 5B-like	LOC100773713	100773713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUN14 domain-containing protein 1 pseudogene	LOC100773716	100773716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

coiled-coil domain-containing protein 94 pseudogene	LOC100773717	100773717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLV-related proviral Env polyprotein-like	LOC100773718	100773718	56.89	61.65	85.17	89.71	100.52	94.31	3526.54	3806.54	5368.30	5662.48	6217.16	5956.65
regenerating islet-derived protein 3-beta-like	LOC100773719	100773719	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-coenzyme A thioesterase 1-like	LOC100773723	100773723	3.98	4.27	3.28	3.87	3.53	3.28	120.01	151.90	129.18	140.23	129.37	115.90
tumor necrosis factor receptor superfamily member 22-like	LOC100773725	100773725	5.54	4.95	4.12	4.06	5.10	4.57	239.25	226.01	188.80	185.43	231.84	200.95
olfactory receptor 10G3	LOC100773730	100773730	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100773736	100773736	0.00	0.04	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
protein-tyrosine sulfotransferase 2 pseudogene	LOC100773743	100773743	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C9orf57	LOC100773746	100773746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin beta-14	LOC100773747	100773747	0.07	0.02	0.07	0.02	0.05	0.01	3.04	0.92	3.73	1.16	3.10	0.00
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC100773748	100773748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Willebrand factor A domain-containing protein 5A-like	LOC100773749	100773749	0.21	0.23	0.20	0.17	0.28	0.26	9.11	12.81	1.24	6.95	8.28	6.54
uncharacterized LOC100773750	LOC100773750	100773750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC100773758	100773758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52E8-like	LOC100773762	100773762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acrosomal protein SP-10	LOC100773769	100773769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100773771	LOC100773771	100773771	0.59	0.60	0.00	0.00	0.14	0.00	4.56	5.49	0.00	0.00	1.03	0.00
vomeronasal type-1 receptor 1-like	LOC100773773	100773773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC100773778	LOC100773778	100773778	2.58	2.55	4.03	2.68	2.87	3.06	72.92	73.20	100.61	79.97	87.97	88.79
prefoldin subunit 4	LOC100773780	100773780	1.85	4.61	2.71	2.63	4.72	1.79	16.71	40.26	14.91	20.86	35.19	13.09
acidic leucine-rich nuclear phosphoprotein 32 family member A pseudogene	LOC100773781	100773781	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100773783	LOC100773783	100773783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C17orf99	LOC100773785	100773785	0.04	0.00	0.00	0.00	0.00	0.05	1.52	0.92	0.00	1.16	1.03	1.87
sperm motility kinase X-like	LOC100773788	100773788	0.17	0.14	0.25	0.40	0.23	0.09	2.28	0.92	2.48	4.64	2.07	0.00
GTPase ERas-like	LOC100773790	100773790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase makorin-1	LOC100773800	100773800	33.28	34.23	38.85	33.46	32.43	35.28	723.08	784.18	853.31	763.73	749.33	805.69
leydig cell tumor 10 kDa protein pseudogene	LOC100773801	100773801	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 1052-like	LOC100773809	100773809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative olfactory receptor 5AK3	LOC100773812	100773812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 878-like	LOC100773813	100773813	1.51	1.50	1.43	1.48	1.42	1.45	173.93	179.35	168.92	173.84	172.84	184.13
enhancer of rudimentary homolog pseudogene	LOC100773816	100773816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CD209 antigen-like protein C	LOC100773817	100773817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal RNA-processing protein 7 homolog A	LOC100773822	100773822	28.98	30.74	41.87	43.71	40.03	40.45	533.20	554.51	752.70	727.80	683.09	726.24
ferritin heavy chain pseudogene	LOC100773823	100773823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box transcription factor TBX5 pseudogene	LOC100773828	100773828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100773829	100773829	15.53	14.43	6.43	6.77	8.05	8.08	1143.87	1076.08	476.96	504.13	596.15	599.12

GRB2-associated-binding protein 2 pseudogene	LOC100773830	100773830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 8D1	LOC100773833	100773833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin regulatory light chain 12B	LOC100773835	100773835	459.67	482.59	426.63	440.39	461.77	463.20	8891.17	9304.06	8215.16	8309.46	8732.18	8873.75
olfactory receptor 51Q1-like	LOC100773838	100773838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12 pseudogene	LOC100773839	100773839	0.04	0.05	0.00	0.00	0.05	0.05	3.04	1.83	0.00	1.16	2.07	0.93
chromobox protein homolog 3 pseudogene	LOC100773841	100773841	0.62	0.60	0.46	0.82	0.82	0.57	6.84	2.75	2.48	10.43	5.17	3.74
NUT family member Gm806-like	LOC100773844	100773844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase X-like	LOC100773845	100773845	0.29	0.37	0.28	0.26	0.47	0.36	16.71	23.79	21.12	19.70	28.98	26.17
zinc finger protein 431-like	LOC100773846	100773846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C20orf196	LOC100773847	100773847	2.16	2.49	2.77	2.40	2.71	2.78	148.87	172.94	187.56	161.09	180.09	192.54
prefoldin subunit 1 pseudogene	LOC100773849	100773849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100773850	100773850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100773851	100773851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA-binding protein 42 pseudogene	LOC100773855	100773855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
SAP domain-containing ribonucleoprotein pseudogene	LOC100773856	100773856	0.06	0.20	0.27	0.00	0.23	0.03	0.76	2.75	3.73	0.00	3.10	0.00
charged multivesicular body protein 5 pseudogene	LOC100773861	100773861	0.00	0.19	0.09	0.00	0.14	0.00	0.00	4.58	1.24	0.00	2.07	0.00
E3 ubiquitin-protein ligase TRIM32-like	LOC100773862	100773862	0.25	0.18	0.20	0.17	0.23	0.15	0.76	2.75	1.24	0.00	2.07	0.00
cyclin-dependent kinase 11B-like	LOC100773864	100773864	28.62	27.30	27.46	31.06	28.18	28.62	525.60	534.38	494.35	659.43	570.28	593.52

transmembrane protein 11, mitochondrial-like	LOC100773867	100773867	0.10	0.08	0.11	0.05	0.09	0.04	0.76	2.75	1.24	0.00	1.03	0.00
androgen-binding protein homolog	LOC100773868	100773868	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
cytochrome b-c1 complex subunit 7 pseudogene	LOC100773874	100773874	0.00	0.44	0.00	0.00	0.26	0.00	0.00	1.83	0.00	0.00	1.03	0.00
vomeronasal type-1 receptor 4-like	LOC100773876	100773876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein with KRAB and SCAN domains 2-like	LOC100773877	100773877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 28-like	LOC100773879	100773879	0.00	0.00	0.04	0.00	0.03	0.01	0.00	0.00	0.00	0.00	2.07	0.00
V-type proton ATPase subunit G 1 pseudogene	LOC100773880	100773880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
POU domain, class 5, transcription factor 1 pseudogene	LOC100773883	100773883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 103-like	LOC100773884	100773884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SLAIN motif-containing protein 2 pseudogene	LOC100773885	100773885	0.20	0.31	0.14	0.02	0.21	0.25	6.84	10.07	4.97	0.00	7.24	8.41
histone H2B type 2-E-like	LOC100773886	100773886	0.53	0.36	0.23	0.15	0.12	0.11	1.52	0.92	1.24	1.16	2.07	1.87
hypothetical protein	LOC100773888	100773888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
translational activator of cytochrome c oxidase 1	LOC100773890	100773890	14.46	13.61	14.76	13.55	15.60	15.87	642.57	611.24	670.73	614.23	698.62	702.87
peroxiredoxin-2 pseudogene	LOC100773891	100773891	0.50	0.38	0.62	0.74	0.09	0.63	6.08	4.58	7.45	8.11	1.03	7.48
mRNA-capping enzyme pseudogene	LOC100773893	100773893	0.77	0.71	0.48	0.36	0.62	0.45	35.70	39.35	26.08	19.70	27.94	21.50
transcription factor Sp3 pseudogene	LOC100773894	100773894	1.57	1.49	1.61	1.40	1.73	1.50	14.43	11.90	13.66	8.11	10.35	6.54
olfactory receptor 5D13-like	LOC100773899	100773899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADNP homeobox protein 2-like	LOC100773903	100773903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

protein transport protein Sec61 subunit beta pseudogene	LOC100773904	100773904	1.05	1.37	1.32	0.60	1.11	0.91	9.11	13.73	13.66	4.64	9.31	7.48
retinol dehydrogenase 7-like	LOC100773906	100773906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
meteorin pseudogene	LOC100773913	100773913	0.00	0.00	0.00	0.00	0.00	0.00	4.56	4.58	7.45	2.32	8.28	6.54
cAMP-regulated phosphoprotein 19-like	LOC100773916	100773916	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100773917	LOC100773917	100773917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AC1-like	LOC100773923	100773923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosome biogenesis regulatory protein homolog	LOC100773924	100773924	0.42	0.46	0.38	0.08	0.07	0.10	4.56	9.15	4.97	0.00	2.07	0.00
iron-sulfur cluster assembly 1 homolog, mitochondrial pseudogene	LOC100773925	100773925	1.06	1.28	0.97	0.69	0.75	0.95	7.60	10.98	7.45	4.64	4.14	6.54
NKG2-D type II integral membrane protein	LOC100773926	100773926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor E4F1-like	LOC100773928	100773928	7.02	6.81	7.62	6.78	5.87	5.77	135.96	148.24	156.50	140.23	123.16	106.55
tudor and KH domain-containing protein pseudogene	LOC100773933	100773933	0.00	0.00	0.04	0.00	0.05	0.09	0.00	0.00	1.24	0.00	1.03	0.93
60S ribosomal protein L3 pseudogene	LOC100773937	100773937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L35 pseudogene	LOC100773938	100773938	2.88	4.94	4.72	4.61	4.36	3.03	27.34	51.24	59.62	37.09	42.43	38.32
disintegrin and metalloproteinase domain-containing protein 26A-like	LOC100773939	100773939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low-density lipoprotein receptor-related protein 1B	LOC100773941	100773941	0.62	0.73	0.60	0.87	2.38	0.96	27.34	30.20	27.33	39.40	57.96	50.47
olfactory receptor 143-like	LOC100773942	100773942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf39	LOC100773943	100773943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC100773945	LOC100773945	100773945	6.97	7.07	9.10	9.58	9.20	8.82	665.36	688.11	763.88	791.54	738.98	743.06

keratin-associated protein 13-1	LOC100773948	100773948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100773951	100773951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LYR motif-containing protein 4 pseudogene	LOC100773960	100773960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52N4	LOC100773961	100773961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC100773962	100773962	0.10	0.15	0.49	0.05	0.20	0.12	0.76	0.92	1.24	2.32	2.07	2.80
S-adenosylmethionine decarboxylase proenzyme-like	LOC100773963	100773963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
TP53-regulated inhibitor of apoptosis 1 pseudogene	LOC100773965	100773965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 2A catalytic subunit beta isoform pseudogene	LOC100773967	100773967	10.57	10.06	9.42	9.66	10.03	9.36	9.11	7.32	1.24	4.64	3.10	2.80
poly(rC)-binding protein 2-like	LOC100773972	100773972	3.76	5.04	3.58	3.68	3.71	1.78	57.72	102.48	60.86	73.01	77.62	59.82
uncharacterized LOC100773973	LOC100773973	100773973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L11-like	LOC100773976	100773976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
ADP-ribosylation factor-like protein 5A pseudogene	LOC100773982	100773982	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	1.24	0.00	1.03	0.00
high mobility group protein B1-like	LOC100773985	100773985	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC100773990	100773990	0.06	0.04	0.00	0.09	0.04	0.00	0.76	0.00	0.00	1.16	1.03	0.00
uncharacterized LOC100773992	LOC100773992	100773992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC100774002	100774002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanylate-binding protein 6-like	LOC100774003	100774003	0.07	0.07	0.11	0.14	0.11	0.09	5.32	5.49	7.45	10.43	10.35	9.35
chromosome unknown open reading frame, human C9orf91	LOC100774007	100774007	23.05	21.48	25.99	25.46	21.57	23.04	2088.73	1998.43	2418.34	2343.34	1963.37	2102.07

olfactory receptor 4F3/4F16/4F29-like	LOC100774008	100774008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B	LOC100774011	100774011	2.23	2.39	2.02	2.34	2.36	2.11	116.97	122.61	113.03	133.28	137.65	123.38
60S ribosomal protein L5-like	LOC100774012	100774012	0.94	1.06	0.88	0.39	0.84	0.49	17.47	19.22	16.15	5.79	15.52	9.35
pleckstrin homology domain-containing family B member 1 pseudogene	LOC100774013	100774013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
acyl-coenzyme A thioesterase 6	LOC100774016	100774016	0.06	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acidic leucine-rich nuclear phosphoprotein 32 family member A pseudogene	LOC100774019	100774019	0.09	0.06	0.00	0.22	0.32	0.06	1.52	0.92	0.00	3.48	5.17	0.93
cell division cycle 5-like protein pseudogene	LOC100774021	100774021	0.25	0.28	0.18	0.17	0.23	0.18	24.31	24.71	19.87	23.18	22.77	14.95
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100774027	100774027	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100774030	100774030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen 10-like	LOC100774032	100774032	0.02	0.00	0.07	0.00	0.04	0.04	0.76	0.00	3.73	0.00	2.07	1.87
nascent polypeptide-associated complex subunit alpha pseudogene	LOC100774036	100774036	0.72	0.40	0.20	0.38	0.33	0.08	9.11	4.58	2.48	4.64	4.14	0.93
DDB1- and CUL4-associated factor 8	LOC100774037	100774037	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	1.24	2.32	0.00	0.00
protocadherin beta-7-like	LOC100774043	100774043	0.12	0.11	0.11	0.02	0.03	0.06	5.32	5.49	4.97	2.32	2.07	3.74
heat shock protein HSP 90-alpha pseudogene	LOC100774044	100774044	0.25	0.40	0.22	0.18	0.15	0.17	10.63	21.05	11.18	9.27	6.21	8.41
von Willebrand factor A domain-containing protein 5A-like	LOC100774045	100774045	0.31	0.44	0.29	0.33	0.45	0.45	5.32	9.15	6.21	9.27	7.24	12.15
transmembrane protein 117	LOC100774046	100774046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAPK-interacting and spindle-stabilizing protein-like pseudogene	LOC100774053	100774053	6.54	5.74	7.98	7.22	6.98	6.96	319.01	282.75	394.98	367.38	345.69	347.70
cytoskeleton-associated protein 2 pseudogene	LOC100774054	100774054	0.97	1.14	0.85	0.83	1.25	0.75	40.26	50.33	39.75	34.77	53.82	31.78

zinc finger protein 709-like	LOC100774062	100774062	0.25	0.30	0.00	0.20	0.00	0.00	11.39	9.15	12.42	10.43	15.52	7.48
Ig lambda chain V-VI region EB4-like	LOC100774063	100774063	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L5 pseudogene	LOC100774065	100774065	0.12	0.19	0.13	0.18	0.27	0.19	5.32	6.41	7.45	6.95	6.21	8.41
Ig lambda chain V-VI region AR-like	LOC100774075	100774075	0.00	0.00	0.00	0.00	0.00	0.00						
kelch-like protein 5	LOC100774077	100774077	34.02	35.10	32.38	33.17	32.58	32.34	1530.47	1609.54	1520.31	1534.41	1520.39	1534.73
chromosome unknown open reading frame, human C11orf57	LOC100774078	100774078	20.40	21.59	19.62	20.62	23.12	22.59	1907.20	2002.09	1842.01	1904.11	2094.81	2084.31
chromosome unknown open reading frame, human C12orf42	LOC100774085	100774085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC100774086	100774086	0.29	0.37	0.17	0.09	0.13	0.20	3.04	6.41	7.45	0.00	1.03	3.74
40S ribosomal protein S12 pseudogene	LOC100774088	100774088	0.12	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
chromosome unknown open reading frame, human C2orf47	LOC100774093	100774093	10.49	11.51	12.79	11.86	13.80	13.80	330.40	362.35	422.31	383.60	431.59	428.08
tRNA-dihydrouridine(47) synthase [NAD(P)(+)]-like pseudogene	LOC100774103	100774103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	2.32	0.00	0.00
olfactory receptor 1052-like	LOC100774104	100774104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 58-like	LOC100774106	100774106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.93
olfactory receptor 998	LOC100774107	100774107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin-like protein 4A	LOC100774108	100774108	0.00	0.06	0.08	0.00	0.03	0.00	0.00	0.92	1.24	0.00	0.00	0.00
histone lysine demethylase PHF8 pseudogene	LOC100774109	100774109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 12D3	LOC100774112	100774112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
snRNA-activating protein complex subunit 5 pseudogene	LOC100774115	100774115	1.54	1.33	1.40	1.49	1.36	2.06	24.31	23.79	23.60	18.54	21.73	31.78

coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC100774118	100774118	2.63	2.20	3.13	0.84	2.19	0.79	37.22	31.11	36.02	12.75	24.84	9.35
taste receptor type 2 member 105-like	LOC100774123	100774123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate dehydrogenase E1 component subunit beta, mitochondrial pseudogene	LOC100774125	100774125	0.21	0.26	0.48	0.29	0.22	0.03	8.35	18.30	16.15	11.59	14.49	6.54
platelet-activating factor acetylhydrolase IB subunit beta	LOC100774126	100774126	137.17	139.12	133.64	135.84	138.37	137.48	5440.58	5357.52	5458.97	5645.10	5888.04	5899.64
olfactory receptor 8D1	LOC100774129	100774129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52D1	LOC100774133	100774133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 8-like	LOC100774134	100774134	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.93
splicing factor 45 pseudogene	LOC100774135	100774135	0.03	0.00	0.00	0.00	0.00	0.03	0.76	0.00	0.00	0.00	0.00	0.93
olfactory receptor 52D1-like	LOC100774136	100774136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C75-like	LOC100774141	100774141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein M pseudogene	LOC100774142	100774142	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100774145	100774145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100774146	100774146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine N-acyltransferase-like protein Keg1	LOC100774147	100774147	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.03	0.00
olfactory receptor 507-like	LOC100774152	100774152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTP-binding nuclear protein Ran-like	LOC100774156	100774156	1.52	2.04	1.26	1.44	0.79	1.05	28.10	35.69	23.60	24.34	12.42	17.76
cell cycle checkpoint protein RAD17-like	LOC100774157	100774157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100774162	100774162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

voltage-dependent anion-selective channel protein 2 pseudogene	LOC100774165	100774165	1.48	2.14	0.66	1.10	1.27	0.88	22.03	30.20	9.94	16.22	17.59	12.15
endoplasmic reticulum-Golgi intermediate compartment protein 2-like	LOC100774169	100774169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 17-like protein E pseudogene	LOC100774170	100774170	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100774171	100774171	0.45	0.46	0.00	0.00	0.17	0.08	4.56	2.75	0.00	0.00	2.07	1.87
heat shock protein HSP 90-beta-like	LOC100774172	100774172	226.68	263.71	265.99	241.80	259.38	257.73	5487.67	6457.39	6532.13	5911.65	6258.56	6282.85
interferon-induced protein with tetratricopeptide repeats 1-like	LOC100774174	100774174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ragulator complex protein LAMTOR2 pseudogene	LOC100774177	100774177	0.09	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	1.03	0.00
chromosome unknown open reading frame, human C2orf43	LOC100774181	100774181	19.60	19.73	18.36	18.78	22.10	21.46	1212.98	1243.53	1177.50	1184.42	1380.67	1358.08
histone H4	LOC100774182	100774182	0.00	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
coiled-coil domain-containing protein 94 pseudogene	LOC100774185	100774185	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.93
40S ribosomal protein S19 pseudogene	LOC100774189	100774189	34.86	47.38	44.00	38.20	44.71	31.16	1541.86	1662.62	1664.40	1556.43	1317.54	1375.83
olfactory receptor 5W2-like	LOC100774196	100774196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleolar RNA helicase 2 pseudogene	LOC100774208	100774208	0.53	0.42	0.37	0.22	0.35	0.46	20.51	14.64	9.94	6.95	12.42	22.43
trafficking protein particle complex subunit 6B pseudogene	LOC100774211	100774211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100774212	LOC100774212	100774212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AC1-like	LOC100774217	100774217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methylcytosine dioxygenase TET2-like	LOC100774218	100774218	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100774220	LOC100774220	100774220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

myosin-binding protein C, fast-type	LOC100774229	100774229	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.00
olfactory receptor 2W3-like	LOC100774230	100774230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100774232	100774232	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	2.48	1.16	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 26A-like	LOC100774233	100774233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 145-like	LOC100774236	100774236	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-beta pseudogene	LOC100774238	100774238	0.83	0.74	0.75	0.39	0.37	0.59	100.26	66.80	65.83	39.40	36.22	63.56
keratin-associated protein 13-1-like	LOC100774242	100774242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glypican-4 pseudogene	LOC100774245	100774245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC100774246	100774246	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 17-like protein A pseudogene	LOC100774255	100774255	0.17	0.14	0.00	0.03	0.05	0.10	3.80	3.66	0.00	1.16	1.03	2.80
UBX domain-containing protein 2A-like	LOC100774257	100774257	0.26	0.00	0.00	0.13	0.00	0.00	4.56	0.00	0.00	1.16	0.00	0.00
sodium-dependent dopamine transporter	LOC100774258	100774258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein 37A-like	LOC100774265	100774265	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
probable palmitoyltransferase ZDHHC12	LOC100774268	100774268	0.08	0.02	0.07	0.00	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC100774275	100774275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6Y1	LOC100774276	100774276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LOC100774280	100774280	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
dihydrolipoyl dehydrogenase, mitochondrial-like	LOC100774281	100774281	0.49	0.59	0.31	0.42	0.51	0.32	31.14	37.52	18.63	28.97	34.15	23.37

immunoglobulin-binding protein 1b	LOC100774285	100774285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-like	LOC100774293	100774293	0.00	0.11	0.00	0.00	0.13	0.00	0.76	3.66	0.00	1.16	2.07	0.00
small nuclear ribonucleoprotein E pseudogene	LOC100774294	100774294	0.26	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family G member 3-like	LOC100774296	100774296	0.05	0.05	0.04	0.08	0.24	0.16	3.04	3.66	6.21	6.95	19.66	15.89
arylacetamide deacetylase-like 2	LOC100774297	100774297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
palmitoyltransferase ZDHHC3 pseudogene	LOC100774300	100774300	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
60S ribosomal protein L4 pseudogene	LOC100774305	100774305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4F1	LOC100774306	100774306	0.00	0.00	0.00	0.04	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
acyl-protein thioesterase 1-like	LOC100774310	100774310	0.35	0.20	0.32	0.29	0.35	0.31	0.00	0.00	0.00	0.00	0.00	0.00
actin-like	LOC100774311	100774311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 SUMO-protein ligase NSE2-like	LOC100774320	100774320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100774321	100774321	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GTPase ERas-like	LOC100774323	100774323	0.04	0.02	0.00	0.03	0.03	0.05	1.52	0.92	0.00	2.32	1.03	2.80
vomeronasal type-1 receptor 4-like	LOC100774324	100774324	0.02	0.03	0.04	0.00	0.00	0.00	1.52	0.92	1.24	0.00	1.03	0.00
small ubiquitin-related modifier 1 pseudogene	LOC100774326	100774326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit L pseudogene	LOC100774328	100774328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B18-like	LOC100774329	100774329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
renalase-like	LOC100774332	100774332	7.05	6.60	4.48	5.08	5.05	5.22	165.58	161.05	109.30	117.05	114.88	124.31

glycosyltransferase 54 domain-containing protein	LOC100774333	100774333	0.01	0.00	0.00	0.02	0.00	0.00	1.52	0.92	0.00	2.32	4.14	0.00
protocadherin beta-13-like	LOC100774334	100774334	0.06	0.06	0.05	0.04	0.01	0.09	6.84	7.32	4.97	5.79	2.07	10.28
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100774335	100774335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Willebrand factor A domain-containing protein 5A-like	LOC100774336	100774336	17.49	18.88	17.82	18.61	27.60	26.49	1460.59	1565.62	1484.29	1573.81	2288.35	2183.39
thymosin beta-4	LOC100774337	100774337	2511.01	2248.57	2776.19	2747.16	2890.79	3530.80	4447.86	4287.85	5041.63	4503.56	4870.65	5216.39
thyroid transcription factor 1-like	LOC100774339	100774339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform	LOC100774343	100774343	34.55	35.98	39.50	40.77	38.57	37.47	1604.91	1651.64	1815.93	1857.75	1763.62	1737.55
40S ribosomal protein S16 pseudogene	LOC100774347	100774347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3-like	LOC100774351	100774351	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
acrosomal protein SP-10-like	LOC100774354	100774354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D3 pseudogene	LOC100774355	100774355	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
keratin, type II cuticular Hb3	LOC100774366	100774366	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
mothers against decapentaplegic homolog 1-like	LOC100774368	100774368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type I cytoskeletal 39	LOC100774371	100774371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-lactate dehydrogenase A chain pseudogene	LOC100774386	100774386	0.79	0.85	0.79	0.59	0.66	0.22	22.79	29.28	28.57	17.38	21.73	8.41
40S ribosomal protein S15 pseudogene	LOC100774389	100774389	0.20	0.25	0.00	0.00	0.14	0.00	2.28	3.66	0.00	0.00	1.03	0.00
probable phospholipid-transporting ATPase FetA	LOC100774392	100774392	0.02	0.02	0.01	0.00	0.01	0.00	11.39	9.15	12.42	8.11	19.66	14.95
long-chain-fatty-acid--CoA ligase 5 pseudogene	LOC100774393	100774393	1.06	1.46	1.14	0.93	1.44	0.99	48.61	60.39	45.96	38.24	58.99	38.32

zinc finger protein 58-like	LOC100774396	100774396	5.14	5.02	6.84	6.89	7.56	6.93	214.19	211.37	296.86	302.48	321.88	309.38
olfactory receptor 998	LOC100774397	100774397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-alpha-acetyltransferase 11-like	LOC100774398	100774398	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
olfactory receptor 18-like	LOC100774399	100774399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf30	LOC100774400	100774400	11.18	10.53	8.75	9.99	9.65	9.40	1837.33	1747.71	1479.33	1682.75	1621.82	1525.38
saoe class I histocompatibility antigen, A alpha chain-like	LOC100774402	100774402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2D20-like	LOC100774408	100774408	0.02	0.02	0.00	0.00	0.01	0.00	0.00	0.00	2.48	0.00	1.03	0.93
HLA class II histocompatibility antigen, DR beta 4 chain-like	LOC100774413	100774413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S9 pseudogene	LOC100774414	100774414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 149-like	LOC100774418	100774418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin D2 receptor-like	LOC100774419	100774419	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate kinase PKM pseudogene	LOC100774420	100774420	8.98	8.90	6.08	4.74	5.96	4.41	288.62	267.19	175.13	140.23	168.70	134.59
disks large homolog 5-like	LOC100774421	100774421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C3orf20	LOC100774427	100774427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6C75-like	LOC100774428	100774428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC100774431	100774431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine N-acyltransferase-like protein Keg1	LOC100774433	100774433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100774434	LOC100774434	100774434	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ATP synthase subunit e, mitochondrial-like	LOC100774437	100774437	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
olfactory receptor 491-like	LOC100774439	100774439	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
claudin-7 pseudogene	LOC100774443	100774443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100774449	100774449	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tyrosine-protein kinase SgK223	LOC100774451	100774451	6.64	6.78	5.69	4.35	2.71	3.19	911.45	934.25	803.63	601.48	381.91	447.71
transmembrane protein 126A pseudogene	LOC100774453	100774453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative ankyrin repeat domain-containing protein 19	LOC100774454	100774454	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PR domain zinc finger protein 4 pseudogene	LOC100774456	100774456	0.13	0.09	0.08	0.05	0.10	0.09	6.08	4.58	2.48	1.16	3.10	2.80
chromatin target of PRMT1 protein pseudogene	LOC100774457	100774457	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	0.00	2.32	1.03	0.93
activator of 90 kDa heat shock protein ATPase homolog 2	LOC100774458	100774458	15.92	17.19	17.71	17.09	19.46	18.02	15.19	8.24	13.66	6.95	10.35	10.28
40S ribosomal protein S28 pseudogene	LOC100774459	100774459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51F1-like	LOC100774460	100774460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC100774462	100774462	1.04	1.34	0.88	0.43	1.12	0.64	12.91	14.64	11.18	3.48	12.42	7.48
uncharacterized LOC100774463	LOC100774463	100774463	0.30	0.16	0.28	0.06	0.08	0.26	8.35	5.49	7.45	2.32	2.07	8.41
oligosaccharyltransferase complex subunit OSTC pseudogene	LOC100774464	100774464	0.00	0.07	0.10	0.00	0.00	0.08	0.00	0.92	1.24	0.00	0.00	0.93
bifunctional lysine-specific demethylase and histidyl-hydroxylase MINA-like	LOC100774465	100774465	3.40	4.02	4.17	3.82	3.69	3.44	107.10	119.87	126.69	117.05	111.78	111.23
histone H1.3	LOC100774468	100774468	0.25	0.52	0.00	0.00	0.01	0.00	5.32	9.15	0.00	0.00	0.00	0.00
UPF0556 protein C19orf10 homolog pseudogene	LOC100774469	100774469	0.00	0.21	0.11	0.03	0.06	0.11	0.00	3.66	1.24	0.00	0.00	1.87

bromodomain-containing protein 8-like	LOC100774470	100774470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
chromosome unknown open reading frame, human C19orf55	LOC100774481	100774481	1.82	1.63	2.24	2.09	1.61	1.94	79.75	69.54	88.19	75.33	66.24	75.71
60S ribosomal protein L28 pseudogene	LOC100774483	100774483	0.21	0.26	0.00	0.23	0.10	0.00	94.94	89.67	88.19	47.52	64.17	46.73
solute carrier family 22 member 13-like	LOC100774484	100774484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inactive tyrosine-protein kinase 7	LOC100774485	100774485	0.08	0.06	0.03	0.04	0.01	0.01	6.84	6.41	2.48	3.48	2.07	0.93
calcitonin gene-related peptide 2-like	LOC100774487	100774487	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mRNA turnover protein 4 homolog pseudogene	LOC100774491	100774491	6.51	5.98	6.45	7.72	2.23	4.39	56.21	51.24	54.65	64.90	18.63	35.52
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2 pseudogene	LOC100774492	100774492	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100774493	LOC100774493	100774493	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
creatine kinase B-type pseudogene	LOC100774496	100774496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100774497	LOC100774497	100774497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AC1	LOC100774501	100774501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
up-regulator of cell proliferation-like	LOC100774502	100774502	0.72	0.62	0.85	0.83	0.73	0.93	2.28	3.66	1.24	1.16	2.07	1.87
natural killer cells antigen CD94-like	LOC100774504	100774504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf35	LOC100774508	100774508	0.04	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	1.16	0.00	0.93
histone deacetylase 1 pseudogene	LOC100774510	100774510	0.33	0.44	0.60	0.32	0.24	0.26	5.32	7.32	12.42	4.64	5.17	4.67
adenylate kinase 4, mitochondrial	LOC100774512	100774512	0.60	0.64	0.69	0.87	0.99	1.03	34.18	33.86	44.72	47.52	54.85	58.88
T-complex protein 1 subunit zeta pseudogene	LOC100774514	100774514	1.87	2.21	1.58	0.96	1.48	1.04	63.04	64.05	54.65	32.45	51.75	28.97

chromosome unknown open reading frame, human C17orf50	LOC100774515	100774515	0.62	0.94	0.53	0.45	0.54	0.52	34.94	46.67	23.60	17.38	21.73	26.17
olfactory receptor 2W3-like	LOC100774516	100774516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 2C26-like	LOC100774517	100774517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 26A-like	LOC100774518	100774518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 143-like	LOC100774521	100774521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b5	LOC100774522	100774522	71.51	68.38	68.64	67.09	86.42	85.82	1490.22	1427.45	1406.04	1369.84	1765.69	1744.09
keratin-associated protein 13-1	LOC100774525	100774525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein pseudogene	LOC100774529	100774529	0.06	0.03	0.02	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC100774532	100774532	0.04	0.00	0.06	0.00	0.00	0.00	1.52	1.83	3.73	4.64	5.17	1.87
mediator of RNA polymerase II transcription subunit 30 pseudogene	LOC100774534	100774534	1.49	1.54	1.75	1.08	1.51	1.40	18.99	20.13	24.84	13.91	21.73	18.69
heterogeneous nuclear ribonucleoprotein H-like	LOC100774536	100774536	2.14	2.60	1.25	0.96	1.66	1.25	78.23	96.08	48.44	31.29	42.43	23.37
putative olfactory receptor 56B2	LOC100774538	100774538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tropomyosin alpha-3 chain pseudogene	LOC100774544	100774544	0.07	0.08	0.07	0.03	0.28	0.03	1.52	0.92	1.24	0.00	4.14	0.00
high affinity immunoglobulin gamma Fc receptor I-like	LOC100774550	100774550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC100774551	100774551	0.07	0.00	0.00	0.11	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
transmembrane protein 258	LOC100774554	100774554	284.81	217.83	229.31	214.06	213.93	252.88	1691.49	1619.61	1674.33	1424.31	1250.26	1420.70
chromosome unknown open reading frame, human C20orf194	LOC100774555	100774555	7.16	7.18	10.17	10.39	12.36	13.05	1458.32	1479.61	2081.74	2106.92	2482.93	2625.49
non-histone chromosomal protein HMG-14 pseudogene	LOC100774556	100774556	0.53	0.00	0.21	0.20	0.17	0.05	4.56	1.83	2.48	0.00	3.10	1.87

zinc finger protein 426-like	LOC100774561	100774561	5.08	5.09	6.75	8.21	9.16	8.21	302.30	308.37	427.28	498.34	551.65	526.22
olfactory receptor 6P1	LOC100774562	100774562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 10J1	LOC100774566	100774566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37 pseudogene	LOC100774572	100774572	0.99	1.01	0.72	0.45	1.41	0.58	1.52	0.92	0.00	0.00	1.03	0.93
adenylate kinase isoenzyme 1	LOC100774576	100774576	1.25	1.50	1.63	1.04	1.30	1.51	41.02	45.75	50.93	33.61	40.36	48.60
ATP-binding cassette sub-family G member 3-like	LOC100774582	100774582	0.01	0.01	0.03	0.00	0.04	0.03	0.00	0.00	1.24	0.00	2.07	0.93
olfactory receptor 4F6-like	LOC100774586	100774586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 39	LOC100774590	100774590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100774593	100774593	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome P450 4F6	LOC100774594	100774594	1.02	1.21	0.94	1.12	0.66	0.79	88.11	105.23	95.64	85.76	67.27	71.03
L-lactate dehydrogenase A chain pseudogene	LOC100774598	100774598	0.57	0.63	0.42	0.09	0.43	0.14	15.95	16.47	11.18	2.32	11.38	7.48
axonemal dynein light chain domain-containing protein 1-like	LOC100774601	100774601	0.12	0.16	0.12	0.25	0.19	0.24	12.91	16.47	14.91	25.50	15.52	23.37
solute carrier family 25 member 39 pseudogene	LOC100774606	100774606	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 501-like	LOC100774611	100774611	5.45	5.10	6.21	7.80	7.63	7.31	322.80	308.37	378.84	450.82	433.66	438.36
cardiotrophin-1	LOC100774620	100774620	0.00	0.08	0.00	0.11	0.05	0.04	0.76	2.75	0.00	3.48	3.10	0.93
uncharacterized LOC100774623	LOC100774623	100774623	0.11	0.14	0.11	0.13	0.08	0.05	20.51	32.94	23.60	31.29	21.73	12.15
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100774624	100774624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
bone morphogenetic protein receptor type-1B	LOC100774629	100774629	7.74	7.04	6.99	7.33	6.33	5.76	578.01	551.77	572.60	594.53	498.86	454.25

60S ribosomal protein L37a-like	LOC100774631	100774631	15.28	12.76	11.98	8.53	12.36	11.39	88.11	75.03	68.31	45.20	72.45	57.95
N-alpha-acetyltransferase 10-like	LOC100774641	100774641	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase TRIM9-like	LOC100774649	100774649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cysteine-rich protein 1	LOC100774651	100774651	1.42	2.47	0.00	0.69	1.02	0.14	3.04	5.49	0.00	1.16	3.10	0.00
60S ribosomal protein L32	LOC100774652	100774652	4.20	5.21	6.14	5.64	4.37	4.54	31.14	42.09	52.17	46.36	37.26	34.58
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC100774655	100774655	0.26	0.19	0.10	0.00	0.22	0.00	4.56	4.58	1.24	0.00	4.14	0.00
regulatory factor X-associated protein	LOC100774659	100774659	15.44	16.37	13.86	15.82	15.72	17.18	118.49	135.42	115.51	125.16	125.23	138.33
uncharacterized LOC100774666	LOC100774666	100774666	333.09	413.49	426.14	329.79	299.22	258.15	221.03	252.55	233.51	175.00	175.95	116.83
cytosolic 5'-nucleotidase 3A pseudogene	LOC100774667	100774667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 258	LOC100774680	100774680	0.30	0.00	0.52	0.00	0.00	0.42	0.76	0.00	1.24	0.00	0.00	1.87
protein LSM12 homolog	LOC100774686	100774686	1.07	2.43	0.66	0.42	0.00	0.42	18.23	30.20	11.18	5.79	1.03	4.67
olfactory receptor 1020	LOC100774687	100774687	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 18-like	LOC100774689	100774689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf95	LOC100774691	100774691	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 12D2-like	LOC100774692	100774692	0.06	0.00	0.00	0.00	0.00	0.03	1.52	0.00	0.00	0.00	0.00	0.93
chromosome unknown open reading frame, human C11orf96	LOC100774693	100774693	0.04	0.00	0.00	0.06	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
cytochrome P450 2D27	LOC100774698	100774698	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcriptional regulator ATRX-like	LOC100774699	100774699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

synaptogyrin-1-like	LOC100774700	100774700	11.64	12.46	10.08	8.84	6.04	7.29	540.03	570.98	476.96	419.53	305.32	370.13
H-2 class II histocompatibility antigen, E-S beta chain-like	LOC100774703	100774703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribose-5-phosphate isomerase-like	LOC100774704	100774704	2.23	2.12	2.45	2.19	0.91	1.63	48.61	48.50	52.17	47.52	21.73	34.58
leukocyte immunoglobulin-like receptor subfamily A member 5	LOC100774707	100774707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 147-like	LOC100774708	100774708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme A-like	LOC100774711	100774711	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf62	LOC100774713	100774713	39.30	39.77	43.61	44.63	41.07	42.53	3909.35	4090.20	4454.12	4482.70	4096.48	4213.49
olfactory receptor 52N4	LOC100774716	100774716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative vomeronasal receptor-like protein 4	LOC100774723	100774723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glycine N-acyltransferase	LOC100774725	100774725	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 478-like	LOC100774730	100774730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C11orf63	LOC100774731	100774731	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 3-like	LOC100774738	100774738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC100774740	100774740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein L6-like	LOC100774745	100774745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromatin target of PRMT1 protein pseudogene	LOC100774749	100774749	0.00	0.00	0.06	0.00	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
small nuclear ribonucleoprotein-associated protein N pseudogene	LOC100774751	100774751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like protein 4A	LOC100774753	100774753	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00

60S ribosomal protein L26-like	LOC100774754	100774754	86.49	91.82	79.93	65.68	80.13	66.87	513.45	564.58	445.91	355.79	452.29	360.78
cytochrome P450 20A1-like	LOC100774756	100774756	0.25	0.08	0.09	0.03	0.09	0.04	9.11	3.66	2.48	1.16	3.10	0.93
ubiquitin-40S ribosomal protein S27a pseudogene	LOC100774760	100774760	20.71	22.37	16.45	12.97	17.97	15.09	206.59	208.63	152.78	111.26	161.46	144.87
beta-defensin 123-like	LOC100774761	100774761	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM26F-like	LOC100774768	100774768	0.77	0.62	0.34	0.44	0.43	0.57	7.60	9.15	4.97	3.48	6.21	1.87
olfactory receptor 5D18-like	LOC100774772	100774772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome b-c1 complex subunit 9	LOC100774773	100774773	108.98	96.16	103.20	72.40	53.25	59.55	909.93	794.25	835.92	573.67	437.80	479.49
apolipoprotein F-like	LOC100774779	100774779	0.00	0.00	0.08	0.00	0.07	0.00	0.00	0.00	2.48	0.00	1.03	0.00
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC100774785	100774785	17.34	18.47	17.99	10.45	11.07	8.05	38.74	35.69	33.54	18.54	11.38	9.35
sperm-associated antigen 16 protein	LOC100774786	100774786	0.16	0.10	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC100774787	LOC100774787	100774787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AC1-like	LOC100774791	100774791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
catenin alpha-2-like	LOC100774792	100774792	5.08	4.34	6.22	6.10	7.41	7.19	196.72	175.69	258.35	210.92	267.03	258.90
ectonucleoside triphosphate diphosphohydrolase 4 pseudogene	LOC100774793	100774793	0.07	0.09	0.03	0.08	0.04	0.01	5.32	4.58	1.24	3.48	2.07	0.00
natural killer cells antigen CD94-like	LOC100774794	100774794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf59	LOC100774795	100774795	8.38	8.45	10.09	9.35	9.89	10.06	442.05	446.54	546.52	494.86	529.91	535.57
steroid hormone receptor ERR2 pseudogene	LOC100774800	100774800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microtubule-associated proteins 1A/1B light chain 3B pseudogene	LOC100774804	100774804	1.25	1.00	1.46	0.81	1.35	0.70	9.11	7.32	7.45	5.79	6.21	2.80

olfactory receptor 2AK2-like	LOC100774806	100774806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pumilio domain-containing protein KIAA0020-like	LOC100774808	100774808	0.07	0.09	0.00	0.05	0.07	0.01	2.28	3.66	0.00	2.32	3.10	0.00
olfactory receptor 147-like	LOC100774812	100774812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 13-1	LOC100774817	100774817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC100774820	100774820	1.59	1.55	1.28	1.37	1.43	1.28	34.94	30.20	23.60	31.29	30.01	26.17
speckle-type POZ protein	LOC100774822	100774822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37a-like	LOC100774829	100774829	1.51	1.22	0.43	0.88	0.73	1.03	5.32	6.41	2.48	2.32	3.10	2.80
ubiquitin thioesterase OTUB1 pseudogene	LOC100774836	100774836	0.08	0.05	0.00	0.12	0.00	0.07	1.52	0.92	0.00	2.32	0.00	0.93
malignant fibrous histiocytoma-amplified sequence 1 homolog pseudogene	LOC100774840	100774840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 3 subunit J-like	LOC100774843	100774843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
histone H2B type 2-F	LOC100774845	100774845	0.45	0.42	0.42	0.26	0.25	0.20	12.15	12.81	8.69	8.11	2.07	5.61
proto-oncogene Wnt-3	LOC100774849	100774849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxytocin-neurophysin 1-like	LOC100774850	100774850	0.40	0.60	0.17	0.32	0.28	0.13	6.08	7.32	2.48	2.32	2.07	0.93
GTPase KRas pseudogene	LOC100774851	100774851	3.01	2.10	3.93	1.82	2.80	2.37	12.91	6.41	16.15	9.27	10.35	7.48
zinc finger protein 26-like	LOC100774856	100774856	2.25	2.29	1.97	3.08	3.44	3.04	155.71	165.62	127.93	198.18	214.24	209.37
olfactory receptor 10X1	LOC100774857	100774857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucosal pentraxin-like	LOC100774861	100774861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal transducer CD24 pseudogene	LOC100774863	100774863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cyclin-dependent kinases regulatory subunit 1 pseudogene	LOC100774870	100774870	33.69	35.49	29.45	20.71	24.41	19.27	963.86	931.50	870.70	847.17	869.39	815.97
small nuclear ribonucleoprotein G	LOC100774879	100774879	4.36	6.48	4.33	4.16	3.58	5.38	5.32	9.15	7.45	8.11	7.24	6.54
olfactory receptor 4F6-like	LOC100774881	100774881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurensin-1 pseudogene	LOC100774884	100774884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 40	LOC100774885	100774885	0.03	0.04	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
regenerating islet-derived protein 3-gamma-like	LOC100774888	100774888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein OZF	LOC100774889	100774889	6.50	5.78	6.78	8.32	8.34	8.14	430.66	381.57	459.57	550.49	547.51	538.37
cytochrome c oxidase subunit 7B, mitochondrial pseudogene	LOC100774894	100774894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPRY domain-containing protein 4 pseudogene	LOC100774900	100774900	0.19	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-alpha-like	LOC100774901	100774901	0.07	0.11	0.09	0.11	0.12	0.06	6.08	8.24	4.97	8.11	7.24	9.35
60S ribosomal protein L7 pseudogene	LOC100774902	100774902	0.07	0.20	0.16	0.10	0.14	0.00	1.52	1.83	1.24	1.16	1.03	0.00
high mobility group protein B1 pseudogene	LOC100774905	100774905	0.13	0.23	0.00	0.09	0.17	0.07	1.52	3.66	1.24	6.95	4.14	3.74
tudor and KH domain-containing protein	LOC100774907	100774907	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin beta-11-like	LOC100774914	100774914	0.05	0.06	0.06	0.04	0.05	0.04	4.56	5.49	4.97	3.48	5.17	3.74
60S ribosomal protein L35a	LOC100774916	100774916	0.11	0.07	0.77	0.37	0.24	0.15	0.76	0.92	3.73	2.32	1.03	0.93
60S acidic ribosomal protein P0 pseudogene	LOC100774922	100774922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kish-B pseudogene	LOC100774928	100774928	0.14	0.46	0.50	0.41	0.42	0.40	6.84	18.30	21.12	18.54	16.56	18.69
olfactory receptor 5V1	LOC100774935	100774935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

poly(A) polymerase alpha pseudogene	LOC100774938	100774938	0.47	0.37	0.30	0.18	0.32	0.17	47.09	38.43	33.54	20.86	22.77	17.76
Ig heavy chain V region 441-like	LOC100774940	100774940	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 2J3	LOC100774942	100774942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S3a pseudogene	LOC100774944	100774944	4.13	4.01	3.26	3.74	4.01	3.61	117.73	115.29	89.43	106.62	105.57	105.62
60S ribosomal protein L29	LOC100774945	100774945	5.15	7.31	7.08	4.57	2.06	2.30	61.52	84.18	81.98	48.67	17.59	20.56
mothers against decapentaplegic homolog 1-like	LOC100774946	100774946	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-I region HK102-like	LOC100774949	100774949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC100774954	100774954	3.67	3.55	3.33	4.18	4.37	3.96	225.58	215.95	199.98	249.17	263.92	234.60
nuclease-sensitive element-binding protein 1 pseudogene	LOC100774956	100774956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a pseudogene	LOC100774963	100774963	1.24	0.79	0.74	0.57	0.69	0.72	14.43	8.24	9.94	3.48	7.24	9.35
60S ribosomal protein L5 pseudogene	LOC100774964	100774964	20.80	17.16	15.25	11.04	14.54	13.09	325.08	333.99	329.15	267.71	300.15	261.71
2'-5'-oligoadenylate synthase-like protein 2	LOC100774966	100774966	0.32	0.36	0.52	0.47	0.32	0.48	25.82	33.86	44.72	42.88	23.80	39.26
olfactory receptor 4D1	LOC100774967	100774967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poliovirus receptor-like	LOC100774974	100774974	6.15	6.71	5.26	6.03	6.50	7.19	504.33	539.87	433.49	469.36	500.93	543.98
stress-70 protein, mitochondrial pseudogene	LOC100774975	100774975	7.59	8.38	6.92	5.33	6.99	5.59	182.29	208.63	150.29	112.42	159.39	104.68
olfactory receptor 5M10-like	LOC100774976	100774976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RFWD2 pseudogene	LOC100774978	100774978	0.00	0.05	0.00	0.06	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
zinc finger protein 844-like	LOC100774980	100774980	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	2.32	1.03	0.93

40S ribosomal protein S25 pseudogene	LOC100774982	100774982	7.48	7.36	5.12	4.43	6.44	3.65	47.09	36.60	22.36	19.70	28.98	20.56
serine protease 40-like	LOC100774986	100774986	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
cytochrome P450 2D20-like	LOC100774988	100774988	0.01	0.03	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-lactate dehydrogenase A chain pseudogene	LOC100774989	100774989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell lectin-like receptor 2	LOC100774992	100774992	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.03	0.00
H-2 class II histocompatibility antigen, E-S beta chain-like	LOC100774993	100774993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431	LOC100774994	100774994	22.60	21.58	24.99	28.34	31.30	28.25	1540.35	1476.86	1694.21	1928.44	2106.20	1924.48
olfactory receptor 145	LOC100774997	100774997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin D2 receptor-like	LOC100774999	100774999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disks large homolog 5-like	LOC100775001	100775001	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.92	1.24	0.00	0.00	0.93
60S ribosomal protein L10-like	LOC100775008	100775008	0.64	0.57	0.37	0.35	0.65	0.33	12.15	10.98	7.45	6.95	12.42	6.54
U2 small nuclear ribonucleoprotein B" pseudogene	LOC100775010	100775010	0.94	1.13	1.27	0.72	0.72	0.66	3.80	6.41	3.73	3.48	3.10	0.93
outer dense fiber protein 1-like	LOC100775011	100775011	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5B3-like	LOC100775012	100775012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 481	LOC100775016	100775016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DNA-directed RNA polymerases I, II, and III subunit RPABC4 pseudogene	LOC100775018	100775018	4.47	4.50	0.66	0.00	3.39	1.13	4.56	4.58	0.00	1.16	3.10	0.93
opioid growth factor receptor-like	LOC100775023	100775023	0.01	0.07	0.02	0.02	0.06	0.05	3.80	4.58	4.97	4.64	5.17	4.67
disintegrin and metalloproteinase domain-containing protein 25-like	LOC100775024	100775024	0.01	0.00	0.00	0.00	0.00	0.02	0.76	0.00	0.00	0.00	0.00	0.93

PRAME family member 12-like	LOC100775025	100775025	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.93
pleiotropic regulator 1 pseudogene	LOC100775026	100775026	0.06	0.09	0.00	0.07	0.03	0.09	3.80	4.58	0.00	2.32	1.03	2.80
alpha-enolase pseudogene	LOC100775028	100775028	0.18	0.34	0.18	0.17	0.24	0.00	9.87	14.64	7.45	8.11	12.42	0.93
apolipoprotein L3-like	LOC100775029	100775029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
apolipoprotein L3-like	LOC100775031	100775031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3-like	LOC100775032	100775032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7 pseudogene	LOC100775035	100775035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 6B2-like	LOC100775036	100775036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gamma-aminobutyric acid receptor-associated protein-like 2 pseudogene	LOC100775037	100775037	0.66	0.37	0.00	0.00	0.14	0.53	6.84	2.75	3.73	1.16	5.17	4.67
60S acidic ribosomal protein P0 pseudogene	LOC100775041	100775041	0.00	0.00	0.00	0.00	0.17	0.12	0.00	0.00	0.00	0.00	4.14	2.80
histone H2A type 1	LOC100775043	100775043	0.30	0.28	0.08	0.10	0.23	0.29	7.60	9.15	3.73	2.32	6.21	6.54
chromosome unknown open reading frame, human C1orf210	LOC100775046	100775046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase 2B-like	LOC100775051	100775051	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S28	LOC100775054	100775054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5W2-like	LOC100775055	100775055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cyclin-D-binding Myb-like transcription factor 1 pseudogene	LOC100775068	100775068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC100775072	LOC100775072	100775072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 5AC1-like	LOC100775077	100775077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

tumor suppressor candidate 3-like	LOC100775078	100775078	20.09	20.86	21.24	22.86	25.34	23.04	441.29	468.50	462.06	471.68	553.72	489.77
serum amyloid A-5 protein	LOC100775081	100775081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein NEDD1 pseudogene	LOC100775086	100775086	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
histone H2B type 2-F-like	LOC100775087	100775087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cofilin-2 pseudogene	LOC100775091	100775091	17.68	21.76	34.32	26.05	26.24	24.27	70.64	93.33	166.44	114.73	110.74	90.66
protein TBRG4-like	LOC100775096	100775096	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
disintegrin and metalloproteinase domain-containing protein 26A-like	LOC100775098	100775098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 147-like	LOC100775101	100775101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
angiotensin-converting enzyme-like	LOC103158533	103158533	0.00	0.00	0.04	0.00	0.02	0.02	0.76	0.00	2.48	0.00	1.03	0.93
neuroendocrine secretory protein 55-like	LOC103158534	103158534	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158537	LOC103158537	103158537	29.25	39.88	34.52	48.33	33.54	38.45	337.99	366.01	373.87	439.23	393.29	437.43
galactoside 3(4)-L-fucosyltransferase-like	LOC103158538	103158538	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dual specificity mitogen-activated protein kinase kinase 1-like	LOC103158541	103158541	16.70	16.13	16.10	12.61	9.90	9.43	5.32	4.58	4.97	6.95	5.17	6.54
N-alpha-acetyltransferase 11-like	LOC103158544	103158544	176.19	173.75	181.30	179.11	157.45	171.45	4738.77	4694.12	4965.86	5174.58	4825.11	5252.84
chromosome unknown open reading frame, human C19orf48	LOC103158545	103158545	70.01	68.73	81.74	70.47	59.25	61.68	3002.46	2945.49	3522.56	2992.33	2519.16	2647.92
mucin-2-like	LOC103158547	103158547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 157	LOC103158548	103158548	0.37	0.48	0.42	0.32	0.44	0.45	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S8 pseudogene	LOC103158549	103158549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

tubulin alpha chain-like	LOC103158550	103158550	12.15	11.43	11.68	14.23	15.45	14.98	1332.23	1245.36	1286.80	1546.00	1670.47	1645.02
60S ribosomal protein L17 pseudogene	LOC103158551	103158551	0.21	0.05	0.00	0.14	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
zinc finger protein ZFAT pseudogene	LOC103158552	103158552	2.13	0.92	1.29	1.01	0.87	0.60	0.00	0.00	0.00	0.00	0.00	0.00
protein archease pseudogene	LOC103158553	103158553	0.08	0.05	0.00	0.00	0.17	0.05	0.76	0.00	0.00	1.16	1.03	0.93
keratinocyte-associated protein 3 pseudogene	LOC103158554	103158554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratinocyte-associated transmembrane protein 2 pseudogene	LOC103158555	103158555	5.47	5.42	6.00	5.37	6.00	5.78	4.56	3.66	4.97	0.00	3.10	0.93
DNA (cytosine-5)-methyltransferase 3B-like	LOC103158556	103158556	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stAR-related lipid transfer protein 6 pseudogene	LOC103158557	103158557	0.04	0.00	0.00	0.00	0.05	0.00	1.52	4.58	1.24	1.16	4.14	3.74
interleukin-11 receptor subunit alpha pseudogene	LOC103158559	103158559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDP-glucuronosyltransferase 2A3-like	LOC103158560	103158560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158565	LOC103158565	103158565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgin subfamily A member 2-like	LOC103158566	103158566	8.42	9.99	12.66	14.33	8.64	7.25	60.76	73.20	70.80	69.54	70.38	49.54
Krueppel-like factor 11	LOC103158567	103158567	0.05	0.03	0.00	0.04	0.07	0.00	2.28	0.92	0.00	1.16	2.07	0.00
carcinoembryonic antigen-related cell adhesion molecule 1 pseudogene	LOC103158568	103158568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-1-antitrypsin 1-6-like	LOC103158570	103158570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 4	LOC103158572	103158572	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
killer cell immunoglobulin-like receptor 3DL3	LOC103158573	103158573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 566-like	LOC103158574	103158574	6.86	7.07	9.76	10.03	9.39	8.96	463.32	480.39	668.24	672.17	623.06	615.95

polycomb complex protein BMI-1 pseudogene	LOC103158575	103158575	0.52	0.81	0.43	0.55	0.49	0.76	7.60	11.90	8.69	11.59	7.24	14.95
uncharacterized LOC103158576	LOC103158576	103158576	0.01	0.00	0.11	0.00	0.00	0.05	12.15	16.47	18.63	6.95	5.17	16.82
uncharacterized protein CXorf49 homolog	LOC103158577	103158577	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
granzyme G-like	LOC103158579	103158579	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B-like	LOC103158580	103158580	1.71	1.89	1.95	1.63	1.02	1.42	25.82	31.11	32.29	27.81	14.49	23.37
disks large homolog 5-like	LOC103158581	103158581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 383-like	LOC103158582	103158582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC103158584	103158584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 14-like	LOC103158585	103158585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 239-like	LOC103158586	103158586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase W-like	LOC103158587	103158587	0.41	0.26	0.95	0.84	0.73	0.65	18.23	12.81	47.20	39.40	31.05	30.84
mucin-12-like	LOC103158588	103158588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tenascin-X-like	LOC103158589	103158589	1.61	1.55	0.13	0.17	0.09	0.19	138.24	129.93	13.66	12.75	6.21	16.82
uncharacterized LOC103158590	LOC103158590	103158590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158592	LOC103158592	103158592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.00
zinc finger protein 664-like	LOC103158594	103158594	1.27	1.43	1.48	1.15	1.68	1.67	75.19	85.10	86.95	68.38	102.46	99.07
putative ribosomal RNA-processing protein 7 homolog B pseudogene	LOC103158595	103158595	0.55	0.63	1.34	1.22	1.06	1.37	2.28	3.66	7.45	6.95	4.14	5.61
butyrophilin subfamily 1 member A1-like	LOC103158596	103158596	0.02	0.05	0.00	0.03	0.03	0.00	3.04	2.75	2.48	1.16	5.17	2.80

PR domain zinc finger protein 2-like	LOC103158597	103158597	3.49	3.47	4.92	3.71	3.52	2.54	56.97	62.22	88.19	64.90	68.31	51.41
uncharacterized LOC103158599	LOC103158599	103158599	0.10	0.62	0.17	0.16	0.14	0.00	3.04	4.58	6.21	4.64	1.03	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC103158600	103158600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 51F1-like	LOC103158603	103158603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B18-like	LOC103158604	103158604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin polyglutamylase TTLL6-like	LOC103158605	103158605	0.07	0.09	0.00	0.04	0.00	0.03	2.28	2.75	0.00	1.16	0.00	1.87
uncharacterized LOC103158606	LOC103158606	103158606	0.32	0.51	0.85	0.00	0.30	0.85	3.04	2.75	8.69	5.79	1.03	2.80
uncharacterized LOC103158607	LOC103158607	103158607	0.00	0.28	0.00	0.00	0.16	0.15	0.00	2.75	0.00	0.00	3.10	0.93
uncharacterized LOC103158608	LOC103158608	103158608	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin-like protein KIF11 pseudogene	LOC103158609	103158609	0.00	0.00	0.00	0.14	0.12	0.00	0.76	0.00	1.24	1.16	3.10	0.93
protein FRG2-like-2	LOC103158610	103158610	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-IV region-like	LOC103158611	103158611	0.00	0.00	0.00	0.00	0.00	0.00						
Ig kappa chain V-IV region-like	LOC103158612	103158612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-I region HK102-like	LOC103158613	103158613	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158614	LOC103158614	103158614	2.25	1.03	1.97	0.79	1.90	1.66	19.75	17.39	33.54	13.91	25.87	27.11
uncharacterized LOC103158615	LOC103158615	103158615	0.86	0.59	0.10	0.19	0.17	0.15	17.47	10.98	4.97	6.95	2.07	2.80
uncharacterized LOC103158616	LOC103158616	103158616	1.05	1.14	1.73	1.91	2.30	2.98	25.06	23.79	32.29	37.09	43.47	57.01
uncharacterized LOC103158617	LOC103158617	103158617	0.07	0.08	0.04	0.11	0.16	0.11	9.87	10.07	6.21	12.75	21.73	14.95

uncharacterized LOC103158618	LOC103158618	103158618	0.10	0.12	0.00	0.04	0.00	0.00	3.80	3.66	0.00	1.16	0.00	0.00
IQ and AAA domain-containing protein 1-like	LOC103158619	103158619	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158620	LOC103158620	103158620	0.48	0.70	0.59	0.72	0.97	0.75	33.42	46.67	40.99	47.52	61.06	45.80
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3 pseudogene	LOC103158621	103158621	0.00	0.06	0.00	0.08	0.14	0.12	3.04	1.83	1.24	1.16	3.10	3.74
protein FAM19A5-like	LOC103158622	103158622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158623	LOC103158623	103158623	5.66	6.07	5.36	5.86	6.84	7.25	229.38	230.59	197.49	212.08	231.84	241.14
uncharacterized LOC103158624	LOC103158624	103158624	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S6-like	LOC103158625	103158625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
arginine-fifty homeobox-like	LOC103158626	103158626	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
nuclear autoantigen Sp-100-like	LOC103158627	103158627	0.06	0.14	0.29	0.09	0.00	0.00	3.80	1.83	3.73	2.32	0.00	0.00
uncharacterized LOC103158628	LOC103158628	103158628	1.16	0.97	0.78	0.89	0.90	1.18	37.98	29.28	31.05	31.29	28.98	42.06
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC103158629	103158629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(rC)-binding protein 2-like	LOC103158630	103158630	0.48	0.72	0.55	0.28	0.35	0.21	2.28	2.75	2.48	1.16	1.03	4.67
uncharacterized LOC103158631	LOC103158631	103158631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma-associated antigen B4-like	LOC103158632	103158632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
calmodulin pseudogene	LOC103158633	103158633	25.69	26.38	22.81	21.26	18.33	18.03	705.61	724.71	623.53	558.60	484.37	462.66
uncharacterized LOC103158634	LOC103158634	103158634	0.10	0.18	0.00	0.08	0.07	0.00	3.04	4.58	1.24	2.32	5.17	4.67
Ig kappa chain V-V region K2-like	LOC103158635	103158635	0.00	0.00	0.00	0.00	0.00	0.00						

Golgi membrane protein 1-like	LOC103158636	103158636	19.13	17.19	17.24	14.53	9.85	10.86	131.40	115.29	109.30	97.35	69.34	72.90
terminal uridylyltransferase 4-like	LOC103158637	103158637	0.02	0.09	0.03	0.03	0.02	0.05	0.76	3.66	1.24	1.16	1.03	1.87
uncharacterized LOC103158638	LOC103158638	103158638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-12-like	LOC103158639	103158639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158640	LOC103158640	103158640	0.16	0.00	0.15	0.05	0.17	0.04	5.32	0.00	4.97	2.32	5.17	1.87
Ig kappa chain V-IV region-like	LOC103158641	103158641	0.00	0.00	0.00	0.00	0.00	0.00						
GRB2-associated-binding protein 2 pseudogene	LOC103158642	103158642	0.97	0.98	0.67	0.61	0.59	0.70	86.59	86.01	63.35	54.47	50.71	61.69
vomeronasal type-1 receptor 4-like	LOC103158643	103158643	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC103158644	103158644	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158646	LOC103158646	103158646	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158647	LOC103158647	103158647	59.94	58.08	48.08	43.68	37.48	35.43	522.56	516.99	519.19	455.46	435.73	404.71
uncharacterized LOC103158648	LOC103158648	103158648	1.12	1.45	0.25	0.43	0.98	1.07	100.26	110.72	23.60	41.72	76.59	96.27
Ig heavy chain V region PJ14-like	LOC103158649	103158649	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region PJ14-like	LOC103158650	103158650	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region PJ14-like	LOC103158651	103158651	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L30-like	LOC103158652	103158652	0.00	0.15	0.00	0.10	0.00	0.15	0.00	1.83	0.00	1.16	3.10	4.67
uncharacterized LOC103158653	LOC103158653	103158653	0.42	0.51	0.10	0.67	0.60	0.38	19.75	13.73	17.39	22.02	31.05	28.04
60S ribosomal protein L6 pseudogene	LOC103158654	103158654	0.29	0.45	0.26	0.27	0.45	0.47	20.51	28.37	13.66	16.22	25.87	30.84

uncharacterized LOC103158655	LOC103158655	103158655	8.40	8.75	16.59	15.31	15.08	14.30	86.59	99.74	172.65	184.27	173.88	164.50
cactin pseudogene	LOC103158656	103158656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen alpha-1(XXIV) chain-like	LOC103158657	103158657	0.12	0.07	0.00	0.00	0.00	0.00	6.84	6.41	3.73	1.16	7.24	2.80
adenylate cyclase type 3	LOC103158658	103158658	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.92	1.24	1.16	0.00	0.93
spermatogenesis-associated protein 31E1-like	LOC103158659	103158659	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
H/ACA ribonucleoprotein complex subunit 1-like	LOC103158660	103158660	74.41	75.14	74.79	75.27	83.01	84.74	1.52	2.75	3.73	4.64	2.07	3.74
uncharacterized LOC103158661	LOC103158661	103158661	0.18	0.57	0.00	0.29	0.17	0.00	5.32	10.07	0.00	4.64	3.10	0.00
uncharacterized LOC103158662	LOC103158662	103158662	7.93	10.82	9.59	5.58	6.65	9.39	94.94	112.55	103.09	92.71	120.06	95.34
ATP-binding cassette sub-family A member 3-like	LOC103158663	103158663	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
ubiquitin-associated and SH3 domain-containing protein B	LOC103158664	103158664	80.85	93.76	59.34	70.87	58.30	69.03	568.89	626.80	423.55	455.46	379.84	418.73
Ig kappa chain V-IV region-like	LOC103158665	103158665	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158666	LOC103158666	103158666	2.16	1.88	3.74	2.19	2.25	0.86	12.91	7.32	12.42	8.11	10.35	6.54
collagen alpha-3(IV) chain-like	LOC103158667	103158667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein transport protein Sec24D-like	LOC103158668	103158668	10.10	10.21	9.52	6.53	6.56	4.51	66.84	67.71	59.62	38.24	32.08	28.97
uncharacterized LOC103158669	LOC103158669	103158669	0.00	0.20	0.00	0.13	0.24	0.43	1.52	3.66	2.48	3.48	5.17	6.54
vomeronasal type-1 receptor 4-like	LOC103158670	103158670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC103158671	103158671	4.41	3.69	4.85	5.00	4.22	5.77	27.34	23.79	22.36	42.88	33.12	27.11
Ig heavy chain V region 3-like	LOC103158672	103158672	0.00	0.00	0.00	0.00	0.00	0.00						

Ig heavy chain V region 3-like	LOC103158673	103158673	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103158674	103158674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutenin, high molecular weight subunit DY10-like	LOC103158675	103158675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC103158676	103158676	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158677	LOC103158677	103158677	12.76	11.60	14.80	12.72	12.76	12.44	186.09	161.96	212.40	165.73	159.39	141.14
zinc finger protein 664-like	LOC103158678	103158678	0.04	0.08	0.00	0.07	0.00	0.05	1.52	3.66	0.00	3.48	1.03	1.87
zinc finger protein OZF-like	LOC103158679	103158679	0.05	0.06	0.03	0.03	0.06	0.02	2.28	2.75	1.24	2.32	2.07	0.93
putative zinc finger protein 56	LOC103158680	103158680	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L18a pseudogene	LOC103158681	103158681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region PJ14-like	LOC103158682	103158682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region MC101-like	LOC103158683	103158683	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region PJ14-like	LOC103158684	103158684	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region PJ14-like	LOC103158685	103158685	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158686	LOC103158686	103158686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158687	LOC103158687	103158687	3.86	3.72	3.07	3.13	4.06	4.24	107.10	121.70	94.40	106.62	138.69	133.66
40S ribosomal protein S6 pseudogene	LOC103158688	103158688	0.18	0.55	0.52	0.14	0.00	0.00	5.32	10.07	8.69	2.32	0.00	0.00
uncharacterized LOC103158689	LOC103158689	103158689	0.00	0.06	0.08	0.00	0.20	0.00	0.00	0.92	1.24	0.00	4.14	0.00
uncharacterized LOC103158690	LOC103158690	103158690	40.50	37.68	34.40	12.24	5.62	5.61	923.60	855.56	777.55	272.35	129.37	127.12

Ig kappa chain V-IV region-like	LOC103158691	103158691	0.00	0.00	0.00	0.00	0.00	0.00						
cyclin-dependent kinase 4 pseudogene	LOC103158692	103158692	0.37	0.45	0.39	0.26	0.19	0.19	8.35	10.07	8.69	5.79	4.14	3.74
sericin-1-like	LOC103158693	103158693	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158694	LOC103158694	103158694	0.58	0.61	0.36	0.79	0.25	0.86	11.39	16.47	13.66	16.22	5.17	17.76
serine palmitoyltransferase small subunit A	LOC103158695	103158695	32.09	33.77	22.76	25.00	29.55	34.37	439.77	462.09	424.79	428.80	518.53	533.70
zinc finger protein 120 pseudogene	LOC103158696	103158696	0.00	0.00	0.00	0.00	0.00	0.00	28.86	14.64	14.91	6.95	7.24	6.54
uncharacterized LOC103158697	LOC103158697	103158697	0.91	0.59	0.40	0.37	0.34	0.23	30.38	32.94	14.91	12.75	12.42	9.35
40S ribosomal protein S2 pseudogene	LOC103158698	103158698	0.06	0.08	0.12	0.10	0.12	0.11	4.56	4.58	8.69	6.95	7.24	7.48
WNT1-inducible-signaling pathway protein 1-like	LOC103158699	103158699	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158700	LOC103158700	103158700	2.97	2.63	0.87	0.58	0.52	0.60	13.67	16.47	3.73	3.48	3.10	5.61
glycosyl-phosphatidylinositol-anchored molecule-like protein	LOC103158701	103158701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158702	LOC103158702	103158702	0.00	0.00	0.00	3.08	0.00	0.00	3.04	2.75	1.24	3.48	1.03	0.00
integrin alpha-D-like	LOC103158703	103158703	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
homeobox protein OTX2-like	LOC103158704	103158704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
T-cell receptor alpha chain V region 2B4-like	LOC103158705	103158705	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103158706	103158706	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L19 pseudogene	LOC103158707	103158707	0.18	0.14	0.10	0.13	0.13	0.17	29.62	24.71	17.39	20.86	22.77	28.04
keratin-associated protein 4-4-like	LOC103158708	103158708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sarcosine dehydrogenase, mitochondrial-like	LOC103158709	103158709	0.14	0.08	0.00	0.00	0.00	0.09	1.52	0.92	0.00	1.16	0.00	0.93
fer-1-like protein 6	LOC103158710	103158710	1.39	1.20	1.68	1.39	1.45	0.68	28.10	27.45	26.08	20.86	20.70	19.63
spermatogenesis-associated protein 31E1-like	LOC103158711	103158711	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103158712	LOC103158712	103158712	0.22	0.40	0.37	0.00	0.00	0.14	2.28	1.83	2.48	0.00	1.03	0.93
chromosome unknown open reading frame, human C1orf52	LOC103158713	103158713	28.16	28.23	25.00	22.56	22.93	21.52	519.52	545.36	462.06	403.30	390.19	380.41
uncharacterized LOC103158714	LOC103158714	103158714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158715	LOC103158715	103158715	0.14	0.13	0.08	0.12	0.09	0.07	2.28	2.75	3.73	2.32	5.17	0.00
Ig heavy chain V region 186-1-like	LOC103158716	103158716	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158717	LOC103158717	103158717	478.47	499.99	607.94	637.21	670.92	589.11	176.97	203.14	172.65	126.32	171.81	104.68
uncharacterized LOC103158718	LOC103158718	103158718	7.28	7.54	8.91	8.51	9.43	9.82	348.63	357.78	435.97	399.83	452.29	467.33
PRAME family member 12-like	LOC103158719	103158719	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158720	LOC103158720	103158720	3.80	3.76	4.23	2.95	1.73	2.45	250.65	280.00	281.95	209.76	230.80	214.97
Ig kappa chain V-V region K2-like	LOC103158721	103158721	0.00	0.00	0.00	0.00	0.00	0.00						
eukaryotic translation initiation factor 3 subunit J-like	LOC103158722	103158722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
40S ribosomal protein S9-like	LOC103158723	103158723	38.29	39.47	29.80	15.25	8.91	8.52	40.26	40.26	29.81	12.75	31.05	17.76
uncharacterized LOC103158724	LOC103158724	103158724	16.69	12.58	7.77	2.33	3.11	4.42	157.22	110.72	64.59	26.66	32.08	35.52
poly [ADP-ribose] polymerase 9-like	LOC103158725	103158725	1.30	2.04	1.78	2.72	2.85	2.22	10.63	16.47	14.91	24.34	21.73	19.63
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC103158726	103158726	0.80	0.86	0.21	0.20	0.10	0.05	22.79	24.71	2.48	6.95	1.03	0.93

uncharacterized LOC103158727	LOC103158727	103158727	0.48	0.34	0.34	0.55	0.78	0.57	21.27	19.22	17.39	24.34	43.47	30.84
putative methyl-CpG-binding domain protein 3-like 5	LOC103158728	103158728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158729	LOC103158729	103158729	5.27	3.27	1.06	1.77	1.76	1.06	193.68	169.28	63.35	62.58	67.27	63.56
kinesin-like protein KIF11	LOC103158730	103158730	23.51	22.72	20.84	23.82	28.57	27.97	1029.18	979.09	914.18	1037.23	1215.07	1198.25
uncharacterized LOC103158731	LOC103158731	103158731	13.13	12.37	5.45	5.88	8.85	6.69	236.22	224.18	106.82	110.10	153.18	124.31
uncharacterized LOC103158734	LOC103158734	103158734	0.83	0.76	1.24	1.26	1.27	1.52	25.06	22.88	45.96	42.88	26.91	38.32
uncharacterized LOC103158735	LOC103158735	103158735	0.00	0.00	0.00	0.31	0.00	0.38	0.00	1.83	1.24	5.79	4.14	3.74
uncharacterized LOC103158736	LOC103158736	103158736	31.24	30.38	20.38	23.29	25.87	23.11	549.15	530.72	306.80	374.33	423.31	452.38
collagen alpha-3(VI) chain-like	LOC103158737	103158737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 52B2-like	LOC103158738	103158738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158739	LOC103158739	103158739	102.09	58.78	120.45	98.02	106.09	126.46	205.08	183.01	122.97	140.23	126.27	93.47
uncharacterized LOC103158740	LOC103158740	103158740	0.44	0.44	0.43	0.66	0.76	0.85	93.42	105.23	98.12	144.86	164.56	179.46
uncharacterized LOC103158741	LOC103158741	103158741	1.79	2.64	1.10	0.94	0.65	1.59	21.27	27.45	4.97	8.11	6.21	13.09
leucine-rich repeat-containing protein 58-like	LOC103158742	103158742	50.24	51.00	52.13	58.56	64.14	63.92	1108.93	1078.82	1126.57	1368.68	1393.09	1493.60
uncharacterized LOC103158743	LOC103158743	103158743	28.22	27.45	28.89	32.02	36.02	34.85	1301.85	1251.77	1336.49	1464.87	1672.54	1658.10
T-cell receptor alpha chain V region CTL-L17-like	LOC103158744	103158744	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158745	LOC103158745	103158745	0.11	0.23	0.00	0.18	0.16	0.09	3.80	4.58	0.00	4.64	3.10	1.87
Ig kappa chain V-III region MOPC 321-like	LOC103158747	103158747	0.00	0.00	0.00	0.00	0.00	0.00						

cytokine receptor common subunit beta-like	LOC103158748	103158748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen alpha-1(III) chain-like	LOC103158749	103158749	4.26	3.44	2.60	2.11	2.66	1.90	139.00	112.55	104.34	75.33	85.90	63.56
protein FAM104A-like	LOC103158750	103158750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen alpha-4(IV) chain	LOC103158751	103158751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
telomerase reverse transcriptase-like	LOC103158752	103158752	0.39	0.38	0.43	0.40	0.66	0.41	4.56	6.41	3.73	3.48	6.21	6.54
hereditary hemochromatosis protein homolog	LOC103158753	103158753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region 2B4-like	LOC103158754	103158754	0.00	0.00	0.00	0.00	0.00	0.00						
bcl-2-associated transcription factor 1 pseudogene	LOC103158755	103158755	5.66	5.96	5.71	6.23	6.25	5.84	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103158756	LOC103158756	103158756	12.35	12.41	4.42	4.65	0.02	0.05	837.01	807.97	309.28	323.34	2.07	3.74
low-density lipoprotein receptor-related protein 1B-like	LOC103158757	103158757	0.12	0.00	0.00	0.00	0.17	0.46	1.52	0.00	0.00	0.00	1.03	2.80
uncharacterized LOC103158758	LOC103158758	103158758	0.26	0.29	0.30	0.32	0.50	0.42	8.35	10.98	8.69	8.11	15.52	10.28
sperm motility kinase-like	LOC103158759	103158759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein-like	LOC103158760	103158760	0.30	0.15	0.00	0.00	0.00	0.05	31.90	32.03	18.63	12.75	19.66	13.09
fer-1-like protein 6	LOC103158761	103158761	0.48	0.52	0.35	0.08	0.37	0.40	8.35	8.24	4.97	2.32	5.17	5.61
spermatogenesis-associated protein 31C2-like	LOC103158762	103158762	0.03	0.04	0.00	0.01	0.05	0.00	0.00	0.92	0.00	1.16	0.00	0.00
ephrin-B2-like	LOC103158763	103158763	6.72	6.41	5.88	5.48	5.06	5.59	334.96	324.84	291.89	280.46	251.50	288.81
uncharacterized LOC103158764	LOC103158764	103158764	0.84	0.59	0.22	0.41	0.43	0.28	13.67	4.58	3.73	5.79	4.14	5.61
synaptonemal complex protein 3-like	LOC103158765	103158765	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00

androgen-binding protein homolog	LOC103158766	103158766	5.57	3.53	2.34	3.74	7.34	5.10	48.61	38.43	34.78	49.83	73.48	58.88
WD repeat-containing protein 63-like	LOC103158767	103158767	0.08	0.10	0.02	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC103158769	103158769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region CTL-L17-like	LOC103158770	103158770	0.00	0.00	0.00	0.00	0.00	0.00						
leukocyte immunoglobulin-like receptor subfamily A member 6	LOC103158771	103158771	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-II region 26-10-like	LOC103158772	103158772	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158773	LOC103158773	103158773	8.29	8.12	7.16	11.95	12.92	10.75	73.68	74.12	69.56	93.87	107.64	101.88
uncharacterized LOC103158774	LOC103158774	103158774	0.55	0.25	0.00	0.00	0.00	0.00	5.32	4.58	1.24	0.00	0.00	0.00
uncharacterized protein-like	LOC103158775	103158775	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
uncharacterized LOC103158776	LOC103158776	103158776	0.57	0.66	0.54	0.81	0.87	1.00	19.75	19.22	17.39	27.81	36.22	35.52
uncharacterized LOC103158777	LOC103158777	103158777	1.79	1.75	0.46	0.33	0.48	0.35	76.71	79.61	33.54	23.18	36.22	34.58
high mobility group protein B1 pseudogene	LOC103158778	103158778	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.93
putative GPI-anchored protein PB15E9.01c	LOC103158779	103158779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-II region 26-10-like	LOC103158781	103158781	0.00	0.00	0.00	0.00	0.00	0.00						
protein FAM83A pseudogene	LOC103158782	103158782	0.05	0.03	0.00	0.00	0.07	0.00	1.52	1.83	0.00	0.00	3.10	0.00
lethal(3)malignant brain tumor-like protein 3	LOC103158783	103158783	6.87	7.66	7.40	4.98	4.87	6.27	77.47	87.84	68.31	49.83	63.13	70.10
protein NDRG1-like	LOC103158784	103158784	8.38	9.23	4.07	4.09	4.08	4.70	0.00	0.92	1.24	1.16	0.00	0.93
olfactory receptor 8B3-like	LOC103158785	103158785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

complement factor H-related protein 3-like	LOC103158786	103158786	1.22	1.13	0.64	0.57	0.87	0.15	6.08	7.32	2.48	2.32	4.14	0.93
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC103158787	103158787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase W-like	LOC103158788	103158788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158789	LOC103158789	103158789	1.65	2.49	2.07	2.50	1.45	2.25	52.41	64.05	53.41	48.67	38.29	37.39
proto-oncogene FRAT1-like	LOC103158790	103158790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sialic acid-binding Ig-like lectin 12	LOC103158791	103158791	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
probable gluconokinase	LOC103158792	103158792	4.20	7.57	5.67	10.83	4.87	1.66	120.01	124.44	118.00	136.75	80.73	89.73
uncharacterized LOC103158793	LOC103158793	103158793	0.48	0.94	0.97	0.47	0.27	0.87	9.87	18.30	17.39	12.75	10.35	7.48
vomeronasal type-2 receptor 116-like	LOC103158795	103158795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158796	LOC103158796	103158796	5.28	4.14	5.43	4.17	3.25	2.66	24.31	19.22	19.87	9.27	11.38	7.48
uncharacterized LOC103158797	LOC103158797	103158797	1.99	2.02	2.32	1.15	1.64	1.56	60.76	64.05	70.80	40.56	51.75	46.73
Ig heavy chain V-III region VH26-like	LOC103158798	103158798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily B member 3	LOC103158799	103158799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thymosin beta-10 pseudogene	LOC103158801	103158801	3.13	3.05	0.91	0.68	1.03	0.82	82.79	69.54	9.94	22.02	18.63	27.11
uncharacterized LOC103158802	LOC103158802	103158802	0.26	0.53	0.12	0.30	0.28	0.45	14.43	24.71	3.73	6.95	6.21	7.48
uncharacterized LOC103158803	LOC103158803	103158803	16.22	16.38	24.19	23.57	22.63	21.68	309.89	332.16	488.14	490.22	490.58	464.53
uncharacterized LOC103158804	LOC103158804	103158804	0.15	0.13	0.12	0.11	0.20	0.00	9.11	6.41	4.97	4.64	8.28	4.67
desmoglein-2-like	LOC103158805	103158805	0.59	0.90	0.10	0.41	0.37	0.37	14.43	19.22	3.73	9.27	8.28	8.41

E3 ubiquitin-protein ligase RNF216 pseudogene	LOC103158806	103158806	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
dual specificity mitogen-activated protein kinase kinase 1-like	LOC103158807	103158807	21.60	18.06	18.41	21.07	20.96	25.92	184.57	148.24	146.57	171.52	152.14	199.08
uncharacterized LOC103158808	LOC103158808	103158808	2.38	3.69	1.73	1.67	2.33	2.26	28.10	46.67	28.57	30.13	32.08	41.13
cell migration-inducing and hyaluronan-binding protein-like	LOC103158809	103158809	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
interferon-induced transmembrane protein 1-like	LOC103158810	103158810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158811	LOC103158811	103158811	0.49	0.72	0.23	0.50	0.38	0.33	24.31	29.28	12.42	24.34	15.52	12.15
uncharacterized LOC103158812	LOC103158812	103158812	0.71	1.73	0.62	0.64	0.00	1.00	24.31	20.13	34.78	22.02	26.91	34.58
uncharacterized LOC103158813	LOC103158813	103158813	0.22	0.27	0.07	0.13	0.00	0.00	7.60	9.15	2.48	5.79	0.00	0.00
uncharacterized LOC103158814	LOC103158814	103158814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YLP motif-containing protein 1-like	LOC103158815	103158815	3.22	3.15	3.32	4.11	4.85	4.22	0.76	1.83	4.97	2.32	2.07	2.80
filamin-binding LIM protein 1-like	LOC103158816	103158816	3.58	3.26	4.26	0.91	2.82	2.14	39.50	41.18	36.02	26.66	20.70	26.17
uncharacterized LOC103158817	LOC103158817	103158817	0.16	0.20	0.27	0.13	0.00	0.00	5.32	2.75	4.97	6.95	7.24	4.67
U2 snRNP-associated SURP motif-containing protein-like	LOC103158818	103158818	17.29	17.20	8.53	14.21	14.00	9.83	171.66	180.26	103.09	141.39	140.76	101.88
uncharacterized LOC103158820	LOC103158820	103158820	2.73	2.11	1.78	1.60	1.69	1.78	111.65	94.25	67.07	57.95	50.71	50.47
uncharacterized LOC103158821	LOC103158821	103158821	2.01	1.50	2.41	2.02	2.09	1.91	64.56	49.41	79.49	67.22	69.34	61.69
lysophosphatidylcholine acyltransferase 1-like	LOC103158822	103158822	0.98	0.60	1.12	0.75	0.84	0.83	55.45	34.77	64.59	40.56	45.54	47.67
TBC1 domain family member 31-like	LOC103158824	103158824	21.10	23.23	18.57	20.24	17.60	18.94	455.72	498.69	399.95	403.30	352.93	379.48
Ig kappa chain V-IV region-like	LOC103158825	103158825	0.00	0.00	0.00	0.00	0.00	0.00						

UDP-N-acetylglucosamine transferase subunit ALG14 homolog	LOC103158826	103158826	13.04	13.30	12.87	14.01	15.15	13.14	4.56	9.15	3.73	5.79	6.21	9.35
cadherin EGF LAG seven-pass G-type receptor 3-like	LOC103158827	103158827	0.28	0.19	0.52	0.61	0.51	0.57	3.80	2.75	13.66	8.11	6.21	12.15
cadherin EGF LAG seven-pass G-type receptor 3-like	LOC103158828	103158828	0.02	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158829	LOC103158829	103158829	0.22	0.13	0.37	0.35	0.00	0.28	2.28	5.49	2.48	16.22	3.10	5.61
uncharacterized LOC103158830	LOC103158830	103158830	1079.42	1015.24	933.66	1014.06	1274.75	1234.26	3450.59	3397.52	3261.72	3519.64	4101.65	4167.69
uncharacterized LOC103158831	LOC103158831	103158831	0.27	0.00	0.00	1.39	0.00	0.00	22.03	16.47	19.87	26.66	20.70	18.69
melanoma antigen preferentially expressed in tumors-like	LOC103158832	103158832	0.00	0.21	0.00	0.29	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103158833	LOC103158833	103158833	68.07	84.82	92.83	83.07	116.78	118.36	241.53	298.30	306.80	270.03	375.70	338.35
retinal-specific ATP-binding cassette transporter-like	LOC103158834	103158834	0.00	0.07	0.09	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.03	0.00
splicing regulatory glutamine/lysine-rich protein 1-like	LOC103158835	103158835	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
annexin A13	LOC103158836	103158836	0.00	0.00	0.00	0.00	0.00	0.00	7.60	7.32	2.48	3.48	5.17	5.61
fer-1-like protein 6	LOC103158837	103158837	0.63	0.42	0.23	0.33	0.10	0.35	8.35	5.49	2.48	3.48	1.03	3.74
uncharacterized LOC103158838	LOC103158838	103158838	8.33	8.23	9.65	7.95	11.41	6.49	184.57	170.20	161.47	164.57	190.44	162.63
ankyrin-3-like	LOC103158839	103158839	5.73	6.84	5.22	9.54	6.39	6.70	71.40	85.10	62.10	111.26	76.59	78.51
serine/threonine-protein phosphatase 4 regulatory subunit 1-like	LOC103158840	103158840	17.42	14.80	15.13	15.39	15.37	17.38	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120 pseudogene	LOC103158841	103158841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158842	LOC103158842	103158842	23.24	22.91	19.86	15.31	11.54	9.33	843.09	874.77	663.27	572.51	565.10	511.26
uncharacterized LOC103158843	LOC103158843	103158843	32.57	37.46	22.61	15.84	17.55	20.23	117.73	126.27	53.41	57.95	45.54	41.13

NUT family member Gm806-like	LOC103158845	103158845	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PHD finger protein 20-like protein 1	LOC103158846	103158846	18.41	17.39	9.70	11.92	14.28	13.35	497.50	480.39	268.29	351.15	373.63	360.78
uncharacterized LOC103158847	LOC103158847	103158847	0.57	0.43	0.26	0.61	0.61	0.11	18.99	16.47	9.94	12.75	17.59	12.15
uncharacterized LOC103158848	LOC103158848	103158848	1.49	1.09	0.93	1.04	0.35	0.43	72.92	57.65	45.96	49.83	16.56	21.50
protein FAM91A1 pseudogene	LOC103158849	103158849	54.20	54.79	44.77	51.03	32.70	45.18	496.74	527.06	429.76	421.85	319.81	373.87
60S ribosomal protein L32 pseudogene	LOC103158850	103158850	0.12	0.00	0.14	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
RAD52 motif-containing protein 1-like	LOC103158851	103158851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
golgin subfamily A member 6-like protein 1	LOC103158852	103158852	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
HBS1-like protein	LOC103158853	103158853	6.70	6.54	6.53	6.90	8.19	7.68	0.00	0.00	0.00	0.00	0.00	0.00
probable ATP-dependent RNA helicase DDX11	LOC103158854	103158854	1.59	1.87	2.01	1.44	1.39	1.46	171.66	169.28	195.01	158.77	152.14	159.83
uncharacterized LOC103158855	LOC103158855	103158855	0.30	0.36	0.36	0.21	0.12	0.16	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158856	LOC103158856	103158856	34.90	37.79	22.59	27.33	21.20	19.08	341.79	370.59	229.79	264.23	220.45	186.00
nucleoporin SEH1 pseudogene	LOC103158857	103158857	0.16	0.05	0.03	0.00	0.03	0.10	0.76	0.00	0.00	0.00	0.00	0.00
protein EFR3 homolog A-like	LOC103158858	103158858	62.57	57.91	38.95	52.30	43.29	50.73	402.56	393.46	267.05	315.23	280.48	318.72
tyrosine-protein phosphatase non-receptor type substrate 1-like	LOC103158859	103158859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM91A1	LOC103158860	103158860	87.43	92.55	70.22	70.64	80.21	78.74	1291.22	1371.64	983.73	1016.37	1182.99	1143.10
cytochrome c oxidase subunit 7C, mitochondrial	LOC103158861	103158861	128.12	120.84	98.72	43.60	38.16	29.26	506.61	479.48	394.98	203.97	194.58	190.67
ral GTPase-activating protein subunit alpha-1-like	LOC103158863	103158863	3.96	4.98	4.05	5.00	4.05	3.65	0.76	0.92	0.00	0.00	1.03	0.00

uncharacterized LOC103158864	LOC103158864	103158864	45.73	41.71	39.39	45.55	39.75	40.82	308.37	282.75	250.90	238.74	215.28	218.71
uncharacterized LOC103158865	LOC103158865	103158865	7.49	6.19	7.55	6.66	5.03	6.58	1.52	0.00	1.24	0.00	0.00	0.00
PHD finger protein 20-like protein 1	LOC103158866	103158866	12.05	13.59	8.80	9.09	10.78	10.21	226.34	276.34	157.75	178.47	237.01	188.80
keratin, type I cytoskeletal 23-like	LOC103158867	103158867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC103158868	103158868	0.63	1.50	2.26	3.96	3.90	1.01	0.76	2.75	2.48	3.48	2.07	4.67
mdm2-binding protein-like	LOC103158869	103158869	73.70	79.12	45.81	43.40	50.01	54.04	1187.16	1222.48	722.89	679.13	826.95	798.21
DNA-directed RNA polymerase III subunit RPC1-like	LOC103158870	103158870	18.53	17.49	15.98	21.28	21.43	22.17	221.79	215.03	187.56	242.21	246.33	237.41
uncharacterized LOC103158871	LOC103158871	103158871	0.29	0.23	0.16	0.23	0.40	0.12	1.52	0.92	1.24	0.00	1.03	4.67
uncharacterized LOC103158872	LOC103158872	103158872	2.66	1.02	0.95	1.85	1.19	2.02	22.79	10.98	16.15	13.91	22.77	22.43
uncharacterized LOC103158873	LOC103158873	103158873	0.06	0.23	0.42	0.21	0.00	0.65	1.52	1.83	3.73	2.32	4.14	4.67
SET and MYND domain-containing protein 4-like	LOC103158874	103158874	24.70	24.18	26.10	26.67	29.03	31.24	386.61	379.74	390.02	402.15	454.36	456.12
uncharacterized LOC103158875	LOC103158875	103158875	1.93	0.88	0.42	1.35	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158876	LOC103158876	103158876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
kinesin-like protein KIF21A	LOC103158877	103158877	6.76	5.36	6.05	6.37	7.63	6.13	0.00	0.00	0.00	0.00	0.00	0.00
fer-1-like protein 6	LOC103158878	103158878	0.05	0.20	0.09	0.09	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158879	LOC103158879	103158879	0.00	1.14	0.00	0.55	0.00	0.87	72.92	67.71	78.25	57.95	100.39	87.86
uncharacterized LOC103158880	LOC103158880	103158880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription initiation factor TFIID subunit 2-like	LOC103158881	103158881	17.22	18.15	12.92	13.29	14.65	11.71	259.00	285.49	193.77	206.29	211.14	186.00

uncharacterized LOC103158882	LOC103158882	103158882	1.36	0.00	0.00	0.00	0.00	0.00	3.80	0.92	0.00	0.00	0.00	0.00
pre-mRNA-processing-splicing factor 8-like	LOC103158883	103158883	129.78	122.97	126.83	137.26	140.32	150.61	1675.54	1574.77	1710.35	1792.85	1821.58	1972.15
uncharacterized LOC103158885	LOC103158885	103158885	30.40	25.62	22.82	27.64	26.78	28.19	300.02	284.58	255.87	274.66	309.46	282.27
protein EFR3 homolog A-like	LOC103158886	103158886	97.59	95.82	80.87	80.77	83.39	75.26	561.30	569.15	462.06	435.75	477.13	421.54
uncharacterized LOC103158887	LOC103158887	103158887	17.14	15.04	9.83	10.89	12.18	11.12	329.64	287.32	186.31	201.65	238.05	205.63
uncharacterized LOC103158888	LOC103158888	103158888	0.92	1.15	0.61	0.82	1.02	1.04	3.04	8.24	4.97	1.16	4.14	6.54
uncharacterized LOC103158889	LOC103158889	103158889	0.10	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transcription elongation regulator 1-like	LOC103158890	103158890	0.30	0.43	0.29	0.58	0.59	0.53	37.98	43.92	36.02	37.09	50.71	38.32
insulin growth factor-like family member 4	LOC103158891	103158891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158892	LOC103158892	103158892	9.26	7.14	3.47	6.94	7.15	14.08	0.00	0.00	0.00	0.00	0.00	0.00
arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1-like	LOC103158893	103158893	35.88	35.06	24.29	17.82	10.55	11.25	469.40	455.69	329.15	266.55	192.51	214.04
uncharacterized LOC103158894	LOC103158894	103158894	17.45	18.93	27.29	28.66	35.97	34.79	502.81	552.68	803.63	844.85	1018.43	1035.61
uncharacterized LOC103158895	LOC103158895	103158895	10.47	8.81	5.61	4.94	4.86	5.32	95.70	92.42	57.14	52.15	48.64	43.93
ankyrin repeat domain-containing protein 42 pseudogene	LOC103158896	103158896	0.29	0.26	0.59	0.39	0.70	0.54	12.15	11.90	22.36	11.59	16.56	21.50
LETM1 domain-containing protein LETM2, mitochondrial-like	LOC103158897	103158897	2.47	3.16	1.24	0.95	3.03	2.37	30.38	35.69	16.15	15.07	33.12	28.04
uncharacterized LOC103158898	LOC103158898	103158898	0.23	0.14	0.38	0.18	0.24	0.15	9.87	10.07	6.21	8.11	7.24	2.80
uncharacterized LOC103158899	LOC103158899	103158899	263.70	244.68	177.72	164.56	125.09	140.23	3206.77	2956.47	2122.73	1935.40	1504.87	1675.86
microtubule-associated protein tau-like	LOC103158900	103158900	1.43	1.28	0.87	0.49	0.40	0.39	41.02	34.77	24.84	13.91	11.38	11.22

uncharacterized LOC103158901	LOC103158901	103158901	7.88	6.67	1.26	1.08	0.47	1.72	88.11	78.69	13.66	16.22	9.31	18.69
uncharacterized LOC103158902	LOC103158902	103158902	4.40	3.57	2.51	2.87	2.11	2.26	45.57	46.67	26.08	30.13	19.66	25.24
Ig kappa chain V-IV region Len-like	LOC103158903	103158903	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158904	LOC103158904	103158904	19.73	22.53	20.32	19.29	23.81	24.84	105.58	109.80	114.27	82.28	134.55	133.66
ATP-dependent RNA helicase DHX8	LOC103158905	103158905	615.16	643.19	655.97	695.30	616.72	650.71	7778.44	8178.57	8283.48	8490.25	7611.29	8083.96
uncharacterized LOC103158906	LOC103158906	103158906	25.79	23.47	17.40	17.66	17.30	17.61	824.10	760.39	561.42	559.76	527.84	551.46
gasdermin-A	LOC103158907	103158907	3.53	3.01	1.39	1.40	0.59	0.65	67.60	54.90	23.60	23.18	12.42	11.22
protein N-terminal glutamine amidohydrolase	LOC103158908	103158908	29.18	21.36	0.00	8.63	23.65	13.18	25.06	24.71	6.21	11.59	11.38	12.15
hepatocyte growth factor-regulated tyrosine kinase substrate-like	LOC103158909	103158909	36.52	33.35	18.73	16.43	13.82	15.39	12.91	9.15	1.24	3.48	2.07	1.87
26S proteasome non-ATPase regulatory subunit 13-like	LOC103158910	103158910	60.15	57.96	65.90	64.72	64.75	78.57	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158911	LOC103158911	103158911	9.88	9.38	9.18	9.48	10.26	9.58	0.76	0.92	0.00	3.48	0.00	0.00
pre-mRNA-processing-splicing factor 8-like	LOC103158912	103158912	90.63	89.43	89.55	92.74	98.26	105.50	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158913	LOC103158913	103158913	193.18	192.48	226.67	258.30	314.54	280.35	3203.74	3162.36	3590.87	4118.80	5097.31	4567.73
WNT1-inducible-signaling pathway protein 1 pseudogene	LOC103158914	103158914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel subfamily M member 8-like	LOC103158915	103158915	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158916	LOC103158916	103158916	35.20	43.42	50.63	55.19	49.89	30.55	116.97	122.61	134.15	126.32	109.71	103.75
pre-mRNA-processing-splicing factor 8-like	LOC103158917	103158917	112.20	111.84	110.38	119.46	111.09	119.73	1681.62	1700.13	1669.36	1857.75	1685.99	1821.67
uncharacterized LOC103158918	LOC103158918	103158918	4.63	4.46	5.14	5.73	5.69	5.58	0.00	0.00	0.00	0.00	0.00	0.00

zinc finger protein 120-like	LOC103158919	103158919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158920	LOC103158920	103158920	43.27	38.63	31.90	29.78	36.22	50.05	296.22	319.35	245.93	241.06	305.32	292.55
E3 SUMO-protein ligase NSE2 pseudogene	LOC103158921	103158921	154.20	158.55	148.84	154.73	154.76	155.32	189.88	206.80	157.75	156.45	176.98	162.63
lysine-specific demethylase 2A-like	LOC103158922	103158922	8.42	7.71	9.55	7.97	5.86	5.94	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158923	LOC103158923	103158923	0.00	0.00	0.00	0.00	0.00	0.00	6.08	4.58	2.48	4.64	2.07	5.61
uncharacterized LOC103158924	LOC103158924	103158924	5.36	5.59	4.80	4.45	6.33	8.02	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158925	LOC103158925	103158925	1.49	1.79	1.34	1.42	0.33	0.54	31.90	33.86	26.08	26.66	6.21	12.15
UPF0378 protein KIAA0100-like	LOC103158926	103158926	98.28	96.20	100.63	102.40	98.31	106.42	933.47	948.89	960.13	959.59	959.43	1003.84
60S ribosomal protein L22 pseudogene	LOC103158927	103158927	2162.33	2339.92	2220.85	2476.27	2634.42	2109.74	1.52	2.75	1.24	2.32	4.14	5.61
putative UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase LOC402377	LOC103158928	103158928	3.79	5.24	6.86	7.91	6.22	5.85	20.51	16.47	33.54	24.34	21.73	24.30
KAT8 regulatory NSL complex subunit 1 pseudogene	LOC103158929	103158929	167.84	164.87	176.57	184.77	159.19	166.40	7040.93	6949.68	7422.71	7658.14	6658.07	6912.82
membrane-spanning 4-domains subfamily A member 6D-like	LOC103158930	103158930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor SPT6-like	LOC103158931	103158931	31.75	32.78	34.14	35.54	34.89	38.68	0.00	0.00	0.00	0.00	0.00	0.00
interleukin-1 family member 10-like	LOC103158932	103158932	0.00	0.00	0.69	0.72	0.00	0.00	4.56	1.83	6.21	4.64	9.31	3.74
uncharacterized LOC103158933	LOC103158933	103158933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PHD finger protein 20-like protein 1	LOC103158934	103158934	3.87	3.33	2.68	2.90	2.63	2.87	137.48	122.61	93.16	101.98	92.11	99.07
uncharacterized LOC103158935	LOC103158935	103158935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC103158936	103158936	0.00	0.05	0.00	0.00	0.09	0.00	0.00	0.92	0.00	0.00	1.03	0.00

signal transducer and activator of transcription 5A-like	LOC103158937	103158937	7.45	6.56	4.62	2.42	1.32	1.67	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158938	LOC103158938	103158938	80.16	75.93	69.26	56.29	65.52	70.04	330.40	319.35	275.74	215.56	257.71	277.60
uncharacterized LOC103158939	LOC103158939	103158939	4.96	4.20	5.01	5.48	6.85	6.18	198.24	176.60	190.04	216.72	258.75	256.10
uncharacterized LOC103158940	LOC103158940	103158940	1.10	1.32	1.98	0.00	0.00	0.00	2.28	2.75	4.97	0.00	1.03	0.93
zona pellucida-binding protein 2-like	LOC103158941	103158941	5.16	5.74	3.09	3.23	3.34	3.44	0.00	0.00	0.00	0.00	0.00	0.00
translation factor Guf1, mitochondrial-like	LOC103158942	103158942	8.60	9.25	10.99	9.16	9.45	8.97	22.79	31.11	39.75	24.34	21.73	23.37
zinc finger protein ZFAT pseudogene	LOC103158943	103158943	4.93	3.41	2.40	2.87	1.21	1.74	70.64	51.24	40.99	39.40	18.63	25.24
mitochondrial import receptor subunit TOM5 homolog	LOC103158944	103158944	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158945	LOC103158945	103158945	57.32	55.58	61.07	58.99	51.16	64.37	100.26	131.76	141.60	121.69	104.53	135.53
uncharacterized LOC103158946	LOC103158946	103158946	29.25	24.54	23.09	23.34	15.02	16.71	7.60	2.75	1.24	2.32	1.03	1.87
uncharacterized LOC103158947	LOC103158947	103158947	4.96	2.70	4.72	4.78	2.84	2.86	0.76	0.00	0.00	1.16	0.00	0.93
U3 small nucleolar RNA-associated protein 14 homolog A	LOC103158948	103158948	4.33	4.15	4.06	3.82	3.47	3.42	37.98	38.43	29.81	37.09	36.22	35.52
spermatogenesis-associated protein 31D1-like	LOC103158949	103158949	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coronin-1A	LOC103158950	103158950	0.31	0.00	0.14	0.10	0.09	0.22	10.63	2.75	3.73	6.95	7.24	9.35
thymosin beta-10 pseudogene	LOC103158951	103158951	1.62	1.83	0.97	0.89	1.14	0.92	5.32	8.24	8.69	6.95	6.21	8.41
putative PRAME family member 26	LOC103158952	103158952	0.09	0.39	0.00	0.36	0.19	0.06	1.52	7.32	0.00	5.79	3.10	0.93
transforming acidic coiled-coil-containing protein 2-like	LOC103158953	103158953	13.82	11.37	10.36	10.59	6.85	5.99	159.50	138.17	127.93	121.69	81.76	80.38
SH3 domain-containing protein C23A1.17-like	LOC103158954	103158954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103158955	LOC103158955	103158955	2.42	2.07	1.54	1.43	1.43	1.42	22.03	20.13	19.87	15.07	26.91	18.69
uncharacterized LOC103158956	LOC103158956	103158956	83.11	76.39	79.88	81.80	80.41	85.99	1048.16	980.00	1004.85	1001.31	995.66	1032.81
rab5 GDP/GTP exchange factor	LOC103158957	103158957	11.87	11.12	11.72	8.00	11.36	9.25	132.92	134.51	140.36	114.73	109.71	102.81
Ig kappa chain V-I region HK102-like	LOC103158958	103158958	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103158959	LOC103158959	103158959	0.40	0.30	0.41	0.72	0.90	1.26	7.60	6.41	8.69	13.91	19.66	21.50
anaphase-promoting complex subunit 2-like	LOC103158960	103158960	5.40	5.34	4.80	5.46	6.97	7.70	1.52	2.75	1.24	2.32	0.00	2.80
neutrophil antibiotic peptide NP-2-like	LOC103158961	103158961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc fingers and homeoboxes protein 1, isoform 2-like	LOC103158962	103158962	54.91	52.43	44.13	43.08	38.35	40.76	1139.31	1060.52	903.00	876.14	765.89	864.57
pre-mRNA-processing-splicing factor 8-like	LOC103158963	103158963	101.47	100.17	101.74	105.50	112.41	103.18	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-processing-splicing factor 8-like	LOC103158964	103158964	91.94	83.96	87.40	88.88	99.84	95.36	0.00	0.00	0.00	0.00	0.00	0.00
ATP-dependent RNA helicase DDX19A-like	LOC103158965	103158965	27.48	28.52	30.63	30.02	25.68	23.11	0.00	0.00	0.00	0.00	0.00	0.00
rap guanine nucleotide exchange factor 2-like	LOC103158966	103158966	9.74	10.59	12.31	11.41	10.36	9.33	104.06	108.89	122.97	120.53	129.37	96.27
uncharacterized LOC103158967	LOC103158967	103158967	12.54	7.47	7.11	11.89	3.70	7.79	0.00	2.75	0.00	1.16	1.03	0.00
vomeronasal type-1 receptor 2-like	LOC103158968	103158968	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis-associated protein 31C2-like	LOC103158969	103158969	0.05	0.14	0.04	0.05	0.03	0.03	1.52	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103158970	LOC103158970	103158970	0.42	1.01	0.00	0.00	0.00	1.30	3.04	1.83	6.21	3.48	2.07	2.80
uncharacterized protein CXorf67-like	LOC103158971	103158971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger CCHC domain-containing protein 7-like	LOC103158972	103158972	0.63	0.73	0.81	1.25	1.33	1.79	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103158973	LOC103158973	103158973	0.62	0.66	0.51	0.55	1.29	1.07	33.42	40.26	18.63	23.18	39.33	51.41
endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase-like	LOC103158974	103158974	10.25	12.95	10.04	13.62	12.07	12.15	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158975	LOC103158975	103158975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rap guanine nucleotide exchange factor 1-like	LOC103158976	103158976	17.70	14.92	15.15	10.76	7.82	6.82	1.52	2.75	0.00	0.00	1.03	0.00
melanophilin-like	LOC103158977	103158977	1.19	0.96	1.01	2.35	1.13	0.53	9.11	5.49	7.45	10.43	4.14	3.74
uncharacterized LOC103158978	LOC103158978	103158978	11.31	33.20	16.29	8.23	4.38	3.61	11.39	20.13	1.24	8.11	6.21	5.61
uncharacterized LOC103158979	LOC103158979	103158979	14.49	17.57	19.73	16.62	12.43	13.73	2.28	0.00	0.00	0.00	2.07	0.00
uncharacterized LOC103158980	LOC103158980	103158980	15.15	13.01	13.10	15.13	14.80	15.16	103.30	99.74	96.88	104.30	99.36	110.29
GTPase Era, mitochondrial-like	LOC103158981	103158981	2.45	2.35	1.78	0.81	0.54	0.42	4.56	2.75	2.48	2.32	2.07	0.00
serine hydrolase-like protein	LOC103158982	103158982	1.75	1.43	2.98	2.61	3.10	2.98	3.80	6.41	2.48	4.64	6.21	7.48
uncharacterized protein C2orf78 homolog	LOC103158983	103158983	0.10	0.24	0.34	0.00	0.00	0.00	1.52	2.75	2.48	0.00	0.00	1.87
starch-binding domain-containing protein 1-like	LOC103158984	103158984	15.00	15.65	16.15	17.03	8.63	8.70	194.44	177.52	178.86	193.54	95.22	107.49
striated muscle-specific serine/threonine-protein kinase-like	LOC103158985	103158985	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin gamma-1 chain-like	LOC103158986	103158986	14.26	15.83	11.59	8.26	4.57	4.61	0.00	0.00	0.00	1.16	0.00	0.00
trypsin inhibitor CITI-1-like	LOC103158987	103158987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH-cytochrome b5 reductase 3-like	LOC103158988	103158988	61.10	59.39	53.60	59.46	57.43	67.33	3.04	3.66	4.97	2.32	1.03	0.00
uroplakin-3a	LOC103158989	103158989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 258 pseudogene	LOC103158990	103158990	1.12	1.21	1.47	0.41	0.71	0.97	7.60	11.90	11.18	8.11	4.14	7.48

protein YIPF3-like	LOC103158991	103158991	22.82	20.83	25.31	20.02	11.42	10.82	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158992	LOC103158992	103158992	3.93	4.26	4.07	3.86	5.86	3.75	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA synthetase family member 4 pseudogene	LOC103158993	103158993	8.43	7.75	5.32	6.37	8.27	7.19	148.11	140.00	94.40	110.10	143.86	128.05
ETS translocation variant 4-like	LOC103158994	103158994	70.85	71.71	49.57	38.97	20.32	18.16	1087.66	1099.87	838.41	574.82	313.60	277.60
ATP-dependent RNA helicase DHX8-like	LOC103158995	103158995	245.65	256.83	266.92	291.66	322.88	312.53	2205.70	2316.86	2355.00	2513.70	2834.83	2732.97
alpha-defensin 23-like	LOC103158996	103158996	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158997	LOC103158997	103158997	5.89	3.24	7.55	2.02	3.20	0.79	21.27	18.30	21.12	12.75	15.52	14.02
protein FAM63A-like	LOC103158998	103158998	4.63	3.80	5.16	5.83	5.41	5.33	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103158999	LOC103158999	103158999	29.40	27.04	28.84	15.29	10.07	10.19	442.81	392.55	375.11	232.94	167.67	180.39
E3 SUMO-protein ligase NSE2	LOC103159000	103159000	63.70	77.12	46.15	48.06	45.94	44.31	275.71	349.54	219.85	219.04	168.70	178.52
phenylalanine--tRNA ligase beta subunit-like	LOC103159001	103159001	35.21	35.06	29.22	35.25	36.42	37.35	4.56	4.58	1.24	3.48	1.03	0.00
uncharacterized LOC103159002	LOC103159002	103159002	0.65	0.65	0.72	1.05	0.53	1.04	0.00	0.00	0.00	0.00	0.00	0.00
brain-specific angiogenesis inhibitor 2-like	LOC103159003	103159003	0.48	0.29	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
E3 ubiquitin-protein ligase RNF168-like	LOC103159004	103159004	0.08	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103159005	LOC103159005	103159005	54.72	60.15	29.55	35.70	45.20	39.94	339.51	374.25	233.51	272.35	281.52	286.01
signal-regulatory protein gamma-like	LOC103159006	103159006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159007	LOC103159007	103159007	1.74	2.54	4.84	1.88	3.83	4.16	17.47	13.73	21.12	23.18	15.52	20.56
starch-binding domain-containing protein 1 pseudogene	LOC103159008	103159008	11.60	12.52	13.39	12.68	4.99	5.37	0.00	0.00	0.00	0.00	0.00	0.00

ras-related protein Rab-13-like	LOC103159009	103159009	1.63	1.30	1.26	1.35	1.37	1.80	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103159010	LOC103159010	103159010	4.54	2.43	2.16	2.14	1.82	4.59	31.90	25.62	19.87	15.07	18.63	28.97
40S ribosomal protein S6 pseudogene	LOC103159011	103159011	16.14	22.66	21.55	17.22	22.17	9.94	62.28	69.54	50.93	46.36	75.55	37.39
cytohesin-1-like	LOC103159012	103159012	1.89	2.09	1.75	2.02	1.60	2.28	2.28	0.00	0.00	2.32	0.00	0.00
zinc finger protein 844-like	LOC103159013	103159013	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
up-regulated during skeletal muscle growth protein 5 pseudogene	LOC103159014	103159014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159015	LOC103159015	103159015	1.85	1.76	1.59	0.82	0.63	1.01	3.04	2.75	2.48	3.48	1.03	5.61
uncharacterized LOC103159016	LOC103159016	103159016	1.30	1.51	0.84	0.87	1.88	1.18	0.76	1.83	0.00	0.00	1.03	0.00
uncharacterized protein C2orf78 homolog	LOC103159017	103159017	0.81	0.46	0.37	0.28	0.25	0.45	13.67	8.24	6.21	4.64	4.14	7.48
heat shock protein HSP 90-beta pseudogene	LOC103159018	103159018	1.96	2.91	1.70	1.67	1.97	2.04	957.02	1041.31	1009.82	683.76	341.55	418.73
uncharacterized LOC103159019	LOC103159019	103159019	7.20	5.27	4.21	5.62	6.47	8.39	0.00	0.92	0.00	0.00	1.03	0.93
proto-oncogene FRAT1-like	LOC103159020	103159020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159021	LOC103159021	103159021	45.50	37.22	42.96	48.29	36.76	47.81	245.33	202.22	192.52	241.06	261.85	278.53
zinc finger protein 14-like	LOC103159022	103159022	20.03	20.88	18.55	20.51	22.90	22.17	442.81	462.09	409.89	451.98	515.42	468.27
zinc finger protein 120-like	LOC103159023	103159023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159025	LOC103159025	103159025	0.00	0.00	0.00	0.00	0.00	0.00	9.87	17.39	9.94	10.43	15.52	16.82
zinc finger protein 781-like	LOC103159026	103159026	1.19	0.47	1.55	1.38	2.08	1.23	18.23	11.90	22.36	19.70	30.01	23.37
uncharacterized LOC103159027	LOC103159027	103159027	39.91	39.56	46.72	35.66	24.84	27.24	6.84	7.32	11.18	3.48	3.10	5.61

C-type lectin domain family 2 member E-like	LOC103159028	103159028	23.52	29.93	20.23	27.85	30.14	26.33	61.52	70.46	54.65	66.06	76.59	64.49
matrix metalloproteinase-23-like	LOC103159029	103159029	3.86	3.59	3.81	3.70	2.72	3.63	3.80	2.75	0.00	4.64	1.03	2.80
integrin alpha-D-like	LOC103159030	103159030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC103159031	103159031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
androgen-binding protein homolog	LOC103159032	103159032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159033	LOC103159033	103159033	1.16	0.96	0.96	0.57	0.40	0.46	28.86	25.62	18.63	15.07	10.35	12.15
uncharacterized LOC103159034	LOC103159034	103159034	5.27	6.32	6.13	7.16	3.11	4.22	0.00	0.00	0.00	0.00	0.00	0.00
speckle-type POZ protein-like	LOC103159035	103159035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alkaline phosphatase, placental-like	LOC103159036	103159036	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
coiled-coil domain-containing protein 150 pseudogene	LOC103159037	103159037	1.17	0.75	1.03	1.31	0.67	0.61	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159038	LOC103159038	103159038	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.92	0.00	0.00	0.00	1.87
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9 pseudogene	LOC103159039	103159039	298.26	308.66	207.69	221.51	205.56	191.07	814.99	836.34	537.82	523.83	528.88	469.20
zinc finger protein 764-like	LOC103159040	103159040	2.42	3.89	0.00	1.61	0.00	2.48	4.56	7.32	6.21	9.27	1.03	6.54
28S ribosomal protein S18a, mitochondrial-like	LOC103159041	103159041	31.95	31.77	24.85	8.22	3.40	4.13	445.85	431.90	337.85	101.98	48.64	55.15
uncharacterized LOC103159042	LOC103159042	103159042	14.31	16.79	13.77	11.52	12.57	13.30	1.52	1.83	0.00	1.16	1.03	0.93
DNA-directed RNA polymerase II subunit RPB2-like	LOC103159043	103159043	12.04	11.06	10.22	14.25	13.66	12.87	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC103159044	103159044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein regulator of cytokinesis 1-like	LOC103159045	103159045	47.76	47.02	37.98	49.17	52.57	48.89	1.52	0.00	4.97	1.16	2.07	3.74

antigen-presenting glycoprotein CD1d2 pseudogene	LOC103159046	103159046	0.92	0.78	0.41	0.25	0.48	0.59	2.28	2.75	1.24	0.00	1.03	2.80
src-like-adapter	LOC103159047	103159047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal hydrolase 17-like protein A	LOC103159048	103159048	0.00	0.06	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
small nuclear ribonucleoprotein F-like	LOC103159049	103159049	0.40	1.93	2.08	0.00	0.00	0.00	1.52	6.41	3.73	0.00	0.00	0.00
uncharacterized LOC103159050	LOC103159050	103159050	40.07	0.00	0.00	0.00	0.00	0.00	0.76	1.83	9.94	6.95	2.07	0.93
zinc finger protein 124-like	LOC103159051	103159051	7.16	7.01	6.11	5.75	5.14	4.00	63.04	63.14	55.89	42.88	38.29	42.99
uncharacterized LOC103159052	LOC103159052	103159052	183.65	224.77	93.48	160.54	184.53	91.97	10.63	3.66	6.21	5.79	4.14	8.41
ras-like protein	LOC103159053	103159053	1.08	0.69	0.87	0.11	0.46	0.59	0.00	0.92	2.48	0.00	0.00	0.00
zinc finger protein 688-like	LOC103159054	103159054	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159055	LOC103159055	103159055	0.00	0.00	0.00	0.00	3005.74	0.00	26.58	28.37	29.81	28.97	24.84	15.89
DCN1-like protein 3	LOC103159056	103159056	4.77	2.55	3.84	3.51	2.77	2.45	15.19	11.90	14.91	13.91	10.35	9.35
uncharacterized LOC103159057	LOC103159057	103159057	105.32	93.46	127.53	89.19	57.35	78.57	271.92	209.54	279.47	223.67	155.25	191.61
uncharacterized LOC103159058	LOC103159058	103159058	6.92	39.84	13.09	17.79	34.57	41.36	3.80	13.73	3.73	4.64	7.24	7.48
interferon-induced transmembrane protein 2-like	LOC103159059	103159059	50.27	45.51	47.91	45.73	41.62	43.39	25.06	14.64	16.15	9.27	13.45	8.41
uncharacterized LOC103159060	LOC103159060	103159060	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysozyme C-2-like	LOC103159061	103159061	0.00	0.00	0.94	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cAMP-regulated phosphoprotein 19-like	LOC103159062	103159062	68.39	59.31	66.14	71.12	56.90	61.38	1.52	1.83	2.48	4.64	3.10	0.00
uncharacterized LOC103159063	LOC103159063	103159063	180.34	144.94	195.48	166.73	45.33	85.87	36.46	26.54	18.63	12.75	10.35	8.41

UPF0554 protein C2orf43 homolog	LOC103159064	103159064	6.62	2.57	8.17	0.00	0.00	4.05	0.00	0.92	0.00	0.00	0.00	0.00
multidrug resistance protein 1 pseudogene	LOC103159065	103159065	11.90	16.11	11.15	14.02	16.91	13.60	0.00	0.00	0.00	0.00	0.00	0.00
putative uncharacterized protein	LOC103159066	103159066	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hemoglobin subunit alpha pseudogene	LOC103159067	103159067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
late cornified envelope protein 1F-like	LOC103159070	103159070	2.91	2.46	1.89	2.43	2.36	2.89	132.16	109.80	100.61	100.83	115.92	143.00
uncharacterized LOC103159087	LOC103159087	103159087	0.08	0.19	0.27	0.26	0.45	0.20	3.04	3.66	3.73	3.48	5.17	4.67
RNA-binding protein 47	LOC103159091	103159091	0.29	0.21	0.22	0.23	0.19	0.27	31.14	20.13	24.84	24.34	19.66	32.71
uncharacterized LOC103159102	LOC103159102	103159102	18.59	17.26	0.13	0.05	0.02	0.02	1368.69	1300.26	7.45	2.32	1.03	0.93
uncharacterized LOC103159135	LOC103159135	103159135	3.07	3.81	2.61	2.37	3.38	3.04	145.07	157.39	109.30	85.76	141.79	131.79
uncharacterized LOC103159136	LOC103159136	103159136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159143	LOC103159143	103159143	0.38	0.66	0.27	0.62	0.65	0.57	10.63	13.73	14.91	10.43	11.38	11.22
uncharacterized LOC103159145	LOC103159145	103159145	34.24	34.18	26.98	22.98	18.72	17.08	344.83	346.80	231.03	146.02	92.11	89.73
uncharacterized LOC103159149	LOC103159149	103159149	0.08	0.08	0.03	0.00	0.02	0.02	3.80	3.66	1.24	0.00	1.03	0.93
uncharacterized LOC103159150	LOC103159150	103159150	0.56	0.50	0.38	0.54	0.93	0.54	19.75	16.47	11.18	15.07	28.98	14.02
nuclear receptor coactivator 4-like	LOC103159154	103159154	0.59	0.64	0.64	0.54	0.50	0.41	9.11	3.66	8.69	4.64	6.21	1.87
uncharacterized LOC103159158	LOC103159158	103159158	1.11	0.93	0.85	2.05	1.44	2.29	13.67	14.64	19.87	27.81	34.15	27.11
60S ribosomal protein L30-like	LOC103159160	103159160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159164	LOC103159164	103159164	0.92	0.98	1.85	1.53	1.81	1.89	53.17	56.73	109.30	89.24	91.08	111.23

uncharacterized LOC103159165	LOC103159165	103159165	6.18	5.97	5.51	6.27	6.91	6.84	182.29	173.86	172.65	188.90	220.45	214.04
uncharacterized LOC103159166	LOC103159166	103159166	0.05	0.06	0.16	0.00	0.14	0.12	0.00	3.66	0.00	2.32	2.07	2.80
protein kinase C zeta type-like	LOC103159171	103159171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159176	LOC103159176	103159176	0.00	0.00	0.00	0.00	0.13	0.06	0.76	0.92	1.24	0.00	3.10	3.74
uncharacterized LOC103159177	LOC103159177	103159177	1.54	0.43	0.69	3.04	2.33	2.40	6.08	7.32	7.45	10.43	9.31	8.41
40S ribosomal protein S2 pseudogene	LOC103159180	103159180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L13a pseudogene	LOC103159181	103159181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159184	LOC103159184	103159184	0.38	0.00	0.32	0.00	0.13	0.12	3.04	0.92	3.73	3.48	1.03	0.93
uncharacterized LOC103159185	LOC103159185	103159185	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159188	LOC103159188	103159188	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103159189	LOC103159189	103159189	0.83	0.92	0.39	0.47	0.60	0.46	32.66	32.03	14.91	18.54	22.77	17.76
uncharacterized LOC103159192	LOC103159192	103159192	0.20	0.24	0.17	0.00	0.00	0.00	1.52	4.58	1.24	0.00	0.00	0.93
uncharacterized LOC103159193	LOC103159193	103159193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159200	LOC103159200	103159200	0.12	0.12	0.00	0.00	0.00	0.00	6.84	5.49	0.00	0.00	0.00	0.00
uncharacterized LOC103159201	LOC103159201	103159201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159202	LOC103159202	103159202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mimitin, mitochondrial pseudogene	LOC103159203	103159203	0.14	0.38	0.58	0.11	0.29	0.27	1.52	3.66	6.21	0.00	3.10	2.80
ubiquitin-conjugating enzyme E2 variant 1 pseudogene	LOC103159204	103159204	0.84	0.43	0.40	0.39	0.34	0.62	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103159207	LOC103159207	103159207	0.19	0.21	0.27	0.31	0.47	0.25	17.47	25.62	26.08	32.45	46.57	25.24
uncharacterized LOC103159208	LOC103159208	103159208	0.18	0.18	0.06	0.43	0.29	0.26	9.11	11.90	4.97	20.86	15.52	17.76
uncharacterized LOC103159210	LOC103159210	103159210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159211	LOC103159211	103159211	0.72	0.66	0.31	0.00	0.00	0.00	8.35	5.49	8.69	1.16	4.14	0.93
uncharacterized LOC103159213	LOC103159213	103159213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159214	LOC103159214	103159214	1.68	2.59	1.80	1.01	2.17	2.00	18.23	34.77	9.94	13.91	16.56	24.30
uncharacterized LOC103159216	LOC103159216	103159216	228.61	150.70	175.34	109.66	229.28	266.16	34.18	27.45	24.84	17.38	28.98	26.17
uncharacterized LOC103159223	LOC103159223	103159223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159224	LOC103159224	103159224	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
chromosome unknown open reading frame, human C12orf76	LOC103159225	103159225	20.09	19.19	20.90	20.41	24.53	24.45	816.50	782.35	853.31	822.83	986.34	988.88
cyclin-dependent kinases regulatory subunit 1 pseudogene	LOC103159226	103159226	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S26-like	LOC103159227	103159227	0.08	0.00	0.00	0.25	0.11	0.40	3.04	1.83	1.24	3.48	4.14	5.61
uncharacterized LOC103159228	LOC103159228	103159228	0.42	0.43	0.22	0.21	0.15	0.21	34.18	33.86	17.39	15.07	12.42	14.95
reactive oxygen species modulator 1 pseudogene	LOC103159229	103159229	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
uncharacterized LOC103159230	LOC103159230	103159230	14.61	17.04	12.85	9.93	10.43	10.45	222.54	247.97	187.56	149.50	159.39	151.42
vinexin-like	LOC103159234	103159234	0.00	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	3.74
uncharacterized LOC103159236	LOC103159236	103159236	1.67	0.68	0.31	0.15	0.39	0.44	23.55	13.73	8.69	3.48	5.17	4.67
ankyrin repeat domain-containing protein 50-like	LOC103159238	103159238	0.05	0.01	0.00	0.04	0.13	0.18	1.52	0.00	0.00	0.00	5.17	5.61

40S ribosomal protein S24-like	LOC103159240	103159240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159241	LOC103159241	103159241	0.13	0.23	0.32	0.30	0.18	0.40	4.56	9.15	6.21	10.43	9.31	9.35
40S ribosomal protein S20 pseudogene	LOC103159243	103159243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159244	LOC103159244	103159244	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159250	LOC103159250	103159250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159251	LOC103159251	103159251	0.13	0.19	0.10	0.11	0.11	0.04	18.23	19.22	13.66	15.07	16.56	9.35
uncharacterized LOC103159255	LOC103159255	103159255	0.00	0.78	0.00	0.37	0.00	0.00	1.52	2.75	0.00	2.32	2.07	3.74
solute carrier organic anion transporter family member 6A1-like	LOC103159257	103159257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
voltage-dependent anion-selective channel protein 1 pseudogene	LOC103159258	103159258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159259	LOC103159259	103159259	0.47	0.31	0.34	0.19	0.38	0.73	3.80	3.66	4.97	1.16	6.21	7.48
uncharacterized LOC103159260	LOC103159260	103159260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159262	LOC103159262	103159262	0.99	0.82	0.20	0.97	0.86	0.23	22.79	21.05	13.66	19.70	17.59	11.22
uncharacterized LOC103159263	LOC103159263	103159263	1.05	0.93	0.75	0.77	0.88	0.76	63.04	63.14	57.14	48.67	61.06	53.28
uncharacterized LOC103159264	LOC103159264	103159264	0.00	0.00	0.04	0.00	0.00	0.00	4.56	2.75	3.73	2.32	4.14	3.74
transmembrane protein 144 pseudogene	LOC103159265	103159265	0.81	0.90	0.52	0.78	0.91	0.84	93.42	98.82	59.62	85.76	104.53	95.34
growth arrest and DNA damage-inducible protein GADD45 alpha	LOC103159266	103159266	550.15	619.02	684.34	698.07	668.27	625.82	9422.08	10544.85	11613.51	11626.28	11121.96	10455.22
uncharacterized LOC103159267	LOC103159267	103159267	1.43	1.22	1.42	1.64	1.58	1.34	60.76	58.56	62.10	81.12	78.66	64.49
ATP synthase subunit g, mitochondrial pseudogene	LOC103159268	103159268	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103159269	LOC103159269	103159269	2.70	2.82	2.34	3.37	2.84	3.23	96.46	91.50	101.85	115.89	106.60	118.70
uncharacterized LOC103159272	LOC103159272	103159272	0.41	0.76	0.69	0.64	0.87	0.98	16.71	21.05	17.39	24.34	19.66	35.52
uncharacterized LOC103159273	LOC103159273	103159273	0.22	0.26	0.23	0.56	0.64	0.40	9.11	10.07	7.45	10.43	10.35	9.35
CLK4-associating serine/arginine rich protein-like	LOC103159292	103159292	1.55	1.62	1.24	1.30	0.99	0.63	44.05	35.69	36.02	40.56	26.91	21.50
flocculation protein FLO11-like	LOC103159309	103159309	4.62	4.96	5.74	6.26	6.82	6.28	840.05	902.22	1052.05	1149.65	1237.84	1156.19
speckle-type POZ protein pseudogene	LOC103159311	103159311	0.03	0.02	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.87
uncharacterized LOC103159314	LOC103159314	103159314	1.40	0.89	0.36	0.70	1.02	0.65	18.99	10.98	7.45	11.59	10.35	10.28
ly-6/neurotoxin-like protein 1	LOC103159315	103159315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159318	LOC103159318	103159318	2.90	3.88	2.51	2.81	0.85	3.61	0.76	0.92	1.24	1.16	3.10	2.80
uncharacterized LOC103159319	LOC103159319	103159319	3.04	5.37	2.77	4.36	3.05	3.62	5.32	17.39	6.21	6.95	5.17	4.67
uncharacterized LOC103159320	LOC103159320	103159320	6.21	6.65	6.03	6.48	10.29	10.06	172.42	177.52	160.23	176.16	265.99	264.51
uncharacterized LOC103159327	LOC103159327	103159327	0.35	0.28	0.44	0.26	0.58	0.31	15.95	13.73	23.60	13.91	27.94	14.02
uncharacterized LOC103159336	LOC103159336	103159336	0.83	1.63	0.00	0.00	0.00	0.00	35.70	52.16	0.00	0.00	0.00	0.00
uncharacterized LOC103159339	LOC103159339	103159339	0.13	0.15	0.00	0.00	0.00	0.00	3.04	2.75	1.24	0.00	0.00	0.00
uncharacterized LOC103159349	LOC103159349	103159349	1.04	1.44	1.08	1.39	1.81	1.78	113.17	140.00	120.48	140.23	185.26	185.06
uncharacterized LOC103159353	LOC103159353	103159353	2.06	3.43	2.16	3.16	0.00	0.67	26.58	26.54	36.02	30.13	0.00	2.80
cytosolic 5'-nucleotidase 3A pseudogene	LOC103159355	103159355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159356	LOC103159356	103159356	2.09	1.59	1.32	1.24	2.27	2.19	94.94	93.33	53.41	70.69	103.50	99.07

uncharacterized LOC103159357	LOC103159357	103159357	1.01	1.01	0.51	0.63	0.86	0.74	60.00	55.82	23.60	35.93	48.64	46.73
uncharacterized LOC103159358	LOC103159358	103159358	104.25	99.28	84.43	92.81	88.04	92.40	6012.51	5944.97	5416.74	5880.36	5796.96	5853.84
signal transducer CD24-like	LOC103159359	103159359	0.16	0.40	0.00	0.00	0.14	0.07	7.60	17.39	0.00	0.00	5.17	1.87
uncharacterized LOC103159361	LOC103159361	103159361	6.52	3.41	1.78	1.72	1.78	1.74	109.37	81.44	37.26	28.97	42.43	39.26
protein transport protein Sec61 subunit gamma pseudogene	LOC103159362	103159362	0.21	0.00	0.12	0.11	0.20	0.44	3.80	3.66	2.48	1.16	3.10	4.67
TP53-regulated inhibitor of apoptosis 1 pseudogene	LOC103159364	103159364	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
forkhead box C1-B-like	LOC103159378	103159378	0.43	0.39	0.57	0.38	0.00	0.13	12.15	11.90	16.15	10.43	1.03	3.74
uncharacterized LOC103159379	LOC103159379	103159379	0.24	0.28	0.26	0.35	0.30	0.46	15.19	17.39	17.39	18.54	20.70	39.26
ankyrin-1-like	LOC103159380	103159380	0.45	0.40	0.05	0.02	0.12	0.18	29.62	31.11	3.73	3.48	6.21	12.15
uncharacterized LOC103159381	LOC103159381	103159381	1.25	1.20	0.87	1.13	0.66	1.29	55.45	53.07	44.72	55.63	52.78	55.15
uncharacterized LOC103159383	LOC103159383	103159383	0.38	0.25	0.42	0.33	0.47	0.42	12.15	8.24	7.45	6.95	14.49	14.95
transcription initiation factor TFIID subunit 13-like	LOC103159386	103159386	0.00	0.03	0.08	0.07	0.07	0.09	0.76	0.92	2.48	2.32	2.07	2.80
uncharacterized LOC103159387	LOC103159387	103159387	2.94	2.91	2.52	2.70	3.46	3.95	79.75	67.71	69.56	77.65	75.55	108.42
uncharacterized LOC103159388	LOC103159388	103159388	0.29	0.19	0.23	0.00	0.39	0.00	12.91	21.05	8.69	9.27	12.42	8.41
transcription factor BTF3 pseudogene	LOC103159389	103159389	1.55	0.64	1.27	0.15	0.50	1.01	9.87	10.07	12.42	2.32	5.17	7.48
uncharacterized LOC103159390	LOC103159390	103159390	0.00	0.00	0.00	0.00	0.00	0.00	4.56	2.75	0.00	3.48	7.24	1.87
cytochrome c-like	LOC103159391	103159391	0.00	0.00	0.23	0.00	0.20	0.00	1.52	0.00	1.24	4.64	4.14	0.00
40S ribosomal protein SA-like	LOC103159392	103159392	0.05	0.00	0.00	0.07	0.00	0.00	0.76	0.00	1.24	1.16	1.03	2.80

40S ribosomal protein S29 pseudogene	LOC103159393	103159393	0.38	0.47	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	1.87
U1 small nuclear ribonucleoprotein C pseudogene	LOC103159397	103159397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H2A-Bbd type 1	LOC103159401	103159401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM47E-like	LOC103159402	103159402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159403	LOC103159403	103159403	0.00	0.00	0.21	0.10	0.09	0.16	0.76	0.00	3.73	1.16	3.10	6.54
uncharacterized LOC103159409	LOC103159409	103159409	0.13	0.19	0.21	0.39	0.26	0.21	10.63	16.47	24.84	35.93	28.98	32.71
uncharacterized LOC103159410	LOC103159410	103159410	14.06	13.75	10.25	9.22	10.76	11.33	677.51	655.16	496.83	442.71	515.42	543.98
60S ribosomal protein L37 pseudogene	LOC103159411	103159411	1.27	0.93	0.44	0.00	0.00	0.69	3.80	2.75	1.24	0.00	0.00	1.87
60S ribosomal protein L13a pseudogene	LOC103159412	103159412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159414	LOC103159414	103159414	0.02	0.01	0.03	0.02	0.03	0.02	2.28	0.92	3.73	2.32	3.10	1.87
60S ribosomal protein L7a pseudogene	LOC103159415	103159415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA polymerase II transcription factor SIII subunit A3-like-2	LOC103159416	103159416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small nuclear ribonucleoprotein-associated protein N	LOC103159417	103159417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP-binding cassette sub-family B member 6, mitochondrial pseudogene	LOC103159420	103159420	0.02	0.07	0.04	0.12	0.10	0.06	2.28	5.49	3.73	9.27	7.24	3.74
uncharacterized LOC103159422	LOC103159422	103159422	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	3.48	2.07	1.87
polyadenylate-binding protein-interacting protein 1 pseudogene	LOC103159423	103159423	0.08	0.09	0.09	0.04	0.07	0.03	2.28	2.75	2.48	1.16	2.07	0.93
40S ribosomal protein S15 pseudogene	LOC103159424	103159424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159430	LOC103159430	103159430	0.10	0.12	0.00	0.88	0.37	0.00	0.76	3.66	6.21	5.79	8.28	3.74

leucine-rich repeat protein SHOC-2-like	LOC103159432	103159432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159433	LOC103159433	103159433	1.44	0.50	0.35	1.05	1.77	1.10	19.75	11.90	9.94	18.54	15.52	16.82
post-GPI attachment to proteins factor 2 pseudogene	LOC103159437	103159437	0.15	0.07	0.29	0.10	0.12	0.14	0.76	0.92	3.73	1.16	2.07	0.00
40S ribosomal protein S3 pseudogene	LOC103159438	103159438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159447	LOC103159447	103159447	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159449	LOC103159449	103159449	46.56	33.99	31.55	30.98	0.00	0.69	478.51	422.75	370.14	355.79	2.07	1.87
uncharacterized LOC103159450	LOC103159450	103159450	27.74	28.50	29.65	33.57	41.69	39.35	664.60	670.72	674.45	719.69	870.42	778.58
adenosine 3'-phospho 5'-phosphosulfate transporter 1 pseudogene	LOC103159452	103159452	0.11	0.11	0.11	0.10	0.12	0.03	4.56	3.66	3.73	3.48	4.14	0.93
uncharacterized LOC103159453	LOC103159453	103159453	0.16	0.20	0.00	0.00	0.00	0.00	3.04	2.75	1.24	0.00	0.00	0.00
uncharacterized LOC103159456	LOC103159456	103159456	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC103159457	103159457	8.95	8.57	8.44	9.32	10.57	9.60	558.26	526.14	521.68	587.57	666.53	600.99
uncharacterized LOC103159461	LOC103159461	103159461	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
uncharacterized LOC103159462	LOC103159462	103159462	928.32	867.25	947.17	924.50	812.87	922.90	11352.83	10650.99	11327.83	10529.95	9678.16	10878.62
uncharacterized LOC103159463	LOC103159463	103159463	0.09	0.16	0.00	0.00	0.37	0.06	3.80	3.66	3.73	1.16	6.21	2.80
uncharacterized LOC103159465	LOC103159465	103159465	1.32	0.85	2.02	1.01	1.53	1.94	51.65	32.03	70.80	44.04	51.75	71.97
uncharacterized LOC103159467	LOC103159467	103159467	0.38	0.21	0.11	0.16	0.24	0.26	14.43	8.24	3.73	4.64	6.21	6.54
60S ribosomal protein L29 pseudogene	LOC103159469	103159469	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159471	LOC103159471	103159471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103159473	LOC103159473	103159473	0.06	0.07	0.20	0.10	0.26	0.00	9.11	14.64	8.69	11.59	14.49	10.28
60S ribosomal protein L17 pseudogene	LOC103159474	103159474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159477	LOC103159477	103159477	26.22	24.69	19.65	17.55	16.67	17.99	249.89	236.08	185.07	157.61	155.25	167.31
Ig heavy chain V-III region VH26-like	LOC103159481	103159481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
inactive N-acetylated-alpha-linked acidic dipeptidase-like protein 2	LOC103159483	103159483	2.39	1.73	3.82	0.00	2.17	1.09	3.04	4.58	2.48	0.00	2.07	3.74
uncharacterized LOC103159484	LOC103159484	103159484	0.45	0.44	0.40	0.42	0.82	0.61	41.02	39.35	32.29	31.29	54.85	52.34
uncharacterized LOC103159485	LOC103159485	103159485	1.32	1.23	0.34	0.82	0.57	0.78	28.10	13.73	7.45	17.38	10.35	12.15
heterogeneous nuclear ribonucleoproteins C1/C2 pseudogene	LOC103159486	103159486	0.05	0.06	0.12	0.19	0.03	0.12	4.56	4.58	3.73	10.43	3.10	9.35
40S ribosomal protein S21 pseudogene	LOC103159487	103159487	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159488	LOC103159488	103159488	7.73	8.73	9.04	9.12	13.06	11.38	1092.22	1264.58	1294.25	1301.47	1841.24	1639.41
uncharacterized LOC103159491	LOC103159491	103159491	0.18	0.17	0.13	0.12	0.28	0.30	9.87	8.24	4.97	4.64	12.42	10.28
uncharacterized LOC103159497	LOC103159497	103159497	43.12	43.05	39.66	43.36	56.17	54.68	4038.47	4047.19	3819.42	4100.26	5255.66	5232.28
uncharacterized LOC103159500	LOC103159500	103159500	0.27	0.11	0.15	0.00	0.00	0.00	2.28	0.92	1.24	1.16	0.00	0.93
uncharacterized LOC103159501	LOC103159501	103159501	5.86	5.85	5.57	5.35	4.91	4.76	70.64	73.20	64.59	62.58	60.03	72.90
uncharacterized LOC103159502	LOC103159502	103159502	1.31	1.37	2.08	1.83	2.18	2.15	97.22	96.08	132.90	128.64	145.93	154.22
selenoprotein K-like	LOC103159506	103159506	3.45	3.97	4.40	4.57	4.98	5.18	270.40	285.49	320.46	353.47	386.05	377.61
uncharacterized LOC103159507	LOC103159507	103159507	2.24	2.56	4.94	5.66	6.34	5.82	128.36	140.92	286.92	289.73	374.67	335.55
uncharacterized LOC103159510	LOC103159510	103159510	0.08	0.00	0.06	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00

L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase-like	LOC103159519	103159519	0.24	0.37	0.22	0.12	0.28	0.27	6.08	10.98	6.21	2.32	7.24	7.48
uncharacterized LOC103159523	LOC103159523	103159523	1.05	1.02	0.57	0.70	1.04	0.99	81.27	81.44	45.96	64.90	89.01	85.99
putative ERV-F(c)1 provirus ancestral Env polyprotein	LOC103159524	103159524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159531	LOC103159531	103159531	0.35	0.69	0.34	0.15	0.10	0.18	9.11	16.47	7.45	4.64	3.10	1.87
cell division cycle 5-like protein	LOC103159533	103159533	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103159534	LOC103159534	103159534	2.25	1.36	0.63	0.41	0.00	0.16	22.79	27.45	4.97	2.32	3.10	4.67
uncharacterized LOC103159535	LOC103159535	103159535	0.12	0.07	0.18	0.17	0.17	0.07	9.87	8.24	7.45	8.11	8.28	7.48
uncharacterized LOC103159536	LOC103159536	103159536	0.00	0.25	0.00	0.36	0.60	0.28	1.52	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C14orf164	LOC103159538	103159538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159539	LOC103159539	103159539	1.39	2.96	0.61	1.88	1.02	1.96	7.60	14.64	7.45	8.11	3.10	6.54
40S ribosomal protein S8 pseudogene	LOC103159541	103159541	3.85	3.91	4.09	5.01	5.98	6.46	198.24	195.82	226.06	236.42	289.80	301.90
granzyme G-like	LOC103159542	103159542	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159547	LOC103159547	103159547	0.82	0.98	0.91	0.84	1.18	1.09	58.48	66.80	55.89	64.90	82.80	72.90
igE-binding protein-like	LOC103159549	103159549	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103159550	103159550	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103159560	LOC103159560	103159560	0.27	0.25	0.05	0.23	0.25	0.37	15.95	14.64	4.97	8.11	16.56	14.02
uncharacterized LOC103159561	LOC103159561	103159561	0.00	0.13	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
neutral amino acid transporter B(0) pseudogene	LOC103159562	103159562	0.00	0.00	0.00	0.00	0.08	0.15	0.00	0.00	0.00	0.00	1.03	1.87

uncharacterized LOC103159564	LOC103159564	103159564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159566	LOC103159566	103159566	0.62	0.32	0.22	0.00	0.00	0.00	6.84	4.58	3.73	4.64	3.10	0.93
uncharacterized LOC103159569	LOC103159569	103159569	0.12	0.29	0.00	0.10	0.08	0.31	2.28	4.58	1.24	2.32	2.07	3.74
uncharacterized LOC103159570	LOC103159570	103159570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
uncharacterized LOC103159571	LOC103159571	103159571	0.20	0.24	0.00	0.00	0.00	0.54	4.56	1.83	2.48	4.64	5.17	9.35
UAP56-interacting factor pseudogene	LOC103159573	103159573	0.05	0.20	0.27	0.05	0.05	0.12	0.76	4.58	6.21	1.16	1.03	1.87
uncharacterized LOC103159574	LOC103159574	103159574	0.65	0.82	0.00	0.00	0.00	0.00	47.09	63.14	0.00	0.00	0.00	0.00
uncharacterized LOC103159575	LOC103159575	103159575	0.84	0.45	0.00	0.00	0.06	0.10	18.99	10.98	1.24	2.32	1.03	2.80
uncharacterized LOC103159577	LOC103159577	103159577	0.05	0.10	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
uncharacterized LOC103159578	LOC103159578	103159578	0.13	0.17	0.00	0.00	0.00	0.00	15.19	19.22	0.00	0.00	0.00	0.00
uncharacterized LOC103159579	LOC103159579	103159579	19.74	18.34	3.27	2.37	0.87	1.12	132.92	145.49	21.12	10.43	5.17	5.61
uncharacterized LOC103159580	LOC103159580	103159580	1.15	1.15	0.49	0.90	1.27	1.45	56.97	56.73	32.29	47.52	69.34	75.71
uncharacterized LOC103159587	LOC103159587	103159587	0.05	0.00	0.00	0.04	0.00	0.00	3.04	0.00	0.00	2.32	0.00	0.00
uncharacterized LOC103159588	LOC103159588	103159588	0.00	0.08	0.00	0.05	0.00	0.00	1.52	1.83	0.00	2.32	0.00	0.00
uncharacterized LOC103159589	LOC103159589	103159589	44.09	42.13	28.91	31.67	37.09	33.30	732.20	682.62	484.41	521.51	610.64	568.28
uncharacterized LOC103159590	LOC103159590	103159590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103159592	LOC103159592	103159592	0.22	1.26	0.73	0.00	1.16	0.50	6.08	9.15	7.45	0.00	11.38	12.15
uncharacterized LOC103159593	LOC103159593	103159593	0.56	0.57	0.20	0.18	0.27	0.39	15.19	14.64	4.97	4.64	5.17	10.28

GRB2-associated-binding protein 2 pseudogene	LOC103159595	103159595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27a pseudogene	LOC103159596	103159596	0.58	0.47	0.16	0.47	0.27	0.31	4.56	4.58	1.24	3.48	2.07	1.87
T-cell receptor alpha chain V region PHDS58-like	LOC103159607	103159607	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region RL-5-like	LOC103159608	103159608	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103159609	LOC103159609	103159609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region CTL-L17-like	LOC103159610	103159610	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region 2B4-like	LOC103159611	103159611	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-L17-like	LOC103159612	103159612	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-L17-like	LOC103159613	103159613	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103159614	103159614	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region 2B4-like	LOC103159615	103159615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region CTL-F3-like	LOC103159616	103159616	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103159617	LOC103159617	103159617	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159618	LOC103159618	103159618	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159619	LOC103159619	103159619	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 D4 pseudogene	LOC103159624	103159624	4.87	5.49	5.17	4.28	3.32	3.41	84.31	98.82	85.70	76.49	64.17	78.51
histone deacetylase 3 pseudogene	LOC103159625	103159625	2.01	1.72	1.77	1.85	1.94	2.01	61.52	54.90	50.93	57.95	56.92	57.01
uncharacterized LOC103159626	LOC103159626	103159626	0.57	0.63	0.64	0.68	0.97	0.60	12.15	12.81	12.42	15.07	20.70	13.09

uncharacterized LOC103159627	LOC103159627	103159627	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	3.73	2.32	2.07	1.87
uncharacterized LOC103159628	LOC103159628	103159628	6.93	3.19	5.74	5.37	7.59	6.49	1.52	0.00	0.00	0.00	1.03	0.93
prothymosin alpha-like	LOC103159629	103159629	117.44	136.97	154.64	137.43	133.47	128.78	2988.03	3269.41	3472.87	2889.19	2671.30	2774.10
keratin-associated protein 5-4-like	LOC103159632	103159632	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 5-2	LOC103159634	103159634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159636	LOC103159636	103159636	2.55	2.02	1.04	1.16	1.91	1.40	84.31	69.54	37.26	44.04	60.03	47.67
uncharacterized protein C1orf228-like	LOC103159637	103159637	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103159638	LOC103159638	103159638	0.30	0.53	0.48	0.23	0.45	0.79	10.63	18.30	14.91	8.11	12.42	22.43
60S ribosomal protein L26 pseudogene	LOC103159641	103159641	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159644	LOC103159644	103159644	0.09	0.00	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	2.07	0.93
uncharacterized LOC103159645	LOC103159645	103159645	0.52	0.62	1.17	1.12	0.27	0.49	12.91	10.07	19.87	11.59	12.42	6.54
uncharacterized LOC103159647	LOC103159647	103159647	0.23	0.15	0.10	0.29	0.34	0.57	10.63	6.41	8.69	9.27	14.49	23.37
uncharacterized LOC103159648	LOC103159648	103159648	0.09	0.12	0.05	0.12	0.07	0.08	9.11	12.81	4.97	11.59	6.21	8.41
uncharacterized LOC103159650	LOC103159650	103159650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
uncharacterized LOC103159651	LOC103159651	103159651	0.39	0.50	0.21	0.20	0.30	0.38	15.19	18.30	6.21	5.79	10.35	13.09
uncharacterized LOC103159655	LOC103159655	103159655	0.72	0.90	0.78	0.83	1.19	1.08	113.17	145.49	124.21	124.00	192.51	173.85
uncharacterized LOC103159656	LOC103159656	103159656	0.13	0.07	0.00	0.02	0.01	0.00	13.67	8.24	2.48	2.32	7.24	5.61
E3 ubiquitin-protein ligase RNF168-like	LOC103159657	103159657	0.00	0.03	0.00	0.00	0.00	0.16	0.00	0.92	0.00	0.00	2.07	5.61

uncharacterized protein MGC39606-like	LOC103159661	103159661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159663	LOC103159663	103159663	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159667	LOC103159667	103159667	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	1.87
uncharacterized LOC103159668	LOC103159668	103159668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159669	LOC103159669	103159669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
riboflavin kinase pseudogene	LOC103159670	103159670	0.00	0.09	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
cyclin-dependent kinase 2-interacting protein pseudogene	LOC103159671	103159671	0.00	0.08	0.00	0.00	0.00	0.08	0.00	1.83	0.00	0.00	0.00	0.93
rhox homeobox family member 2-like	LOC103159673	103159673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cancer/testis antigen 47B-like	LOC103159676	103159676	0.00	0.00	0.00	0.06	0.00	0.05	0.76	0.00	0.00	1.16	0.00	3.74
heat shock protein HSP 90-beta pseudogene	LOC103159678	103159678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159680	LOC103159680	103159680	1.78	2.15	0.54	0.83	1.01	1.49	21.27	24.71	6.21	10.43	11.38	19.63
uncharacterized LOC103159681	LOC103159681	103159681	0.40	0.35	0.29	0.39	0.42	0.20	20.51	16.47	16.15	17.38	18.63	13.09
U11/U12 small nuclear ribonucleoprotein 48 kDa protein pseudogene	LOC103159683	103159683	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	1.03	1.87
uncharacterized LOC103159685	LOC103159685	103159685	0.06	0.11	0.06	0.00	0.02	0.02	6.84	6.41	3.73	0.00	2.07	1.87
40S ribosomal protein S25 pseudogene	LOC103159686	103159686	10.36	10.30	8.58	3.75	7.63	6.55	56.21	49.41	39.75	18.54	35.19	25.24
uncharacterized LOC103159687	LOC103159687	103159687	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.03	0.00
cell division cycle 5-like protein pseudogene	LOC103159688	103159688	0.66	0.64	0.50	0.49	0.72	0.49	30.38	21.96	18.63	18.54	30.01	19.63
uncharacterized LOC103159690	LOC103159690	103159690	12.14	11.87	10.31	9.91	9.30	11.02	174.69	170.20	142.84	157.61	131.44	175.72

uncharacterized LOC103159693	LOC103159693	103159693	0.80	1.32	1.33	1.04	1.12	1.29	24.31	32.94	36.02	46.36	27.94	27.11
uncharacterized LOC103159700	LOC103159700	103159700	0.00	0.19	0.00	0.33	0.22	0.40	3.80	3.66	2.48	5.79	5.17	4.67
uncharacterized LOC103159701	LOC103159701	103159701	0.96	0.78	0.70	0.71	0.43	0.89	58.48	55.82	54.65	48.67	43.47	63.56
uncharacterized LOC103159702	LOC103159702	103159702	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
uncharacterized LOC103159703	LOC103159703	103159703	0.87	0.97	0.62	0.80	1.03	1.07	63.80	69.54	47.20	56.79	75.55	76.64
uncharacterized LOC103159704	LOC103159704	103159704	0.04	0.01	0.00	0.00	0.00	0.01	3.80	3.66	0.00	0.00	0.00	0.93
forkhead box protein H1-like	LOC103159706	103159706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triosephosphate isomerase-like	LOC103159707	103159707	0.22	0.19	0.13	0.09	0.00	0.20	3.80	3.66	2.48	1.16	0.00	3.74
cyclic nucleotide-gated cation channel beta-1-like	LOC103159708	103159708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159710	LOC103159710	103159710	16.72	15.72	13.28	13.75	15.20	13.02	473.95	463.92	397.47	394.03	433.66	405.65
uncharacterized LOC103159711	LOC103159711	103159711	0.09	0.05	0.14	0.20	0.06	0.32	3.80	2.75	3.73	8.11	6.21	9.35
tumor protein p63-regulated gene 1-like protein pseudogene	LOC103159712	103159712	0.09	0.11	0.10	0.14	0.07	0.13	5.32	6.41	6.21	8.11	8.28	8.41
uncharacterized LOC103159713	LOC103159713	103159713	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
vomeronasal type-1 receptor 4-like	LOC103159715	103159715	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159718	LOC103159718	103159718	0.47	0.50	0.25	0.33	0.48	0.47	49.37	48.50	29.81	33.61	50.71	46.73
uncharacterized LOC103159719	LOC103159719	103159719	7.15	7.62	4.43	5.61	5.42	4.95	202.80	208.63	140.36	168.04	176.98	165.44
uncharacterized LOC103159720	LOC103159720	103159720	0.07	0.12	0.00	0.00	0.00	0.00	3.80	3.66	0.00	0.00	0.00	0.00
uncharacterized LOC103159721	LOC103159721	103159721	2.18	1.88	1.02	1.22	1.91	1.52	159.50	166.54	93.16	107.78	148.00	140.20

uncharacterized LOC103159722	LOC103159722	103159722	0.00	0.00	0.00	0.08	0.07	0.00	0.00	0.92	1.24	1.16	3.10	2.80
uncharacterized LOC103159724	LOC103159724	103159724	0.58	0.57	0.49	0.58	0.60	0.68	96.46	85.10	68.31	100.83	96.25	112.16
uncharacterized LOC103159725	LOC103159725	103159725	0.00	0.00	0.00	0.00	0.00	0.38	0.76	0.00	0.00	1.16	2.07	0.93
uncharacterized LOC103159727	LOC103159727	103159727	3.69	5.65	5.88	3.71	4.73	2.71	115.45	112.55	95.64	73.01	92.11	87.86
uncharacterized LOC103159729	LOC103159729	103159729	0.05	0.08	0.04	0.03	0.02	0.07	5.32	8.24	2.48	2.32	4.14	4.67
interferon-activable protein 202-like	LOC103159730	103159730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 150	LOC103159732	103159732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159736	LOC103159736	103159736	6.11	6.44	4.26	4.00	6.43	5.59	270.40	247.06	232.27	248.01	335.34	312.18
androgen-binding protein homolog	LOC103159737	103159737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159738	LOC103159738	103159738	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
10 kDa heat shock protein, mitochondrial pseudogene	LOC103159739	103159739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aconitate hydratase, mitochondrial pseudogene	LOC103159740	103159740	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103159742	LOC103159742	103159742	11.21	10.61	9.95	13.17	11.96	11.82	353.19	307.45	308.04	362.74	379.84	384.15
uncharacterized LOC103159747	LOC103159747	103159747	1.02	1.01	1.69	1.43	1.80	1.50	44.81	53.07	77.01	74.17	86.94	66.36
uncharacterized LOC103159748	LOC103159748	103159748	11.66	11.13	11.09	13.72	12.66	12.30	2755.61	2624.32	2651.86	3248.45	2989.04	2927.39
uncharacterized LOC103159750	LOC103159750	103159750	0.14	0.17	0.00	0.23	0.10	0.00	3.04	2.75	3.73	2.32	3.10	0.93
UPF0598 protein C8orf82 homolog	LOC103159751	103159751	0.86	1.03	0.00	1.72	0.00	0.00	3.80	2.75	3.73	4.64	1.03	2.80
WD repeat-containing protein KIAA1875-like	LOC103159754	103159754	0.08	0.06	0.31	0.25	0.11	0.30	4.56	5.49	11.18	9.27	6.21	12.15

cytochrome c oxidase subunit 7B, mitochondrial pseudogene	LOC103159755	103159755	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
WD repeat-containing protein KIAA1875-like	LOC103159761	103159761	0.06	0.07	0.02	0.12	0.03	0.03	9.87	10.98	7.45	17.38	10.35	7.48
uncharacterized LOC103159762	LOC103159762	103159762	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103159765	LOC103159765	103159765	4.80	5.92	4.53	5.32	4.97	4.57	245.33	289.15	198.73	256.12	259.78	228.06
uncharacterized LOC103159766	LOC103159766	103159766	27.15	16.95	13.78	14.79	23.54	16.46	636.49	646.93	628.50	600.32	639.62	611.27
uncharacterized LOC103159769	LOC103159769	103159769	0.00	0.48	0.00	0.00	0.00	0.56	2.28	4.58	0.00	4.64	1.03	5.61
uncharacterized LOC103159771	LOC103159771	103159771	1.02	0.53	0.35	0.42	0.60	1.07	75.19	65.88	40.99	57.95	80.73	89.73
uncharacterized LOC103159772	LOC103159772	103159772	0.12	0.11	0.04	0.00	0.06	0.00	3.80	3.66	1.24	1.16	3.10	0.00
uncharacterized LOC103159773	LOC103159773	103159773	0.17	0.21	0.14	0.14	0.24	0.22	3.04	1.83	4.97	2.32	5.17	4.67
60S ribosomal protein L36a-like	LOC103159774	103159774	0.00	0.00	0.00	0.00	0.00	0.00	6.84	8.24	1.24	1.16	5.17	2.80
uncharacterized LOC103159775	LOC103159775	103159775	118.28	105.77	91.10	111.33	107.79	98.53	91.90	82.35	60.86	52.15	65.20	65.43
uncharacterized LOC103159776	LOC103159776	103159776	0.40	0.38	0.25	0.21	0.21	0.11	40.26	30.20	19.87	17.38	18.63	16.82
uncharacterized LOC103159777	LOC103159777	103159777	0.58	0.93	0.57	0.61	0.35	0.30	35.70	51.24	29.81	31.29	17.59	17.76
mortality factor 4-like protein 1 pseudogene	LOC103159778	103159778	0.06	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159779	LOC103159779	103159779	0.05	0.03	0.00	0.00	0.00	0.00	3.80	1.83	1.24	0.00	1.03	0.93
small integral membrane protein 14 pseudogene	LOC103159780	103159780	0.56	0.64	1.05	0.97	0.75	1.07	34.18	31.11	59.62	57.95	50.71	63.56
protein phosphatase 1 regulatory subunit 3G-like	LOC103159781	103159781	0.04	0.07	0.03	0.00	0.03	0.00	3.04	4.58	2.48	2.32	1.03	0.00
uncharacterized LOC103159787	LOC103159787	103159787	1.33	1.41	0.84	0.28	0.95	0.44	24.31	21.05	11.18	11.59	10.35	14.95

epidermal growth factor receptor substrate 15-like	LOC103159789	103159789	19.45	19.00	16.73	20.64	20.10	22.38	754.22	775.03	705.51	849.49	827.99	841.20
dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 4-like	LOC103159795	103159795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159797	LOC103159797	103159797	0.17	0.00	0.00	0.00	0.12	0.00	2.28	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103159799	LOC103159799	103159799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein ZFP69-like	LOC103159802	103159802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159806	LOC103159806	103159806	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	1.24	0.00	0.00	0.93
uncharacterized LOC103159809	LOC103159809	103159809	0.00	0.02	0.00	0.00	0.04	0.04	0.00	0.92	1.24	3.48	3.10	4.67
putative transmembrane protein	LOC103159811	103159811	0.12	0.15	0.60	0.48	0.55	1.11	4.56	3.66	14.91	12.75	14.49	30.84
peptidyl-prolyl cis-trans isomerase A-like	LOC103159816	103159816	1.47	1.29	1.29	0.87	0.58	0.38	3.80	2.75	3.73	1.16	1.03	0.00
uncharacterized LOC103159817	LOC103159817	103159817	9.40	10.40	17.65	11.53	14.86	13.32	54.69	61.31	94.40	63.74	87.97	73.84
uncharacterized LOC103159818	LOC103159818	103159818	0.52	0.33	0.73	0.79	0.33	0.48	23.55	18.30	19.87	19.70	21.73	19.63
uncharacterized LOC103159820	LOC103159820	103159820	0.35	0.00	0.00	0.00	0.00	0.98	2.28	0.00	0.00	0.00	1.03	3.74
40S ribosomal protein S2 pseudogene	LOC103159823	103159823	0.00	0.19	0.00	0.00	0.00	0.07	3.80	2.75	0.00	0.00	0.00	0.93
nucleophosmin-like	LOC103159825	103159825	3.65	0.81	1.18	0.63	0.90	2.41	78.23	33.86	29.81	12.75	17.59	51.41
uncharacterized LOC103159827	LOC103159827	103159827	2.59	2.53	2.27	2.98	4.02	3.31	423.06	469.41	445.91	544.69	665.50	598.19
putative germ cell-specific gene 1-like protein 2	LOC103159828	103159828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proto-oncogene Mas-like	LOC103159830	103159830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low-density lipoprotein receptor pseudogene	LOC103159831	103159831	0.02	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00

uncharacterized LOC103159835	LOC103159835	103159835	0.65	0.91	0.39	0.49	0.44	0.34	25.82	39.35	22.36	23.18	17.59	14.95
60S ribosomal protein L35 pseudogene	LOC103159836	103159836	1.59	1.80	0.58	1.02	1.37	1.32	54.69	56.73	24.84	44.04	49.68	48.60
60S ribosomal protein L39 pseudogene	LOC103159838	103159838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc phosphodiesterase ELAC protein 2-like	LOC103159848	103159848	5.22	6.69	5.75	6.41	7.04	4.16	81.27	94.25	73.28	82.28	93.15	69.17
thyroid transcription factor 1-associated protein 26 pseudogene	LOC103159850	103159850	2.22	2.25	1.82	1.77	1.96	2.28	9.87	5.49	4.97	5.79	7.24	4.67
uncharacterized LOC103159852	LOC103159852	103159852	0.62	0.69	0.44	0.13	0.91	0.81	12.15	13.73	4.97	5.79	17.59	9.35
uncharacterized LOC103159854	LOC103159854	103159854	0.14	0.17	0.00	0.00	0.20	0.00	3.80	2.75	1.24	1.16	1.03	0.00
uncharacterized LOC103159855	LOC103159855	103159855	1.01	1.03	1.05	0.80	0.80	0.95	52.41	64.05	53.41	48.67	48.64	57.01
uncharacterized LOC103159856	LOC103159856	103159856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159858	LOC103159858	103159858	10.45	11.07	7.88	12.04	18.13	17.16	204.32	218.69	209.91	249.17	375.70	385.08
60S ribosomal protein L6 pseudogene	LOC103159859	103159859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vacuolar protein sorting-associated protein 4B pseudogene	LOC103159860	103159860	1.00	0.88	0.78	0.93	1.01	0.56	47.85	48.50	33.54	38.24	37.26	20.56
uncharacterized LOC103159863	LOC103159863	103159863	0.57	0.66	0.71	0.52	1.09	0.88	36.46	40.26	43.47	45.20	69.34	51.41
uncharacterized LOC103159864	LOC103159864	103159864	44.11	40.13	22.79	23.99	36.21	38.86	1659.59	1559.22	870.70	921.34	1347.55	1460.89
uncharacterized LOC103159865	LOC103159865	103159865	0.20	0.24	0.00	0.16	0.28	0.13	4.56	5.49	1.24	2.32	6.21	4.67
uncharacterized LOC103159866	LOC103159866	103159866	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	5.79	2.07	2.80
uncharacterized LOC103159867	LOC103159867	103159867	3.88	4.53	2.93	4.36	4.72	5.08	169.38	203.14	139.11	194.70	223.56	235.54
tudor and KH domain-containing protein pseudogene	LOC103159868	103159868	0.03	0.06	0.00	0.04	0.07	0.00	0.76	1.83	0.00	1.16	4.14	0.00

MORC family CW-type zinc finger protein 2A pseudogene	LOC103159869	103159869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159871	LOC103159871	103159871	0.04	0.04	0.05	0.02	0.03	0.09	4.56	3.66	2.48	2.32	2.07	6.54
peptidyl-prolyl cis-trans isomerase A-like	LOC103159872	103159872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S acidic ribosomal protein P0 pseudogene	LOC103159873	103159873	1.55	1.30	0.78	0.52	0.99	0.70	42.53	51.24	27.33	18.54	35.19	20.56
peptidyl-prolyl cis-trans isomerase A-like	LOC103159876	103159876	5.34	6.09	5.05	3.47	3.52	2.00	25.06	11.90	13.66	15.07	9.31	9.35
uncharacterized LOC103159877	LOC103159877	103159877	0.14	0.07	0.05	0.13	0.04	0.03	4.56	2.75	1.24	3.48	1.03	0.93
uncharacterized LOC103159879	LOC103159879	103159879	0.16	0.10	0.07	0.04	0.17	0.08	12.91	5.49	3.73	2.32	9.31	4.67
uncharacterized LOC103159880	LOC103159880	103159880	1.19	1.09	1.19	1.09	1.25	1.90	36.46	31.11	39.75	38.24	55.89	70.10
uncharacterized LOC103159881	LOC103159881	103159881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC103159883	103159883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1-like	LOC103159884	103159884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-kinase anchor protein 9-like	LOC103159885	103159885	0.00	0.00	0.03	0.00	0.00	0.00	3.80	2.75	1.24	2.32	3.10	1.87
uncharacterized LOC103159890	LOC103159890	103159890	0.02	0.15	0.03	0.00	0.07	0.07	0.76	6.41	2.48	1.16	3.10	1.87
uncharacterized LOC103159892	LOC103159892	103159892	0.16	0.34	0.26	0.05	0.17	0.19	7.60	12.81	9.94	4.64	8.28	8.41
uncharacterized LOC103159893	LOC103159893	103159893	5.34	4.84	4.73	5.13	3.99	5.22	38.74	34.77	31.05	32.45	34.15	30.84
uncharacterized LOC103159895	LOC103159895	103159895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159896	LOC103159896	103159896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	3.48	1.03	0.93
uncharacterized LOC103159897	LOC103159897	103159897	0.30	0.00	0.49	0.16	0.14	0.38	11.39	4.58	3.73	2.32	3.10	9.35

uncharacterized LOC103159898	LOC103159898	103159898	0.00	0.15	0.14	0.06	0.23	0.52	0.00	3.66	6.21	2.32	4.14	14.02
uncharacterized LOC103159899	LOC103159899	103159899	0.27	0.16	0.06	0.00	0.19	0.13	8.35	6.41	1.24	1.16	6.21	2.80
uncharacterized LOC103159900	LOC103159900	103159900	0.72	0.68	0.70	0.79	0.85	0.99	131.40	122.61	137.87	158.77	169.74	212.17
uncharacterized LOC103159905	LOC103159905	103159905	3.83	3.89	4.95	4.49	34.52	35.24	318.25	349.54	429.76	396.35	2972.48	3089.08
NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial pseudogene	LOC103159906	103159906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159909	LOC103159909	103159909	0.00	0.00	0.00	0.00	0.00	0.00	4.56	8.24	4.97	5.79	5.17	4.67
uncharacterized LOC103159911	LOC103159911	103159911	0.00	0.00	0.00	0.00	0.00	0.00	2.28	3.66	7.45	4.64	5.17	0.93
transmembrane and coiled-coil domain-containing protein 1 pseudogene	LOC103159913	103159913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159916	LOC103159916	103159916	11.91	12.49	14.88	14.05	18.53	15.23	179.25	177.52	188.80	212.08	258.75	241.14
uncharacterized LOC103159919	LOC103159919	103159919	1.13	1.24	0.86	0.85	0.93	0.78	56.21	62.22	55.89	46.36	49.68	39.26
uncharacterized LOC103159921	LOC103159921	103159921	13.01	13.28	7.82	8.02	10.02	9.84	605.35	600.26	357.72	361.58	453.32	466.40
uncharacterized LOC103159922	LOC103159922	103159922	2.35	2.27	2.09	1.86	2.42	2.01	111.65	112.55	100.61	85.76	108.67	95.34
uncharacterized LOC103159926	LOC103159926	103159926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103159927	LOC103159927	103159927	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159928	LOC103159928	103159928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159931	LOC103159931	103159931	0.15	0.38	0.00	0.00	0.00	0.00	7.60	18.30	0.00	1.16	1.03	0.00
beta-mannosidase-like	LOC103159932	103159932	0.10	0.08	0.06	0.05	0.00	0.04	2.28	1.83	3.73	2.32	0.00	0.93
uncharacterized LOC103159933	LOC103159933	103159933	1.79	1.59	0.40	0.69	0.48	0.82	86.59	80.52	26.08	39.40	33.12	47.67

uncharacterized LOC103159935	LOC103159935	103159935	0.39	0.48	0.27	0.17	0.27	0.50	9.11	10.07	6.21	3.48	4.14	10.28
uncharacterized LOC103159936	LOC103159936	103159936	0.95	0.39	0.27	0.00	0.00	0.42	10.63	1.83	2.48	2.32	5.17	6.54
uncharacterized LOC103159937	LOC103159937	103159937	109.28	112.04	62.81	63.53	66.32	69.85	2186.71	2236.34	1299.22	1272.49	1350.66	1405.74
40S ribosomal protein S25 pseudogene	LOC103159939	103159939	9.52	8.76	7.49	5.52	5.77	4.58	59.24	43.92	39.75	28.97	25.87	36.45
protein transport protein Sec61 subunit gamma pseudogene	LOC103159941	103159941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159942	LOC103159942	103159942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103159943	103159943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kish-A pseudogene	LOC103159944	103159944	0.67	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159946	LOC103159946	103159946	0.48	0.57	0.05	0.05	0.09	0.08	19.75	20.13	2.48	2.32	2.07	5.61
histone H2A.V-like	LOC103159947	103159947	14.69	14.44	14.01	12.32	14.26	14.15	127.60	150.07	81.98	62.58	103.50	63.56
40S ribosomal protein S6 pseudogene	LOC103159948	103159948	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	1.16	0.00	0.93
uncharacterized LOC103159949	LOC103159949	103159949	0.00	0.00	0.00	0.00	0.00	0.00	0.76	3.66	1.24	3.48	5.17	0.93
uncharacterized LOC103159950	LOC103159950	103159950	0.00	0.00	0.11	0.59	0.00	0.00	0.00	0.00	2.48	5.79	2.07	0.93
40S ribosomal protein S6 pseudogene	LOC103159951	103159951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L36a-like	LOC103159952	103159952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aphrodisin-like	LOC103159953	103159953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159957	LOC103159957	103159957	0.02	0.01	0.10	0.00	0.02	0.03	0.76	0.00	3.73	0.00	1.03	0.00
uncharacterized LOC103159958	LOC103159958	103159958	0.05	0.00	0.00	0.00	0.00	0.06	1.52	0.92	0.00	0.00	0.00	0.93

heterogeneous nuclear ribonucleoprotein A3 pseudogene	LOC103159959	103159959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADP-ribosylation factor-like protein 1 pseudogene	LOC103159961	103159961	0.71	0.75	0.30	0.43	0.50	0.23	8.35	9.15	2.48	3.48	4.14	1.87
uncharacterized LOC103159965	LOC103159965	103159965	1.22	0.74	0.00	1.17	0.00	0.00	3.04	1.83	4.97	4.64	3.10	0.93
uncharacterized LOC103159966	LOC103159966	103159966	0.33	0.00	0.00	0.00	0.00	0.00	6.08	6.41	0.00	1.16	1.03	0.00
39S ribosomal protein L11, mitochondrial pseudogene	LOC103159968	103159968	0.12	0.00	0.23	0.00	0.07	0.00	0.76	0.92	1.24	0.00	1.03	1.87
uncharacterized LOC103159969	LOC103159969	103159969	0.76	0.86	0.48	0.38	0.68	0.76	26.58	31.11	17.39	15.07	23.80	26.17
high mobility group protein B1-like	LOC103159970	103159970	36.58	47.40	43.34	35.82	37.20	28.12	324.32	436.47	404.92	322.18	336.37	240.21
uncharacterized LOC103159971	LOC103159971	103159971	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
40S ribosomal protein S3 pseudogene	LOC103159974	103159974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
natural cytotoxicity triggering receptor 3 ligand 1-like	LOC103159976	103159976	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103159978	LOC103159978	103159978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103159982	LOC103159982	103159982	10.89	12.35	4.12	4.68	10.78	9.92	765.62	879.35	304.31	326.82	750.37	741.19
uncharacterized LOC103159983	LOC103159983	103159983	3.05	2.56	0.67	0.72	0.67	0.78	337.99	282.75	105.58	117.05	142.83	153.29
neuroguidin pseudogene	LOC103159984	103159984	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 pseudogene	LOC103159985	103159985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2-like	LOC103159992	103159992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-3	LOC103159994	103159994	2.08	1.69	3.89	1.96	1.27	1.45	60.76	62.22	109.30	71.85	39.33	48.60
uncharacterized LOC103159996	LOC103159996	103159996	5.12	4.93	3.15	3.58	4.45	3.53	166.34	163.79	101.85	115.89	144.90	123.38

uncharacterized LOC103159997	LOC103159997	103159997	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160000	LOC103160000	103160000	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103160002	LOC103160002	103160002	2.14	2.09	1.72	1.95	2.71	2.54	200.52	205.88	165.20	185.43	262.89	251.43
leucine-rich repeat-containing protein 58 pseudogene	LOC103160003	103160003	2.51	2.32	2.61	3.01	3.44	3.06	450.41	419.09	470.75	542.37	610.64	557.06
uncharacterized LOC103160004	LOC103160004	103160004	0.37	0.15	0.35	0.38	0.33	0.47	22.03	11.90	21.12	22.02	28.98	26.17
60 kDa heat shock protein, mitochondrial pseudogene	LOC103160006	103160006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160007	LOC103160007	103160007	1.86	1.70	1.07	0.96	1.04	0.81	50.13	53.07	31.05	46.36	33.12	31.78
uncharacterized LOC103160010	LOC103160010	103160010	1.35	1.21	0.82	1.25	1.45	1.24	63.04	55.82	39.75	64.90	69.34	74.77
T-cell receptor alpha chain V region CTL-F3-like	LOC103160015	103160015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region CTL-F3-like	LOC103160016	103160016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region CTL-L17-like	LOC103160017	103160017	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region PHDS58-like	LOC103160018	103160018	0.00	0.42	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103160019	103160019	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region 2B4-like	LOC103160020	103160020	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103160021	103160021	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103160022	103160022	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region 2B4-like	LOC103160023	103160023	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103160024	103160024	0.00	0.00	0.00	0.00	0.00	0.00						

uncharacterized LOC103160025	LOC103160025	103160025	0.07	0.08	0.00	0.11	0.39	0.00	8.35	10.07	1.24	6.95	7.24	2.80
uncharacterized LOC103160026	LOC103160026	103160026	0.16	0.00	0.00	0.26	0.00	0.00	5.32	1.83	0.00	2.32	1.03	0.93
uncharacterized LOC103160028	LOC103160028	103160028	0.00	0.14	0.06	0.00	0.00	0.00	0.00	3.66	1.24	0.00	0.00	0.93
uncharacterized LOC103160029	LOC103160029	103160029	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	1.16	0.00	1.87
uncharacterized LOC103160030	LOC103160030	103160030	0.15	0.20	2.51	3.05	0.06	0.11	22.03	20.13	339.09	353.47	10.35	11.22
uncharacterized LOC103160033	LOC103160033	103160033	8.71	10.01	8.55	9.97	11.32	11.32	274.19	308.37	260.84	310.59	357.07	360.78
cyclin-dependent kinases regulatory subunit 1 pseudogene	LOC103160034	103160034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160036	LOC103160036	103160036	0.24	0.26	0.23	0.40	0.19	0.38	10.63	12.81	14.91	18.54	8.28	10.28
uncharacterized LOC103160038	LOC103160038	103160038	1.36	1.24	0.89	1.42	2.36	1.14	40.26	31.11	26.08	44.04	64.17	33.65
voltage-dependent anion-selective channel protein 3 pseudogene	LOC103160039	103160039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160040	LOC103160040	103160040	0.62	1.74	1.56	0.00	0.00	0.00	3.04	4.58	3.73	1.16	5.17	1.87
uncharacterized LOC103160041	LOC103160041	103160041	10.57	10.51	12.32	14.41	16.24	14.84	638.01	627.71	773.82	920.18	1076.39	952.43
small proline-rich protein 2E-like	LOC103160043	103160043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small proline-rich protein 2I-like	LOC103160044	103160044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small proline-rich protein 2E-like	LOC103160045	103160045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small proline-rich protein 2E-like	LOC103160048	103160048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small proline-rich protein 2D	LOC103160049	103160049	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.92	0.00	0.00	0.00	0.93
sperm mitochondrial-associated cysteine-rich protein-like	LOC103160050	103160050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103160053	LOC103160053	103160053	155.26	149.32	117.76	117.91	100.61	99.25	4109.11	3960.27	3147.45	3090.84	2650.60	2621.75
uncharacterized LOC103160057	LOC103160057	103160057	3.81	3.50	2.32	2.07	2.28	1.64	34.18	28.37	17.39	13.91	20.70	11.22
uncharacterized LOC103160058	LOC103160058	103160058	5.10	5.22	3.95	4.12	2.64	4.31	62.28	76.86	53.41	47.52	40.36	51.41
40S ribosomal protein S2 pseudogene	LOC103160060	103160060	0.00	0.05	0.00	0.07	0.00	0.00	0.76	0.92	0.00	2.32	0.00	0.00
uncharacterized LOC103160061	LOC103160061	103160061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 331-like	LOC103160063	103160063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160066	LOC103160066	103160066	0.00	0.49	0.00	0.00	0.00	0.00	4.56	6.41	2.48	0.00	0.00	0.00
uncharacterized LOC103160067	LOC103160067	103160067	0.00	0.00	0.00	0.00	0.00	0.00	7.60	5.49	2.48	1.16	2.07	0.93
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9 pseudogene	LOC103160069	103160069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERM and PDZ domain-containing protein 3-like	LOC103160075	103160075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L24 pseudogene	LOC103160076	103160076	20.49	20.43	17.13	12.90	16.12	14.23	144.31	136.34	118.00	82.28	111.78	94.40
low molecular weight phosphotyrosine protein phosphatase pseudogene	LOC103160079	103160079	0.73	0.95	0.37	0.09	0.39	0.43	9.87	10.98	6.21	2.32	6.21	9.35
uncharacterized LOC103160081	LOC103160081	103160081	0.41	0.61	0.40	0.34	0.27	0.34	9.87	15.56	11.18	8.11	9.31	6.54
N-alpha-acetyltransferase 11-like	LOC103160085	103160085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin-like protein 4A pseudogene	LOC103160086	103160086	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C18orf32	LOC103160089	103160089	14.49	13.51	17.15	16.28	19.42	18.62	425.34	395.29	496.83	480.95	568.21	544.91
uncharacterized LOC103160091	LOC103160091	103160091	0.01	0.03	0.00	0.06	0.06	0.04	5.32	6.41	2.48	8.11	9.31	10.28
WAS/WASL-interacting protein family member 2-like	LOC103160096	103160096	0.64	0.24	0.41	0.22	0.12	0.18	14.43	6.41	7.45	2.32	4.14	3.74

uncharacterized LOC103160097	LOC103160097	103160097	0.00	0.14	0.00	0.00	0.00	0.00	0.76	0.92	0.00	2.32	1.03	0.93
60S ribosomal protein L7a pseudogene	LOC103160098	103160098	0.18	0.22	0.16	0.02	0.18	0.02	2.28	1.83	2.48	0.00	2.07	0.00
uncharacterized LOC103160099	LOC103160099	103160099	0.34	0.12	0.00	0.00	0.07	0.12	6.84	4.58	0.00	1.16	2.07	3.74
uncharacterized LOC103160100	LOC103160100	103160100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160102	LOC103160102	103160102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small EDRK-rich factor 2 pseudogene	LOC103160103	103160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre-mRNA-splicing factor CWC22 homolog pseudogene	LOC103160104	103160104	0.02	0.06	0.00	0.00	0.04	0.08	0.76	2.75	0.00	1.16	3.10	5.61
uncharacterized LOC103160105	LOC103160105	103160105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160109	LOC103160109	103160109	0.16	0.00	0.00	0.13	0.00	0.00	1.52	0.00	0.00	1.16	3.10	0.00
uncharacterized LOC103160110	LOC103160110	103160110	15.52	15.95	19.45	14.53	19.97	14.73	69.12	94.25	74.53	86.92	94.18	80.38
uncharacterized LOC103160112	LOC103160112	103160112	0.54	0.81	0.11	0.21	0.09	0.00	18.23	22.88	1.24	5.79	4.14	2.80
uncharacterized LOC103160114	LOC103160114	103160114	0.06	0.09	0.02	0.06	0.02	0.02	3.80	6.41	2.48	3.48	2.07	3.74
uncharacterized LOC103160116	LOC103160116	103160116	3.96	3.57	2.98	2.17	3.21	1.82	54.69	51.24	39.75	33.61	47.61	39.26
uncharacterized LOC103160117	LOC103160117	103160117	1.09	1.09	0.66	0.77	0.93	1.00	85.07	94.25	60.86	60.26	80.73	83.19
uncharacterized LOC103160121	LOC103160121	103160121	0.08	0.13	0.00	0.00	0.00	0.00	2.28	5.49	0.00	0.00	0.00	0.00
uncharacterized LOC103160122	LOC103160122	103160122	0.00	0.00	0.09	0.25	0.07	0.07	0.00	0.92	2.48	5.79	4.14	0.93
E3 ubiquitin-protein ligase TRIM17	LOC103160127	103160127	0.19	0.19	0.37	0.10	0.13	0.08	5.32	4.58	11.18	4.64	5.17	2.80
protein RoBo-1-like	LOC103160130	103160130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

olfactory receptor 2T4-like	LOC103160131	103160131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 2T8-like	LOC103160132	103160132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160134	LOC103160134	103160134	0.18	0.28	0.06	0.06	0.03	0.10	8.35	12.81	3.73	2.32	1.03	3.74
60S ribosomal protein L7a pseudogene	LOC103160135	103160135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160138	LOC103160138	103160138	1.54	1.78	2.16	1.99	2.75	2.51	77.47	87.84	101.85	100.83	128.34	112.16
uncharacterized LOC103160139	LOC103160139	103160139	1.21	1.62	1.83	0.59	1.54	1.42	34.18	40.26	44.72	32.45	30.01	36.45
uncharacterized LOC103160141	LOC103160141	103160141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160142	LOC103160142	103160142	12.64	13.35	5.21	8.45	8.02	6.12	195.96	209.54	73.28	106.62	115.92	101.88
uncharacterized LOC103160145	LOC103160145	103160145	0.16	0.25	0.16	0.27	0.20	0.16	9.87	14.64	7.45	13.91	13.45	8.41
60S ribosomal protein L23 pseudogene	LOC103160147	103160147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
overexpressed in colon carcinoma 1 protein pseudogene	LOC103160150	103160150	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.92	0.00	1.16	1.03	2.80
mucin-16-like	LOC103160152	103160152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-12-like	LOC103160156	103160156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein transport protein Sec61 subunit gamma pseudogene	LOC103160162	103160162	0.00	0.58	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
uncharacterized LOC103160165	LOC103160165	103160165	6.21	6.41	3.40	4.40	4.97	4.61	1108.17	1142.88	609.86	790.38	892.16	844.94
kinesin-like protein KIF23	LOC103160168	103160168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160169	LOC103160169	103160169	0.21	0.12	0.17	0.00	0.14	0.00	7.60	3.66	3.73	0.00	1.03	0.93
uncharacterized LOC103160170	LOC103160170	103160170	4.54	5.40	3.62	3.26	3.72	5.59	217.23	243.40	196.25	178.47	182.16	266.38

uncharacterized LOC103160171	LOC103160171	103160171	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	1.24	1.16	4.14	2.80
uncharacterized LOC103160172	LOC103160172	103160172	0.14	0.28	0.12	0.25	0.28	0.20	10.63	17.39	7.45	18.54	18.63	16.82
uncharacterized LOC103160176	LOC103160176	103160176	0.39	1.64	0.55	0.30	0.31	0.72	20.51	26.54	18.63	13.91	18.63	23.37
uncharacterized LOC103160178	LOC103160178	103160178	8.59	9.28	11.32	12.26	13.83	9.45	525.60	470.33	614.83	687.24	979.10	829.99
uncharacterized LOC103160179	LOC103160179	103160179	0.85	0.72	0.63	0.53	0.70	0.95	18.99	19.22	13.66	10.43	13.45	22.43
uncharacterized LOC103160180	LOC103160180	103160180	0.12	0.14	0.08	0.18	0.10	0.12	4.56	5.49	3.73	5.79	3.10	3.74
uncharacterized LOC103160181	LOC103160181	103160181	67.98	60.22	64.66	81.77	82.36	69.71	2163.17	2143.01	2323.94	2668.99	3268.49	2724.56
uncharacterized LOC103160182	LOC103160182	103160182	0.23	0.18	0.19	0.06	0.21	0.19	8.35	5.49	8.69	6.95	9.31	7.48
uncharacterized LOC103160183	LOC103160183	103160183	2.95	1.41	1.42	0.99	1.63	2.07	41.02	21.96	28.57	17.38	27.94	24.30
multifunctional protein ADE2 pseudogene	LOC103160184	103160184	8.66	7.55	7.14	6.72	8.63	7.58	72.16	70.46	58.38	45.20	76.59	72.90
uncharacterized LOC103160187	LOC103160187	103160187	0.08	0.21	0.14	0.18	0.12	0.27	3.80	3.66	1.24	3.48	6.21	5.61
uncharacterized LOC103160195	LOC103160195	103160195	0.06	0.14	0.19	0.00	0.08	0.28	6.08	10.07	3.73	5.79	2.07	8.41
uncharacterized LOC103160196	LOC103160196	103160196	0.09	0.23	0.00	0.30	0.39	0.12	3.80	1.83	1.24	2.32	5.17	0.93
SCY1-like protein 2	LOC103160199	103160199	23.74	22.23	23.11	25.24	26.34	25.20	2732.82	2581.31	2710.23	2918.16	2993.18	2909.63
uncharacterized LOC103160203	LOC103160203	103160203	0.03	0.08	0.00	0.03	0.02	0.00	4.56	3.66	3.73	1.16	3.10	1.87
uncharacterized LOC103160204	LOC103160204	103160204	0.09	0.45	0.00	0.00	0.00	0.00	0.76	6.41	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A pseudogene	LOC103160205	103160205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
splicing factor 3B subunit 4 pseudogene	LOC103160206	103160206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103160209	LOC103160209	103160209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative 60S ribosomal protein L39-like 5	LOC103160210	103160210	0.02	0.01	0.02	0.07	0.05	0.00	1.52	0.92	2.48	4.64	4.14	0.93
60S ribosomal protein L31 pseudogene	LOC103160211	103160211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	2.07	1.87
Ig heavy chain V region 3-like	LOC103160213	103160213	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103160214	LOC103160214	103160214	0.06	0.07	0.29	0.18	0.08	0.15	1.52	0.92	3.73	2.32	1.03	1.87
elongation factor 1-alpha 1 pseudogene	LOC103160215	103160215	7.43	8.94	7.33	7.24	8.62	6.44	262.04	312.94	269.53	253.80	304.29	232.73
chromosome unknown open reading frame, human C1orf105	LOC103160216	103160216	0.19	0.09	0.08	0.07	0.25	0.13	18.23	15.56	7.45	8.11	20.70	10.28
uncharacterized LOC103160217	LOC103160217	103160217	0.00	0.43	0.00	0.00	0.00	0.00	1.52	2.75	2.48	1.16	4.14	0.93
uncharacterized LOC103160219	LOC103160219	103160219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative protein FRMPD2-like	LOC103160220	103160220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160221	LOC103160221	103160221	0.26	0.13	0.36	0.17	0.23	0.16	11.39	8.24	16.15	9.27	9.31	10.28
uncharacterized LOC103160224	LOC103160224	103160224	43.55	44.68	16.96	18.70	24.05	25.00	840.81	872.03	326.67	360.42	472.99	474.81
uncharacterized LOC103160225	LOC103160225	103160225	3.74	3.65	3.08	3.46	3.58	3.46	1153.74	1149.28	937.78	1111.40	1082.60	1124.41
interferon alpha-inducible protein 27-like protein 2 pseudogene	LOC103160226	103160226	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160227	LOC103160227	103160227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC103160230	103160230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory receptor 7E24-like	LOC103160231	103160231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA-binding motif, single-stranded-interacting protein 2-like	LOC103160232	103160232	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00

alpha-enolase pseudogene	LOC103160234	103160234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC103160235	103160235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin regulatory light chain 2, skeletal muscle isoform-like	LOC103160239	103160239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160240	LOC103160240	103160240	0.53	1.02	0.00	0.17	1.48	0.27	3.04	7.32	0.00	1.16	10.35	3.74
uncharacterized LOC103160242	LOC103160242	103160242	0.92	0.72	0.34	0.45	0.55	0.62	71.40	55.82	26.08	42.88	39.33	55.15
uncharacterized LOC103160243	LOC103160243	103160243	2.93	2.78	2.85	3.25	4.37	5.20	91.14	90.59	93.16	107.78	133.51	157.02
H-2 class I histocompatibility antigen, Q10 alpha chain-like	LOC103160245	103160245	40.53	40.39	34.89	15.96	5.19	11.11	13.67	11.90	14.91	3.48	3.10	0.93
uncharacterized LOC103160246	LOC103160246	103160246	10.31	11.84	16.34	11.57	12.87	16.64	97.22	102.48	149.05	113.57	130.41	164.50
40S ribosomal protein S23 pseudogene	LOC103160249	103160249	3.69	3.68	4.32	1.56	1.92	2.08	36.46	27.45	32.29	13.91	14.49	18.69
uncharacterized LOC103160253	LOC103160253	103160253	2.40	2.76	4.41	3.94	3.57	4.13	61.52	72.29	101.85	100.83	101.43	98.14
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC103160254	103160254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform pseudogene	LOC103160255	103160255	0.60	0.39	0.40	0.34	0.51	0.37	15.95	12.81	12.42	10.43	17.59	9.35
60S ribosomal protein L17 pseudogene	LOC103160257	103160257	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L36a-like	LOC103160261	103160261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160262	LOC103160262	103160262	2.60	2.31	1.49	1.91	1.58	1.97	366.86	344.97	232.27	271.19	245.29	303.77
exportin-5 pseudogene	LOC103160263	103160263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L5 pseudogene	LOC103160265	103160265	0.16	0.19	0.26	0.49	0.38	0.39	4.56	3.66	9.94	9.27	11.38	13.09
uncharacterized LOC103160266	LOC103160266	103160266	0.09	0.20	0.04	0.11	0.16	0.35	3.80	9.15	4.97	5.79	7.24	13.09

zinc finger protein 75D-like	LOC103160282	103160282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 449-like	LOC103160283	103160283	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160285	LOC103160285	103160285	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
uncharacterized LOC103160286	LOC103160286	103160286	2.28	1.78	3.31	4.08	3.48	4.51	15.95	10.07	16.15	19.70	22.77	24.30
tudor domain-containing protein 15-like	LOC103160287	103160287	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin, type II cytoskeletal 75	LOC103160294	103160294	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160295	LOC103160295	103160295	4.04	3.27	3.51	6.64	3.45	1.41	11.39	8.24	9.94	16.22	11.38	4.67
chromosome unknown open reading frame, human C12orf80	LOC103160298	103160298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160299	LOC103160299	103160299	4.29	4.37	3.76	3.23	3.75	4.28	113.93	120.78	93.16	78.81	104.53	116.83
proline-rich protein 2-like	LOC103160303	103160303	0.02	0.03	0.10	0.00	0.06	0.03	0.00	1.83	2.48	0.00	1.03	1.87
heat shock cognate 71 kDa protein-like	LOC103160304	103160304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 665-like	LOC103160305	103160305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160307	LOC103160307	103160307	0.18	0.28	0.00	0.06	0.11	0.05	13.67	17.39	2.48	5.79	7.24	8.41
uncharacterized LOC103160308	LOC103160308	103160308	0.07	0.00	0.00	0.03	0.12	0.06	3.04	0.92	0.00	1.16	4.14	1.87
uncharacterized LOC103160310	LOC103160310	103160310	0.04	0.09	0.06	0.00	0.11	0.05	0.76	1.83	1.24	0.00	3.10	0.93
adenylate kinase 4, mitochondrial pseudogene	LOC103160312	103160312	0.12	0.28	0.19	0.14	0.06	0.32	3.04	3.66	2.48	2.32	0.00	4.67
U6 snRNA-associated Sm-like protein LSm6 pseudogene	LOC103160315	103160315	6.54	4.58	3.53	6.46	7.27	6.14	14.43	5.49	6.21	9.27	16.56	8.41
uncharacterized LOC103160316	LOC103160316	103160316	1.03	1.23	3.69	0.00	0.00	0.00	9.87	10.07	3.73	5.79	1.03	0.93

uncharacterized LOC103160321	LOC103160321	103160321	0.95	0.19	0.53	0.26	0.45	1.04	9.11	5.49	3.73	3.48	7.24	9.35
60S ribosomal protein L17 pseudogene	LOC103160322	103160322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160323	LOC103160323	103160323	0.00	0.22	0.00	0.00	0.26	0.48	3.80	2.75	2.48	10.43	7.24	5.61
uncharacterized LOC103160324	LOC103160324	103160324	10.35	13.04	7.30	9.18	16.79	12.78	369.90	364.18	244.69	305.95	632.38	529.02
40S ribosomal protein S6 pseudogene	LOC103160336	103160336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160339	LOC103160339	103160339	0.00	0.11	0.00	0.00	0.00	0.00	2.28	4.58	0.00	1.16	1.03	3.74
uncharacterized LOC103160343	LOC103160343	103160343	1.04	0.95	0.57	0.22	0.32	0.44	22.79	21.96	11.18	10.43	12.42	6.54
uncharacterized LOC103160344	LOC103160344	103160344	0.03	0.00	0.00	0.00	0.00	0.00	5.32	1.83	1.24	1.16	0.00	0.00
NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial	LOC103160345	103160345	0.52	0.26	0.00	0.82	0.24	0.66	7.60	3.66	0.00	13.91	5.17	6.54
putative protein TPRXL	LOC103160349	103160349	0.00	0.31	0.09	0.00	0.29	0.13	2.28	5.49	3.73	1.16	5.17	4.67
uncharacterized LOC103160358	LOC103160358	103160358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160359	LOC103160359	103160359	5.85	5.60	5.21	7.75	8.82	9.33	289.38	259.87	248.42	377.81	421.24	452.38
uncharacterized LOC103160365	LOC103160365	103160365	0.18	0.09	0.06	0.11	0.00	0.05	7.60	4.58	2.48	9.27	3.10	6.54
late cornified envelope protein 1B-like	LOC103160377	103160377	0.44	0.92	0.00	0.00	0.00	0.00	47.09	39.35	32.29	20.86	10.35	14.02
uncharacterized LOC103160382	LOC103160382	103160382	0.74	0.45	0.21	0.40	1.38	0.48	13.67	12.81	3.73	12.75	14.49	16.82
uncharacterized LOC103160383	LOC103160383	103160383	12.84	12.93	17.42	19.25	25.20	23.95	1392.99	1427.45	1874.31	2070.99	2671.30	2603.06
uncharacterized LOC103160386	LOC103160386	103160386	0.22	0.26	0.12	0.12	0.00	0.00	2.28	3.66	2.48	2.32	0.00	0.00
uncharacterized LOC103160387	LOC103160387	103160387	0.17	0.20	0.00	0.26	0.12	0.10	5.32	5.49	1.24	5.79	6.21	1.87

40S ribosomal protein S19 pseudogene	LOC103160390	103160390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160395	LOC103160395	103160395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160397	LOC103160397	103160397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NACHT, LRR and PYD domains-containing protein 5 pseudogene	LOC103160401	103160401	1.01	1.17	0.74	0.82	0.84	0.88	43.29	47.58	31.05	39.40	34.15	41.13
heterogeneous nuclear ribonucleoprotein A3-like	LOC103160402	103160402	7.13	7.48	6.41	5.91	6.44	5.35	376.73	416.34	337.85	265.39	273.24	227.12
uncharacterized LOC103160403	LOC103160403	103160403	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
dynein light chain roadblock-type 1 pseudogene	LOC103160404	103160404	3.08	2.94	2.78	2.71	2.34	2.15	18.23	14.64	14.91	17.38	11.38	10.28
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103160405	103160405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L35a pseudogene	LOC103160407	103160407	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	1.16	2.07	1.87
uncharacterized LOC103160408	LOC103160408	103160408	0.16	0.19	0.05	0.38	0.13	0.00	15.95	13.73	7.45	6.95	8.28	7.48
uncharacterized LOC103160409	LOC103160409	103160409	0.00	0.00	0.00	0.00	0.00	0.00	15.95	18.30	12.42	11.59	14.49	17.76
transmembrane protein 92-like	LOC103160410	103160410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160411	LOC103160411	103160411	0.07	0.00	0.47	0.56	0.10	0.27	3.04	0.92	12.42	11.59	7.24	3.74
actin, cytoskeletal 4-like	LOC103160412	103160412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160414	LOC103160414	103160414	0.17	0.63	0.00	0.29	0.50	0.00	9.87	5.49	8.69	4.64	9.31	11.22
elongation factor 1-alpha 1 pseudogene	LOC103160415	103160415	0.12	0.00	0.10	0.14	0.00	0.00	3.04	0.92	2.48	3.48	1.03	0.93
uncharacterized LOC103160416	LOC103160416	103160416	0.27	0.16	0.22	0.17	0.11	0.17	12.15	5.49	8.69	4.64	5.17	4.67
uncharacterized LOC103160417	LOC103160417	103160417	61.31	56.89	89.97	85.09	77.62	77.62	2027.21	1893.20	3013.30	2679.42	2399.10	2456.31

H-2 class II histocompatibility antigen, E-S beta chain-like	LOC103160418	103160418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160421	LOC103160421	103160421	0.10	0.00	0.08	0.08	0.20	0.00	1.52	0.92	3.73	1.16	3.10	0.93
uncharacterized LOC103160422	LOC103160422	103160422	2.55	2.74	1.64	2.56	2.65	1.41	106.34	119.87	73.28	88.08	92.11	68.23
uncharacterized LOC103160423	LOC103160423	103160423	0.40	0.13	0.39	0.30	0.63	0.46	39.50	30.20	34.78	35.93	49.68	49.54
uncharacterized LOC103160424	LOC103160424	103160424	1.58	1.89	1.20	1.15	1.24	1.43	154.95	186.67	121.72	100.83	132.48	146.74
uncharacterized LOC103160428	LOC103160428	103160428	0.10	0.16	0.21	0.12	0.04	0.03	6.08	4.58	4.97	4.64	5.17	0.93
uncharacterized LOC103160429	LOC103160429	103160429	0.81	0.73	0.62	0.52	0.85	0.92	56.97	53.99	42.23	38.24	51.75	65.43
chromosome unknown open reading frame, human C12orf75	LOC103160432	103160432	6.28	6.17	5.64	5.18	8.75	6.39	186.09	209.54	190.04	175.00	258.75	213.10
uncharacterized LOC103160433	LOC103160433	103160433	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103160434	LOC103160434	103160434	0.34	0.46	0.70	0.77	0.88	0.88	76.71	103.40	161.47	173.84	200.79	188.80
60S ribosomal protein L30-like	LOC103160437	103160437	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160438	LOC103160438	103160438	0.37	0.28	0.30	0.23	0.25	0.19	17.47	13.73	16.15	11.59	15.52	10.28
putative deoxyribose-phosphate aldolase pseudogene	LOC103160439	103160439	1.87	1.75	1.63	1.35	1.18	1.48	45.57	37.52	36.02	24.34	31.05	32.71
apolipoprotein O pseudogene	LOC103160440	103160440	0.00	0.05	0.00	0.00	0.10	0.00	0.76	1.83	0.00	0.00	2.07	0.00
40S ribosomal protein S4, X isoform-like	LOC103160443	103160443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-1-like	LOC103160444	103160444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160450	LOC103160450	103160450	2.96	2.51	4.04	2.55	4.37	3.29	46.33	41.18	47.20	47.52	76.59	76.64
uncharacterized LOC103160452	LOC103160452	103160452	0.00	0.41	0.00	0.00	0.00	0.00	1.52	0.92	1.24	2.32	1.03	1.87

non-histone chromosomal protein HMG-17-like	LOC103160456	103160456	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L6 pseudogene	LOC103160458	103160458	2.75	2.26	1.86	1.55	1.67	1.20	44.81	47.58	36.02	31.29	38.29	24.30
C-type lectin domain family 2 member A-like	LOC103160461	103160461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160462	LOC103160462	103160462	0.00	0.08	0.00	0.00	0.09	0.00	1.52	1.83	0.00	2.32	3.10	0.93
killer cell lectin-like receptor subfamily F member 1	LOC103160463	103160463	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103160467	LOC103160467	103160467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	2.32	0.00	0.93
uncharacterized LOC103160468	LOC103160468	103160468	11.09	12.24	5.28	5.41	7.18	7.42	516.49	566.41	248.42	258.44	343.62	337.42
uncharacterized LOC103160469	LOC103160469	103160469	9.19	7.89	11.23	12.23	13.81	12.81	300.78	264.44	331.64	374.33	403.64	397.23
60S ribosomal protein L28 pseudogene	LOC103160470	103160470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160471	LOC103160471	103160471	0.25	0.00	0.08	0.16	0.00	0.06	6.08	6.41	0.00	3.48	2.07	0.00
vinculin-like	LOC103160472	103160472	0.16	0.00	0.09	0.16	0.15	0.13	5.32	2.75	1.24	5.79	4.14	3.74
uncharacterized LOC103160475	LOC103160475	103160475	0.00	0.82	0.57	0.28	0.00	0.22	8.35	11.90	6.21	3.48	3.10	4.67
uncharacterized LOC103160476	LOC103160476	103160476	3.31	2.98	2.88	3.01	3.21	2.58	104.06	86.01	85.70	88.08	96.25	76.64
uncharacterized LOC103160478	LOC103160478	103160478	0.28	0.34	0.33	0.34	0.36	0.17	13.67	13.73	12.42	12.75	14.49	8.41
caspase-9-like	LOC103160479	103160479	0.40	0.33	0.31	0.22	0.28	0.36	1.52	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103160481	LOC103160481	103160481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nogo-B receptor pseudogene	LOC103160485	103160485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160489	LOC103160489	103160489	0.56	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93

uncharacterized LOC103160490	LOC103160490	103160490	0.23	0.42	0.00	0.14	0.08	0.07	3.80	7.32	0.00	4.64	8.28	5.61
40S ribosomal protein S18 pseudogene	LOC103160491	103160491	32.22	38.87	32.58	17.01	4.71	5.50	1200.83	1481.44	1237.12	624.66	169.74	192.54
uncharacterized LOC103160494	LOC103160494	103160494	0.21	0.24	0.13	0.15	0.24	0.24	18.23	19.22	11.18	12.75	18.63	18.69
uncharacterized LOC103160496	LOC103160496	103160496	0.38	0.75	0.24	0.15	0.26	0.24	8.35	8.24	4.97	4.64	9.31	4.67
uncharacterized LOC103160497	LOC103160497	103160497	34.86	36.21	31.49	30.91	23.26	23.54	587.88	610.33	534.10	505.29	383.98	388.82
uncharacterized LOC103160499	LOC103160499	103160499	0.42	0.06	0.08	0.22	0.33	0.06	8.35	0.92	1.24	3.48	7.24	0.93
uncharacterized LOC103160500	LOC103160500	103160500	0.37	0.78	0.00	0.59	0.13	0.59	7.60	10.98	0.00	13.91	7.24	9.35
zinc finger protein 2-like	LOC103160501	103160501	5.90	6.59	6.90	6.67	7.01	7.02	429.90	478.56	493.11	489.06	519.56	492.57
40S ribosomal protein S29 pseudogene	LOC103160502	103160502	0.00	1.41	2.03	0.00	0.00	0.55	0.00	2.75	4.97	2.32	0.00	0.93
zinc finger protein 120-like	LOC103160503	103160503	0.30	0.29	0.33	0.20	0.39	0.25	19.75	21.05	24.84	13.91	23.80	19.63
zinc finger protein 239-like	LOC103160504	103160504	1.77	2.02	2.20	2.25	2.81	2.34	9.87	17.39	4.97	6.95	16.56	22.43
zinc finger protein 79-like	LOC103160509	103160509	0.51	0.68	0.63	0.83	0.86	0.89	18.23	21.05	18.63	24.34	33.12	28.97
zinc finger protein 791-like	LOC103160510	103160510	0.07	0.06	0.02	0.02	0.13	0.07	0.76	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103160511	LOC103160511	103160511	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	1.16	2.07	0.93
UBA-like domain-containing protein 1 pseudogene	LOC103160512	103160512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160516	LOC103160516	103160516	0.36	0.11	0.30	0.15	0.00	0.35	11.39	6.41	3.73	5.79	4.14	8.41
uncharacterized LOC103160518	LOC103160518	103160518	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	1.24	1.16	0.00	0.93
mortality factor 4-like protein 1 pseudogene	LOC103160519	103160519	1.71	1.00	1.11	1.05	1.15	1.43	41.77	30.20	32.29	37.09	38.29	35.52

mitochondrial inner membrane protease subunit 2	LOC103160520	103160520	20.69	20.57	23.38	21.82	25.62	26.83	111.65	107.97	130.42	99.67	110.74	135.53
sororin pseudogene	LOC103160522	103160522	0.00	0.10	0.49	0.07	0.18	0.16	0.00	1.83	8.69	1.16	5.17	2.80
uncharacterized LOC103160523	LOC103160523	103160523	1.51	1.10	1.32	1.57	1.80	1.68	162.54	118.04	140.36	175.00	207.00	187.87
uncharacterized LOC103160542	LOC103160542	103160542	0.46	0.42	0.00	0.00	0.00	0.15	4.56	4.58	1.24	2.32	3.10	2.80
acyl-CoA desaturase pseudogene	LOC103160544	103160544	0.05	0.03	0.04	0.00	0.06	0.06	1.52	1.83	2.48	1.16	5.17	3.74
uncharacterized LOC103160546	LOC103160546	103160546	0.50	0.44	0.19	0.14	0.04	0.05	37.22	37.52	12.42	8.11	3.10	3.74
succinate dehydrogenase assembly factor 1, mitochondrial-like	LOC103160547	103160547	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	1.16	1.03	0.93
uncharacterized LOC103160549	LOC103160549	103160549	0.19	0.23	0.09	0.08	0.34	0.30	5.32	7.32	3.73	3.48	8.28	7.48
uncharacterized LOC103160550	LOC103160550	103160550	1.19	1.51	1.02	1.35	0.99	1.12	42.53	51.24	38.50	45.20	36.22	41.13
transmembrane protein FLJ37396	LOC103160551	103160551	0.23	0.27	0.22	0.19	0.16	0.31	36.46	37.52	34.78	38.24	32.08	42.99
zinc finger protein 410 pseudogene	LOC103160552	103160552	0.00	0.00	0.04	0.00	0.00	0.03	0.00	0.00	1.24	0.00	0.00	0.93
60S ribosomal protein L3 pseudogene	LOC103160554	103160554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160555	LOC103160555	103160555	0.49	0.70	0.60	0.42	0.59	0.72	17.47	21.05	21.12	18.54	22.77	26.17
non-POU domain-containing octamer-binding protein pseudogene	LOC103160557	103160557	6.76	5.36	6.14	7.89	7.90	8.73	278.75	219.61	254.63	318.70	319.81	355.17
uncharacterized LOC103160558	LOC103160558	103160558	0.04	0.07	0.04	0.04	0.10	0.06	3.04	4.58	2.48	2.32	6.21	5.61
N-alpha-acetyltransferase 15, NatA auxiliary subunit pseudogene	LOC103160559	103160559	0.75	0.88	0.66	0.66	0.67	0.59	53.17	61.31	47.20	47.52	49.68	42.99
uncharacterized LOC103160566	LOC103160566	103160566	0.35	0.21	0.06	0.27	0.29	0.39	9.11	8.24	1.24	9.27	10.35	14.95
uncharacterized LOC103160567	LOC103160567	103160567	0.58	0.60	0.67	0.09	0.97	1.20	9.87	9.15	12.42	2.32	16.56	17.76

uncharacterized LOC103160568	LOC103160568	103160568	0.74	0.68	0.35	0.49	0.50	0.61	72.92	75.03	39.75	53.31	50.71	57.01
uncharacterized LOC103160569	LOC103160569	103160569	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioredoxin domain-containing protein 2-like	LOC103160570	103160570	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103160572	LOC103160572	103160572	3.01	3.44	2.80	3.15	3.80	4.13	199.00	214.12	175.13	200.49	255.64	253.30
uncharacterized LOC103160574	LOC103160574	103160574	3.77	3.91	3.34	3.93	1.51	1.29	265.84	251.63	221.09	251.49	104.53	93.47
Ig heavy chain V-II region COR-like	LOC103160580	103160580	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103160583	LOC103160583	103160583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pleckstrin homology domain-containing family F member 1-like	LOC103160584	103160584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160587	LOC103160587	103160587	5.51	5.25	4.81	5.00	5.81	5.00	347.11	344.05	304.31	331.45	380.87	313.11
uncharacterized LOC103160588	LOC103160588	103160588	0.09	0.05	0.07	0.07	0.24	0.05	1.52	4.58	4.97	2.32	7.24	1.87
uncharacterized LOC103160593	LOC103160593	103160593	1.08	1.38	1.00	1.49	1.50	1.61	16.71	17.39	31.05	25.50	28.98	36.45
peptidyl-prolyl cis-trans isomerase A-like	LOC103160594	103160594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160595	LOC103160595	103160595	2.39	2.63	1.64	1.77	2.82	3.35	73.68	81.44	54.65	50.99	90.04	109.36
uncharacterized LOC103160599	LOC103160599	103160599	31.22	29.56	22.80	23.48	25.54	26.14	1307.93	1249.94	981.25	1019.85	1059.83	1129.08
HERV-F(c)1_Xq21.33 provirus ancestral Gag polyprotein-like	LOC103160600	103160600	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103160601	LOC103160601	103160601	0.07	0.17	0.12	0.23	0.00	0.09	1.52	1.83	1.24	2.32	0.00	1.87
transmembrane protein 217-like	LOC103160602	103160602	0.06	0.13	0.00	0.00	0.08	0.00	0.76	2.75	1.24	0.00	1.03	0.00
uncharacterized LOC103160604	LOC103160604	103160604	0.15	0.26	0.06	0.11	0.05	0.18	6.08	6.41	1.24	3.48	3.10	4.67

uncharacterized LOC103160605	LOC103160605	103160605	1.01	1.56	1.37	1.45	2.14	2.03	55.45	53.07	68.31	68.38	89.01	92.53
uncharacterized LOC103160606	LOC103160606	103160606	2.73	2.40	1.45	1.86	2.98	2.52	408.63	359.61	233.51	290.89	445.04	386.95
uncharacterized LOC103160607	LOC103160607	103160607	0.00	0.10	0.00	0.00	0.12	0.00	0.00	0.92	0.00	0.00	3.10	1.87
uncharacterized LOC103160608	LOC103160608	103160608	12.82	12.80	0.29	0.23	0.03	0.06	476.99	501.44	12.42	10.43	2.07	4.67
uncharacterized LOC103160609	LOC103160609	103160609	0.76	0.46	0.00	0.00	0.00	0.00	9.87	13.73	0.00	0.00	0.00	0.00
interferon alpha-2-like	LOC103160612	103160612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taste receptor type 2 member 14-like	LOC103160616	103160616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160620	LOC103160620	103160620	0.51	0.44	0.36	0.23	0.30	0.28	9.11	6.41	9.94	5.79	3.10	6.54
uncharacterized LOC103160622	LOC103160622	103160622	10.88	13.00	11.45	11.02	15.98	10.45	61.52	75.95	65.83	61.42	79.69	71.97
uncharacterized LOC103160623	LOC103160623	103160623	2.57	3.16	2.92	3.58	4.25	4.18	182.29	220.52	231.03	242.21	288.76	298.16
uncharacterized LOC103160624	LOC103160624	103160624	0.72	0.46	0.39	0.30	0.13	0.18	15.95	10.07	7.45	9.27	5.17	5.61
uncharacterized LOC103160625	LOC103160625	103160625	3.13	3.37	1.43	1.97	1.77	2.01	313.69	312.03	163.96	199.33	196.65	202.82
uncharacterized LOC103160626	LOC103160626	103160626	0.85	0.51	0.36	0.00	0.61	0.00	4.56	1.83	3.73	1.16	4.14	0.93
60S ribosomal protein L17 pseudogene	LOC103160629	103160629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC103160630	103160630	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160632	LOC103160632	103160632	0.86	0.67	0.63	0.47	0.34	0.38	32.66	27.45	27.33	15.07	13.45	12.15
uncharacterized LOC103160633	LOC103160633	103160633	0.07	0.08	0.05	0.05	0.16	0.19	3.80	4.58	2.48	3.48	7.24	12.15
uncharacterized LOC103160634	LOC103160634	103160634	0.00	0.00	0.26	0.00	0.22	0.21	2.28	2.75	3.73	1.16	4.14	3.74

uncharacterized LOC103160635	LOC103160635	103160635	0.87	0.48	0.00	0.00	0.28	0.26	11.39	6.41	0.00	2.32	1.03	4.67
uncharacterized LOC103160641	LOC103160641	103160641	0.37	0.34	0.24	0.00	0.00	0.37	9.11	8.24	3.73	5.79	0.00	1.87
microtubule-associated serine/threonine-protein kinase 4-like	LOC103160642	103160642	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tudor and KH domain-containing protein pseudogene	LOC103160643	103160643	0.59	0.48	1.07	2.08	1.67	1.58	6.84	8.24	17.39	35.93	30.01	27.11
uncharacterized LOC103160645	LOC103160645	103160645	0.73	0.89	0.76	0.67	1.26	0.89	53.93	66.80	53.41	48.67	84.87	73.84
threonine aspartase 1-like	LOC103160649	103160649	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	1.03	3.74
uncharacterized LOC103160653	LOC103160653	103160653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
uncharacterized LOC103160655	LOC103160655	103160655	13.85	14.28	13.04	12.48	25.03	22.38	439.01	453.86	443.43	394.03	786.59	728.11
uncharacterized LOC103160656	LOC103160656	103160656	0.27	0.33	0.23	0.00	0.19	0.18	11.39	10.98	4.97	15.07	7.24	18.69
chromosome unknown open reading frame, human C15orf62	LOC103160658	103160658	5.15	4.74	5.52	4.23	4.22	4.64	552.94	502.35	587.51	463.57	450.22	496.31
protein phosphatase 1 regulatory subunit 14D	LOC103160659	103160659	0.20	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103160660	LOC103160660	103160660	0.10	0.06	0.17	0.00	0.14	0.13	5.32	4.58	2.48	0.00	6.21	3.74
uncharacterized LOC103160663	LOC103160663	103160663	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
60S ribosomal protein L30-like	LOC103160665	103160665	0.09	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	2.07	0.00
uncharacterized LOC103160666	LOC103160666	103160666	0.19	0.14	0.08	0.14	0.03	0.06	6.84	5.49	3.73	5.79	1.03	5.61
uncharacterized LOC103160668	LOC103160668	103160668	0.16	0.00	0.26	0.13	0.11	0.00	3.80	1.83	2.48	1.16	5.17	2.80
nuclease-sensitive element-binding protein 1 pseudogene	LOC103160669	103160669	0.09	0.17	0.08	0.22	0.13	0.24	3.80	15.56	6.21	6.95	13.45	6.54
high mobility group protein B1-like	LOC103160670	103160670	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.92	0.00	0.00	0.00	2.80

uncharacterized LOC103160678	LOC103160678	103160678	1.28	1.16	0.90	0.74	0.74	0.72	130.64	123.53	98.12	69.54	76.59	72.90
proteasome subunit beta type-6 pseudogene	LOC103160679	103160679	1.85	1.69	1.38	1.67	1.45	1.27	60.00	53.07	43.47	52.15	45.54	38.32
uncharacterized LOC103160682	LOC103160682	103160682	1.37	1.73	0.91	1.28	1.37	1.74	117.73	129.02	122.97	130.96	148.00	168.24
uncharacterized LOC103160683	LOC103160683	103160683	0.38	0.13	0.18	0.00	0.30	0.14	9.87	4.58	4.97	1.16	6.21	2.80
uncharacterized LOC103160685	LOC103160685	103160685	0.15	0.09	0.12	0.35	0.00	0.18	0.76	0.92	1.24	0.00	1.03	0.00
uncharacterized LOC103160686	LOC103160686	103160686	0.00	0.00	0.00	0.00	0.43	0.00	0.76	1.83	0.00	0.00	1.03	0.00
uncharacterized LOC103160687	LOC103160687	103160687	0.10	0.06	0.01	0.01	0.02	0.01	15.95	10.07	2.48	1.16	3.10	0.93
uncharacterized LOC103160688	LOC103160688	103160688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
60S ribosomal protein L4 pseudogene	LOC103160689	103160689	15.80	16.73	17.88	16.92	16.61	14.30	340.27	366.01	380.08	366.22	360.18	289.75
uncharacterized LOC103160691	LOC103160691	103160691	0.53	0.31	0.12	0.11	0.26	0.15	22.03	12.81	4.97	4.64	9.31	7.48
spermatogenesis-associated protein 31E1-like	LOC103160692	103160692	0.00	0.04	0.00	0.00	0.01	0.00	0.00	2.75	0.00	0.00	1.03	0.00
uncharacterized LOC103160693	LOC103160693	103160693	0.69	1.33	0.45	1.00	0.70	0.97	21.27	31.11	14.91	27.81	25.87	24.30
uncharacterized LOC103160695	LOC103160695	103160695	0.02	0.09	0.06	0.03	0.00	0.07	6.84	7.32	8.69	2.32	8.28	7.48
uncharacterized LOC103160696	LOC103160696	103160696	0.00	0.28	0.00	0.00	0.16	0.00	0.00	2.75	2.48	2.32	2.07	0.00
uncharacterized LOC103160697	LOC103160697	103160697	0.00	0.48	0.00	0.00	0.00	0.00	5.32	3.66	2.48	0.00	2.07	0.00
uncharacterized LOC103160699	LOC103160699	103160699	0.05	0.13	0.00	0.16	0.00	0.07	3.04	4.58	1.24	3.48	1.03	0.93
oligoribonuclease, mitochondrial pseudogene	LOC103160706	103160706	0.06	0.21	0.00	0.09	0.08	0.22	0.76	2.75	0.00	1.16	1.03	2.80
uncharacterized LOC103160709	LOC103160709	103160709	0.23	0.28	0.31	0.47	0.50	0.20	5.32	5.49	4.97	4.64	9.31	1.87

40S ribosomal protein S27-like	LOC103160711	103160711	1.04	0.89	0.79	0.67	1.20	0.68	12.15	7.32	14.91	9.27	12.42	9.35
pleiotropic regulator 1 pseudogene	LOC103160712	103160712	0.16	0.10	0.08	0.10	0.12	0.18	6.84	5.49	2.48	4.64	6.21	7.48
barH-like 1 homeobox protein	LOC103160713	103160713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
submaxillary mucin-like protein	LOC103160714	103160714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pleckstrin homology domain-containing family A member 3 pseudogene	LOC103160715	103160715	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA-binding protein pseudogene	LOC103160717	103160717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4-like	LOC103160719	103160719	0.70	0.43	1.23	1.27	1.03	0.50	1.52	0.92	2.48	2.32	2.07	0.93
uncharacterized LOC103160722	LOC103160722	103160722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160726	LOC103160726	103160726	0.25	0.18	0.16	0.00	0.07	0.00	9.11	7.32	4.97	4.64	8.28	2.80
uncharacterized LOC103160728	LOC103160728	103160728	0.24	0.26	0.15	0.18	0.20	0.15	11.39	12.81	6.21	9.27	11.38	8.41
uncharacterized LOC103160729	LOC103160729	103160729	0.50	0.60	0.00	0.40	0.35	0.53	12.15	9.15	3.73	10.43	6.21	6.54
40S ribosomal protein SA pseudogene	LOC103160730	103160730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160731	LOC103160731	103160731	9.85	7.17	5.90	6.68	6.34	7.40	192.92	171.11	144.08	143.71	154.21	155.16
uncharacterized LOC103160732	LOC103160732	103160732	0.34	0.00	0.28	0.09	0.32	0.07	7.60	6.41	7.45	3.48	8.28	5.61
nucleoporin GLE1 pseudogene	LOC103160735	103160735	0.86	0.99	0.93	0.67	1.09	1.12	48.61	55.82	53.41	35.93	63.13	63.56
uncharacterized LOC103160736	LOC103160736	103160736	0.03	0.00	0.00	0.14	0.08	0.07	3.04	2.75	0.00	5.79	3.10	2.80
uncharacterized LOC103160738	LOC103160738	103160738	0.00	0.00	0.00	0.00	0.13	0.11	0.00	0.00	0.00	0.00	1.03	0.93
uncharacterized LOC103160739	LOC103160739	103160739	1.95	1.69	2.72	1.86	1.55	1.52	148.11	133.59	208.67	141.39	119.02	128.98

non-histone chromosomal protein HMG-14-like	LOC103160740	103160740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160742	LOC103160742	103160742	10.61	10.05	7.93	8.03	8.60	7.92	241.53	246.14	219.85	215.56	241.15	210.30
uncharacterized LOC103160753	LOC103160753	103160753	1.05	0.95	0.54	0.91	0.91	0.57	25.82	30.20	13.66	26.66	25.87	17.76
uncharacterized LOC103160757	LOC103160757	103160757	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermidine synthase pseudogene	LOC103160758	103160758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160759	LOC103160759	103160759	0.34	0.31	0.00	0.00	0.00	0.00	18.23	21.96	1.24	0.00	0.00	0.00
uncharacterized LOC103160761	LOC103160761	103160761	10.45	8.34	0.40	0.13	0.08	0.21	176.21	156.47	4.97	2.32	1.03	2.80
selenoprotein H pseudogene	LOC103160762	103160762	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	1.87
igE-binding protein-like	LOC103160763	103160763	1.23	1.64	97.60	91.95	90.73	99.18	65.32	89.67	5122.37	4749.25	4617.07	5126.66
uncharacterized LOC103160764	LOC103160764	103160764	0.09	0.10	0.07	0.00	0.06	0.00	2.28	1.83	1.24	0.00	2.07	0.93
uncharacterized LOC103160767	LOC103160767	103160767	0.09	0.22	0.00	0.00	0.25	0.00	2.28	1.83	1.24	1.16	2.07	0.00
uncharacterized LOC103160768	LOC103160768	103160768	0.52	0.42	0.29	0.59	0.43	0.43	16.71	12.81	9.94	18.54	11.38	12.15
uncharacterized LOC103160769	LOC103160769	103160769	0.23	0.07	0.14	0.33	0.32	0.25	9.11	4.58	7.45	17.38	13.45	14.95
uncharacterized LOC103160770	LOC103160770	103160770	0.26	0.00	0.45	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
uncharacterized LOC103160771	LOC103160771	103160771	0.36	0.31	0.23	0.31	0.21	0.20	24.31	21.05	18.63	18.54	12.42	14.02
uncharacterized LOC103160775	LOC103160775	103160775	5.96	5.39	9.28	8.82	3.39	1.13	59.24	63.14	141.60	120.53	89.01	113.10
macrophage scavenger receptor types I and II pseudogene	LOC103160776	103160776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160777	LOC103160777	103160777	0.42	0.54	0.55	0.48	0.51	0.81	22.03	28.37	27.33	35.93	36.22	48.60

uncharacterized LOC103160778	LOC103160778	103160778	0.19	0.16	0.05	0.20	0.10	0.11	29.62	28.37	9.94	18.54	19.66	20.56
glyceraldehyde-3-phosphate dehydrogenase-like	LOC103160779	103160779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor beta-1 chain C region-like	LOC103160780	103160780	0.00	0.00	0.00	0.00	0.00	0.00						
semaphorin-3E-like	LOC103160781	103160781	0.38	0.21	0.48	0.27	0.56	0.69	11.39	9.15	17.39	10.43	16.56	19.63
60S ribosomal protein L36a-like	LOC103160784	103160784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger matrin-type protein 2 pseudogene	LOC103160788	103160788	0.12	0.30	0.28	0.33	0.41	0.19	3.04	7.32	7.45	8.11	10.35	8.41
protein polybromo-1-like	LOC103160794	103160794	2.74	1.99	2.87	2.79	2.08	1.91	3.04	2.75	4.97	3.48	0.00	0.93
40S ribosomal protein SA pseudogene	LOC103160796	103160796	0.07	0.04	0.03	0.08	0.07	0.00	3.04	1.83	1.24	3.48	3.10	0.00
uncharacterized LOC103160799	LOC103160799	103160799	0.07	0.06	0.03	0.08	0.02	0.05	6.84	3.66	2.48	6.95	1.03	3.74
uncharacterized LOC103160802	LOC103160802	103160802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L39-like	LOC103160803	103160803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160804	LOC103160804	103160804	0.39	0.32	0.56	0.79	0.74	0.79	21.27	21.96	29.81	41.72	45.54	44.86
cytochrome c-like	LOC103160806	103160806	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160807	LOC103160807	103160807	0.29	0.37	0.37	0.51	0.39	0.27	19.75	27.45	27.33	32.45	23.80	16.82
60S ribosomal protein L37 pseudogene	LOC103160808	103160808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S23 pseudogene	LOC103160809	103160809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160811	LOC103160811	103160811	1.90	1.61	0.41	0.71	0.33	0.43	110.89	103.40	31.05	42.88	22.77	28.04
rhox homeobox family member 1-like	LOC103160812	103160812	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103160814	LOC103160814	103160814	0.54	0.44	0.79	0.95	0.50	1.59	22.03	14.64	17.39	20.86	18.63	36.45
histone deacetylase 1 pseudogene	LOC103160815	103160815	1.00	1.07	1.12	1.30	1.18	1.31	160.26	169.28	176.38	208.61	193.54	205.63
40S ribosomal protein S2 pseudogene	LOC103160819	103160819	0.13	0.00	0.00	0.10	0.00	0.08	1.52	0.00	1.24	1.16	0.00	0.93
40S ribosomal protein S2 pseudogene	LOC103160820	103160820	0.05	0.00	0.30	0.07	0.13	0.28	1.52	0.92	7.45	3.48	4.14	6.54
uncharacterized protein C12orf73 homolog	LOC103160821	103160821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC103160822	103160822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160823	LOC103160823	103160823	0.19	0.23	0.32	0.00	0.00	0.00	0.76	4.58	1.24	0.00	3.10	0.93
60S ribosomal protein L26 pseudogene	LOC103160824	103160824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160827	LOC103160827	103160827	4.07	4.38	1.80	2.20	2.55	2.94	741.31	785.10	316.73	406.78	454.36	517.81
uncharacterized LOC103160828	LOC103160828	103160828	0.48	0.12	0.00	0.00	0.00	0.12	5.32	3.66	0.00	2.32	2.07	0.93
uncharacterized LOC103160829	LOC103160829	103160829	0.09	0.13	0.09	0.14	0.00	0.00	4.56	5.49	2.48	2.32	0.00	0.00
gastrula zinc finger protein XlCGF9.1-like	LOC103160831	103160831	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160833	LOC103160833	103160833	3.38	3.83	2.74	2.73	2.88	3.48	37.98	48.50	31.05	30.13	34.15	42.06
uncharacterized LOC103160835	LOC103160835	103160835	0.45	0.38	0.00	0.00	0.00	0.00	25.06	20.13	0.00	0.00	0.00	0.00
uncharacterized LOC103160836	LOC103160836	103160836	0.11	0.06	0.04	0.04	0.07	0.03	3.04	2.75	1.24	1.16	2.07	0.93
uncharacterized LOC103160837	LOC103160837	103160837	6.20	5.72	7.06	8.10	9.67	9.21	450.41	409.02	511.74	582.94	689.30	658.94
nuclear pore complex protein Nup50-like	LOC103160839	103160839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160844	LOC103160844	103160844	0.48	0.38	0.20	0.22	0.38	0.29	47.09	34.77	17.39	19.70	39.33	33.65

uncharacterized LOC103160850	LOC103160850	103160850	0.21	0.00	0.58	0.11	0.19	0.18	2.28	1.83	6.21	3.48	4.14	1.87
low-density lipoprotein receptor-related protein 8-like	LOC103160851	103160851	0.04	0.05	0.02	0.02	0.02	0.10	2.28	2.75	1.24	1.16	1.03	5.61
very low-density lipoprotein receptor-like	LOC103160853	103160853	0.02	0.04	0.12	0.11	0.09	0.04	3.04	6.41	16.15	12.75	11.38	5.61
uncharacterized LOC103160856	LOC103160856	103160856	2.42	0.00	0.00	0.00	3.87	4.20	2.28	0.92	1.24	1.16	2.07	0.93
E3 ubiquitin-protein ligase KCMF1 pseudogene	LOC103160857	103160857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160858	LOC103160858	103160858	2.25	2.38	0.91	0.92	0.31	0.35	156.47	184.84	70.80	74.17	22.77	22.43
uncharacterized LOC103160859	LOC103160859	103160859	2.52	2.47	2.06	2.75	2.96	2.37	173.17	179.35	141.60	197.02	200.79	172.91
uncharacterized LOC103160860	LOC103160860	103160860	2.38	2.41	2.04	2.58	3.46	3.41	456.48	458.43	367.66	492.54	588.91	633.71
uncharacterized LOC103160861	LOC103160861	103160861	0.61	0.77	0.68	0.77	1.12	1.13	22.79	28.37	24.84	31.29	43.47	42.99
uncharacterized LOC103160862	LOC103160862	103160862	1.97	2.00	0.69	3.01	2.04	1.46	18.23	16.47	9.94	25.50	18.63	15.89
60S ribosomal protein L21 pseudogene	LOC103160865	103160865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial pseudogene	LOC103160867	103160867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-beta pseudogene	LOC103160869	103160869	0.25	0.40	0.19	0.21	0.15	0.21	4.56	10.07	4.97	8.11	6.21	6.54
uncharacterized LOC103160870	LOC103160870	103160870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine protease 52-like	LOC103160871	103160871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160875	LOC103160875	103160875	0.24	0.19	0.06	0.07	0.01	0.03	32.66	27.45	9.94	9.27	1.03	2.80
uncharacterized LOC103160876	LOC103160876	103160876	0.10	0.00	0.00	0.34	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.93
uncharacterized protein DDB_G0271670-like	LOC103160878	103160878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103160880	LOC103160880	103160880	3.99	3.31	3.22	4.07	3.26	3.72	446.61	385.23	387.53	471.68	391.22	420.60
elongation factor 1-alpha 1 pseudogene	LOC103160881	103160881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17-like	LOC103160883	103160883	0.45	0.10	0.99	0.25	0.59	0.38	3.04	0.00	8.69	2.32	6.21	4.67
putative ribosomal RNA-processing protein 7 homolog B	LOC103160886	103160886	15.90	16.70	21.91	15.08	10.06	11.82	26.58	32.94	47.20	56.79	40.36	51.41
uncharacterized LOC103160888	LOC103160888	103160888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160889	LOC103160889	103160889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103160893	LOC103160893	103160893	0.19	0.27	0.00	0.17	0.00	0.14	6.84	8.24	0.00	3.48	0.00	5.61
uncharacterized LOC103160895	LOC103160895	103160895	0.22	0.27	0.00	1.06	0.00	0.00	2.28	5.49	2.48	3.48	4.14	2.80
EF-hand calcium-binding domain-containing protein 8	LOC103160902	103160902	0.17	0.10	0.04	0.01	0.08	0.04	23.55	17.39	7.45	3.48	15.52	7.48
uncharacterized LOC103160903	LOC103160903	103160903	0.00	0.00	0.00	0.08	0.00	0.00	0.76	3.66	0.00	1.16	1.03	0.00
uncharacterized LOC103160911	LOC103160911	103160911	0.24	0.14	0.20	0.39	0.00	0.15	2.28	1.83	2.48	2.32	0.00	0.93
POU domain, class 5, transcription factor 1 pseudogene	LOC103160914	103160914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit e, mitochondrial-like	LOC103160915	103160915	1.74	2.22	1.43	1.17	0.93	1.49	29.62	34.77	24.84	17.38	16.56	27.11
olfactory receptor 6C4-like	LOC103160918	103160918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160919	LOC103160919	103160919	4.29	4.03	3.68	3.61	4.72	4.64	700.30	629.54	617.32	723.17	1050.51	941.21
uncharacterized LOC103160920	LOC103160920	103160920	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160921	LOC103160921	103160921	0.04	0.27	0.18	0.07	0.34	0.11	3.04	7.32	6.21	2.32	7.24	3.74
uncharacterized LOC103160922	LOC103160922	103160922	0.03	0.12	0.00	0.05	0.13	0.08	3.04	3.66	2.48	2.32	6.21	1.87

uncharacterized LOC103160923	LOC103160923	103160923	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC103160924	103160924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 50A pseudogene	LOC103160925	103160925	15.31	15.22	14.42	14.86	16.70	16.69	104.82	122.61	111.79	88.08	97.29	113.10
60S ribosomal protein L15 pseudogene	LOC103160926	103160926	0.61	1.25	0.91	0.67	0.85	0.58	7.60	14.64	11.18	8.11	10.35	6.54
60S ribosomal protein L7-like	LOC103160927	103160927	0.03	0.00	0.00	0.00	0.09	0.00	1.52	0.00	1.24	0.00	2.07	0.00
uncharacterized LOC103160929	LOC103160929	103160929	0.08	0.05	0.00	0.03	0.00	0.03	13.67	10.07	1.24	3.48	2.07	3.74
Ig heavy chain V region 3-like	LOC103160939	103160939	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103160941	103160941	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103160943	LOC103160943	103160943	0.09	0.06	0.06	0.08	0.09	0.15	6.08	5.49	3.73	8.11	9.31	10.28
uncharacterized LOC103160946	LOC103160946	103160946	3.42	3.62	0.14	0.16	0.05	0.04	110.89	129.93	4.97	5.79	3.10	1.87
uncharacterized LOC103160947	LOC103160947	103160947	0.39	0.28	0.15	0.00	0.00	0.05	19.75	21.96	6.21	4.64	4.14	4.67
uncharacterized LOC103160948	LOC103160948	103160948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160951	LOC103160951	103160951	1.49	1.67	0.33	0.35	0.06	0.08	103.30	104.31	17.39	23.18	2.07	6.54
HERV-F(c)1_Xq21.33 provirus ancestral Gag polyprotein-like	LOC103160953	103160953	0.00	0.02	0.00	0.02	0.01	0.02	0.00	0.00	0.00	1.16	1.03	0.93
uncharacterized LOC103160957	LOC103160957	103160957	3.18	3.20	2.93	2.85	3.37	2.89	259.00	258.95	240.96	236.42	258.75	244.88
keratin-associated protein 6-2	LOC103160960	103160960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 19-3-like	LOC103160961	103160961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160963	LOC103160963	103160963	0.94	0.94	1.04	1.00	1.78	1.27	59.24	55.82	63.35	57.95	95.22	78.51

uncharacterized LOC103160964	LOC103160964	103160964	0.06	0.07	0.11	0.19	0.20	0.17	10.63	10.98	19.87	27.81	35.19	27.11
uncharacterized LOC103160968	LOC103160968	103160968	0.12	0.03	0.09	0.13	0.20	0.00	11.39	9.15	14.91	10.43	16.56	10.28
60S ribosomal protein L18a pseudogene	LOC103160973	103160973	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
histone-lysine N-methyltransferase 2D-like	LOC103160974	103160974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline-rich protein 23-like	LOC103160975	103160975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103160984	LOC103160984	103160984	0.32	0.49	0.36	0.00	0.00	0.24	8.35	7.32	7.45	0.00	2.07	4.67
uncharacterized LOC103160985	LOC103160985	103160985	0.11	0.03	0.00	0.00	0.06	0.10	6.84	3.66	0.00	1.16	4.14	9.35
60S ribosomal protein L17 pseudogene	LOC103160986	103160986	0.00	0.00	0.00	0.13	0.00	0.10	0.00	0.00	0.00	2.32	0.00	0.93
serine/arginine-rich splicing factor 3 pseudogene	LOC103160990	103160990	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.93
Ig heavy chain V-III region VH26-like	LOC103160994	103160994	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161007	LOC103161007	103161007	0.00	0.62	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	1.87
uncharacterized LOC103161022	LOC103161022	103161022	1.17	1.11	0.85	0.85	0.91	1.15	151.91	155.56	100.61	113.57	105.57	142.07
tubulin alpha-1A chain pseudogene	LOC103161024	103161024	0.10	0.20	0.17	0.15	0.21	0.19	9.11	13.73	12.42	11.59	13.45	14.02
uncharacterized LOC103161025	LOC103161025	103161025	0.30	0.00	0.00	0.00	0.00	0.19	3.80	2.75	3.73	6.95	2.07	0.93
transmembrane protein 64	LOC103161026	103161026	2.33	2.53	3.19	3.35	3.43	3.38	256.72	275.43	355.24	373.17	373.63	367.33
uncharacterized LOC103161027	LOC103161027	103161027	0.15	0.13	0.04	0.03	0.00	0.03	9.11	10.07	1.24	1.16	0.00	0.93
60S ribosomal protein L28 pseudogene	LOC103161029	103161029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161030	LOC103161030	103161030	0.03	0.04	0.00	0.00	0.00	0.04	0.76	0.92	0.00	0.00	0.00	0.93

olfactory receptor 1361-like	LOC103161035	103161035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37a-like	LOC103161039	103161039	2.22	0.89	0.94	0.62	0.47	2.42	29.62	11.90	13.66	8.11	6.21	32.71
uncharacterized LOC103161040	LOC103161040	103161040	0.39	0.94	0.22	0.00	0.18	0.50	3.80	8.24	4.97	3.48	7.24	7.48
uncharacterized LOC103161041	LOC103161041	103161041	7.68	8.63	6.76	7.65	10.45	10.08	754.98	847.32	663.27	779.95	1009.11	987.01
putative ciliary rootlet coiled-coil protein-like 3 protein	LOC103161042	103161042	0.01	0.01	0.00	0.00	0.00	0.00	3.80	7.32	0.00	0.00	0.00	0.00
uncharacterized LOC103161044	LOC103161044	103161044	0.64	0.43	0.26	0.23	0.42	0.65	15.95	12.81	6.21	8.11	14.49	17.76
putative uncharacterized protein ZNRD1-AS1 homolog	LOC103161045	103161045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103161046	LOC103161046	103161046	0.36	0.15	0.30	0.38	0.34	0.46	6.84	1.83	8.69	12.75	13.45	12.15
uncharacterized LOC103161047	LOC103161047	103161047	2.04	1.24	1.48	1.21	1.86	0.95	22.79	15.56	16.15	13.91	17.59	9.35
heat shock protein HSP 90-alpha pseudogene	LOC103161048	103161048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161050	LOC103161050	103161050	4.53	4.61	0.08	0.07	0.19	0.29	86.59	90.59	1.24	1.16	5.17	4.67
uncharacterized LOC103161051	LOC103161051	103161051	0.16	0.14	0.26	0.25	0.28	0.10	3.80	2.75	6.21	5.79	6.21	3.74
uncharacterized LOC103161053	LOC103161053	103161053	1.00	0.72	0.73	0.91	0.99	0.79	48.61	35.69	33.54	40.56	47.61	37.39
uncharacterized LOC103161054	LOC103161054	103161054	0.17	0.08	0.14	0.21	0.21	0.04	8.35	5.49	8.69	12.75	10.35	4.67
uncharacterized LOC103161056	LOC103161056	103161056	5.20	3.79	3.65	1.02	1.09	0.63	123.05	98.82	85.70	24.34	15.52	15.89
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC103161057	103161057	0.09	0.14	0.22	0.00	0.36	0.00	0.76	0.92	1.24	0.00	1.03	0.00
uncharacterized LOC103161061	LOC103161061	103161061	0.05	0.00	0.00	0.08	0.00	0.07	1.52	1.83	0.00	1.16	0.00	0.93
uncharacterized LOC103161062	LOC103161062	103161062	1.32	1.69	0.97	0.82	1.95	1.49	21.27	24.71	11.18	15.07	25.87	21.50

uncharacterized protein KIAA1644 homolog	LOC103161063	103161063	0.37	0.28	0.36	0.27	0.48	0.59	18.99	16.47	19.87	16.22	25.87	33.65
alpha-protein kinase 3-like	LOC103161064	103161064	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
60S ribosomal protein L10-like	LOC103161065	103161065	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC103161066	103161066	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161069	LOC103161069	103161069	0.04	0.05	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	2.07	0.93
60S ribosomal protein L36a-like	LOC103161070	103161070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161073	LOC103161073	103161073	0.49	0.25	0.26	0.19	0.38	0.24	5.32	3.66	3.73	1.16	0.00	1.87
annexin A2 pseudogene	LOC103161074	103161074	0.05	0.00	0.04	0.04	0.15	0.07	3.04	0.00	2.48	1.16	4.14	2.80
uncharacterized LOC103161076	LOC103161076	103161076	0.37	0.45	0.53	0.75	0.64	0.60	56.97	68.63	86.95	118.21	97.29	97.21
40S ribosomal protein S6 pseudogene	LOC103161078	103161078	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.93
uncharacterized LOC103161079	LOC103161079	103161079	0.08	0.00	0.25	0.24	0.32	0.19	5.32	2.75	22.36	17.38	32.08	32.71
uncharacterized LOC103161080	LOC103161080	103161080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
butyrophilin-like protein 2	LOC103161082	103161082	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103161083	LOC103161083	103161083	0.20	0.36	0.00	0.16	0.00	0.13	2.28	2.75	0.00	1.16	2.07	0.93
lysophosphatidylcholine acyltransferase 1	LOC103161085	103161085	1.18	0.72	0.76	1.04	0.64	0.41	19.75	9.15	22.36	13.91	8.28	10.28
uncharacterized LOC103161092	LOC103161092	103161092	35.98	30.44	26.94	31.78	28.05	28.76	349.39	295.56	255.87	287.41	257.71	275.73
uncharacterized LOC103161094	LOC103161094	103161094	0.23	0.32	0.23	0.25	0.33	0.40	22.79	27.45	19.87	26.66	32.08	42.99
uncharacterized LOC103161096	LOC103161096	103161096	1.79	1.73	1.89	2.18	2.35	2.41	123.05	127.19	137.87	156.45	166.63	170.11

uncharacterized LOC103161097	LOC103161097	103161097	0.39	0.06	0.64	0.53	0.94	0.67	5.32	0.92	9.94	9.27	18.63	15.89
uncharacterized LOC103161098	LOC103161098	103161098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel subfamily M member 6-like	LOC103161099	103161099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
transient receptor potential cation channel subfamily M member 6-like	LOC103161100	103161100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel subfamily M member 6-like	LOC103161101	103161101	0.02	0.00	0.03	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
transient receptor potential cation channel subfamily M member 6-like	LOC103161102	103161102	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
membrane protein FAM174A	LOC103161103	103161103	24.48	27.04	31.25	32.62	37.76	38.02	426.86	463.01	529.13	550.49	649.97	642.12
uncharacterized LOC103161105	LOC103161105	103161105	27.41	22.56	12.75	12.33	14.65	13.82	529.40	427.32	226.06	239.90	264.96	259.84
uncharacterized LOC103161106	LOC103161106	103161106	0.98	1.19	0.24	0.46	0.80	0.55	22.03	23.79	12.42	11.59	26.91	18.69
uncharacterized LOC103161108	LOC103161108	103161108	3.60	3.67	2.46	2.13	2.91	2.89	94.18	93.33	68.31	57.95	75.55	74.77
zinc finger protein 878-like	LOC103161110	103161110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L36a-like	LOC103161112	103161112	3.51	3.79	2.92	3.20	3.85	4.14	424.58	459.35	358.96	385.92	437.80	491.64
nucleoporin seh1-like	LOC103161114	103161114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
uncharacterized LOC103161117	LOC103161117	103161117	8.24	7.08	7.75	7.09	10.37	10.60	173.17	142.75	156.50	147.18	213.21	225.26
uncharacterized LOC103161118	LOC103161118	103161118	0.30	0.49	0.24	0.27	0.36	0.38	20.51	37.52	19.87	24.34	25.87	28.04
ribose-phosphate pyrophosphokinase 1 pseudogene	LOC103161120	103161120	43.12	43.09	37.83	31.73	23.37	27.64	814.23	809.80	725.38	579.46	438.83	500.98
60S ribosomal protein L38 pseudogene	LOC103161124	103161124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103161127	LOC103161127	103161127	14.78	14.06	26.17	13.91	12.55	15.37	110.13	107.97	172.65	96.19	92.11	113.10

ubiquitin carboxyl-terminal hydrolase 1-like	LOC103161134	103161134	0.28	0.37	0.35	0.22	0.47	0.26	15.95	25.62	24.84	12.75	28.98	17.76
uncharacterized LOC103161139	LOC103161139	103161139	0.08	0.09	0.06	0.06	0.13	0.14	4.56	6.41	2.48	4.64	8.28	6.54
uncharacterized LOC103161140	LOC103161140	103161140	0.33	0.32	0.32	0.30	0.56	0.50	30.38	29.28	27.33	24.34	50.71	48.60
hypoxia-inducible factor 1-alpha inhibitor pseudogene	LOC103161141	103161141	0.03	0.03	0.06	0.00	0.09	0.06	0.76	0.92	1.24	0.00	2.07	1.87
uncharacterized LOC103161144	LOC103161144	103161144	1.74	1.74	1.22	1.04	0.93	0.89	65.32	64.97	47.20	38.24	37.26	33.65
uncharacterized LOC103161146	LOC103161146	103161146	0.07	0.00	0.00	0.06	0.00	0.09	2.28	0.92	1.24	3.48	2.07	4.67
inverted formin-2-like	LOC103161149	103161149	10.90	11.38	9.15	7.55	9.07	7.39	300.78	314.77	236.00	214.40	230.80	231.80
uncharacterized LOC103161152	LOC103161152	103161152	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ferritin light chain 1 pseudogene	LOC103161153	103161153	0.05	0.25	0.08	0.24	0.14	0.26	1.52	6.41	1.24	3.48	4.14	5.61
uncharacterized LOC103161159	LOC103161159	103161159	0.15	0.20	0.05	0.03	0.09	0.10	9.11	13.73	7.45	3.48	8.28	6.54
disks large homolog 5-like	LOC103161166	103161166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161167	LOC103161167	103161167	0.04	0.19	0.07	0.13	0.16	0.10	6.08	7.32	1.24	6.95	8.28	2.80
Ig heavy chain V region 23-like	LOC103161173	103161173	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 23-like	LOC103161176	103161176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161179	LOC103161179	103161179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161182	LOC103161182	103161182	0.61	0.37	0.00	0.00	0.43	0.40	3.80	1.83	0.00	0.00	3.10	2.80
uncharacterized LOC103161183	LOC103161183	103161183	0.49	0.50	0.50	0.38	0.46	0.56	32.66	32.94	27.33	24.34	31.05	35.52
uncharacterized LOC103161184	LOC103161184	103161184	47.04	48.42	49.25	54.94	58.25	56.02	8315.44	8579.35	8767.89	9715.23	10187.37	9913.11

60S ribosomal protein L6 pseudogene	LOC103161185	103161185	1.40	0.99	0.57	0.70	1.32	0.46	19.75	15.56	7.45	9.27	19.66	6.54
60S ribosomal protein L37a-like	LOC103161190	103161190	1.72	2.68	0.84	0.00	2.48	0.00	9.11	12.81	6.21	6.95	9.31	3.74
binder of sperm protein homolog 1-like	LOC103161192	103161192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nicotinamide riboside kinase 1 pseudogene	LOC103161193	103161193	0.02	0.03	0.00	0.01	0.03	0.05	1.52	2.75	0.00	1.16	2.07	3.74
uncharacterized LOC103161194	LOC103161194	103161194	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Ig alpha chain C region-like	LOC103161200	103161200	0.00	0.00	0.00	0.00	0.00	0.00						
Ig epsilon chain C region-like	LOC103161201	103161201	0.00	0.00	0.00	0.00	0.03	0.00						
Ig gamma-2A chain C region, membrane-bound form-like	LOC103161202	103161202	0.00	0.00	0.00	0.00	0.00	0.00						
Ig gamma-1 chain C region, membrane-bound form-like	LOC103161203	103161203	0.00	0.00	0.00	0.00	0.00	0.00						
Ig gamma-3 chain C region-like	LOC103161204	103161204	0.00	0.00	0.00	0.00	0.00	0.00						
Ig mu chain C region-like	LOC103161205	103161205	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103161206	LOC103161206	103161206	0.06	0.07	0.09	0.09	0.38	0.14	0.76	0.92	2.48	2.32	7.24	1.87
tripartite motif-containing protein 43B-like	LOC103161208	103161208	0.36	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	1.16	0.00	0.93
Ig heavy chain V region 3-6-like	LOC103161212	103161212	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103161215	LOC103161215	103161215	1.92	1.01	0.71	1.03	1.19	1.36	11.39	5.49	4.97	8.11	7.24	7.48
uncharacterized LOC103161216	LOC103161216	103161216	0.08	0.05	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
uncharacterized LOC103161218	LOC103161218	103161218	1.06	0.49	0.48	0.74	0.71	0.73	32.66	21.05	13.66	24.34	18.63	21.50
peptidyl-prolyl cis-trans isomerase A-like	LOC103161219	103161219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103161220	LOC103161220	103161220	0.28	0.17	0.00	0.00	0.00	0.00	10.63	5.49	1.24	0.00	0.00	0.00
uncharacterized LOC103161222	LOC103161222	103161222	0.24	0.23	0.18	0.14	0.17	0.22	17.47	20.13	14.91	13.91	14.49	18.69
uncharacterized LOC103161223	LOC103161223	103161223	0.36	0.52	0.23	0.27	0.13	0.35	34.94	44.84	24.84	23.18	12.42	33.65
PRAME family member 22-like	LOC103161227	103161227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC103161230	103161230	0.06	0.04	0.00	0.00	0.00	0.00	12.15	14.64	6.21	2.32	10.35	4.67
uncharacterized LOC103161232	LOC103161232	103161232	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	2.07	0.93
uncharacterized LOC103161234	LOC103161234	103161234	0.32	0.19	0.06	0.17	0.10	0.23	9.11	5.49	4.97	9.27	14.49	11.22
uncharacterized LOC103161235	LOC103161235	103161235	2.77	2.19	2.92	2.37	2.11	1.58	85.07	57.65	75.77	68.38	66.24	50.47
uncharacterized LOC103161236	LOC103161236	103161236	9.64	9.16	9.44	8.54	11.06	10.06	151.15	151.90	141.60	141.39	167.67	160.76
uncharacterized LOC103161237	LOC103161237	103161237	0.26	0.41	0.00	0.13	0.18	0.16	6.08	10.07	2.48	2.32	4.14	4.67
non-histone chromosomal protein HMG-14 pseudogene	LOC103161238	103161238	0.61	0.32	0.73	0.14	0.37	0.22	18.23	22.88	19.87	11.59	22.77	9.35
uncharacterized LOC103161239	LOC103161239	103161239	2.12	2.87	1.47	2.04	2.12	1.78	0.76	0.92	1.24	0.00	1.03	0.00
peptidyl-prolyl cis-trans isomerase A pseudogene	LOC103161240	103161240	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
putative uncharacterized protein FLJ37770	LOC103161241	103161241	0.09	0.02	0.09	0.03	0.05	0.04	60.76	57.65	55.89	70.69	40.36	71.97
60S ribosomal protein L13-like	LOC103161245	103161245	0.55	1.10	0.67	0.51	0.73	0.36	9.11	19.22	11.18	8.11	11.38	6.54
uncharacterized LOC103161246	LOC103161246	103161246	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	2.32	0.00	2.80
single-stranded DNA-binding protein, mitochondrial pseudogene	LOC103161254	103161254	0.00	0.27	0.32	0.00	0.27	0.00	0.00	2.75	2.48	0.00	2.07	0.00
uncharacterized LOC103161256	LOC103161256	103161256	5.40	5.05	0.07	0.15	0.04	0.00	406.35	380.65	3.73	8.11	3.10	0.93

phosphoenolpyruvate carboxykinase [GTP], mitochondrial pseudogene	LOC103161259	103161259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161263	LOC103161263	103161263	0.14	0.33	0.15	0.21	0.25	0.23	3.04	7.32	2.48	3.48	4.14	4.67
uncharacterized LOC103161264	LOC103161264	103161264	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
small EDRK-rich factor 2 pseudogene	LOC103161265	103161265	0.65	0.26	0.74	0.00	0.31	0.00	3.04	3.66	3.73	1.16	3.10	0.93
cytochrome c oxidase subunit 6C-2	LOC103161269	103161269	119.14	109.23	145.11	132.55	120.06	117.72	508.89	452.94	578.81	476.32	472.99	436.49
uncharacterized LOC103161282	LOC103161282	103161282	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 480-like	LOC103161285	103161285	6.11	6.15	6.22	6.02	9.39	6.32	117.73	116.21	120.48	135.59	150.07	126.18
suppressor of cytokine signaling 5-like	LOC103161286	103161286	0.20	0.19	0.03	0.13	0.17	0.15	15.19	14.64	3.73	9.27	12.42	13.09
uncharacterized LOC103161288	LOC103161288	103161288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C10orf55	LOC103161290	103161290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161291	LOC103161291	103161291	0.05	0.00	0.00	0.16	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
vomeronasal type-2 receptor 116-like	LOC103161292	103161292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161296	LOC103161296	103161296	0.25	0.19	0.12	0.22	0.27	0.20	52.41	43.92	18.63	37.09	50.71	40.19
uncharacterized LOC103161297	LOC103161297	103161297	0.13	0.12	0.06	0.11	0.12	0.10	20.51	15.56	8.69	16.22	19.66	18.69
low-density lipoprotein receptor-related protein 12-like	LOC103161301	103161301	3.90	3.55	4.50	6.18	5.86	5.22	44.05	46.67	54.65	62.58	50.71	49.54
transcription elongation factor B polypeptide 2 pseudogene	LOC103161302	103161302	0.51	0.34	0.37	0.29	0.36	0.23	9.87	7.32	4.97	5.79	6.21	5.61
uncharacterized LOC103161306	LOC103161306	103161306	3.44	3.42	2.67	3.25	3.58	2.97	478.51	477.65	380.08	453.14	501.97	423.41
uncharacterized LOC103161307	LOC103161307	103161307	0.43	0.13	0.12	0.11	0.10	0.09	10.63	3.66	2.48	2.32	2.07	1.87

uncharacterized LOC103161308	LOC103161308	103161308	0.14	0.17	0.08	0.07	0.00	0.00	7.60	6.41	1.24	3.48	5.17	0.93
uncharacterized LOC103161309	LOC103161309	103161309	2.41	2.05	1.77	1.11	2.80	1.76	32.66	28.37	29.81	26.66	27.94	30.84
POU domain, class 5, transcription factor 1-like	LOC103161310	103161310	0.02	0.00	0.00	0.00	0.03	0.00	0.76	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103161312	LOC103161312	103161312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heat shock protein HSP 90-alpha pseudogene	LOC103161314	103161314	0.03	0.02	0.04	0.02	0.03	0.02	1.52	1.83	2.48	1.16	2.07	0.93
tubulin alpha-1 chain-like	LOC103161315	103161315	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103161316	LOC103161316	103161316	0.00	0.00	0.00	0.46	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
cortistatin-like	LOC103161317	103161317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 585A-like	LOC103161320	103161320	0.00	0.02	0.00	0.01	0.01	0.01	0.00	2.75	0.00	1.16	1.03	0.93
60S ribosomal protein L23a pseudogene	LOC103161325	103161325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161326	LOC103161326	103161326	4.67	4.40	4.57	3.02	3.94	4.62	130.64	124.44	124.21	81.12	109.71	123.38
60S ribosomal protein L12 pseudogene	LOC103161328	103161328	0.25	0.25	0.23	0.33	0.10	0.18	3.04	4.58	2.48	4.64	1.03	1.87
elongation factor 1-gamma pseudogene	LOC103161331	103161331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161334	LOC103161334	103161334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103161335	LOC103161335	103161335	0.07	0.05	0.02	0.02	0.08	0.04	5.32	5.49	1.24	1.16	5.17	3.74
transmembrane protein 126A-like	LOC103161338	103161338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
putative uncharacterized protein DDB_G0290521	LOC103161342	103161342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161344	LOC103161344	103161344	1.73	1.81	1.83	1.86	1.33	0.90	45.57	50.33	45.96	54.47	38.29	29.91

40S ribosomal protein S6 pseudogene	LOC103161345	103161345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161346	LOC103161346	103161346	0.09	0.38	0.60	0.35	0.44	0.34	3.04	10.98	17.39	15.07	18.63	16.82
uncharacterized LOC103161348	LOC103161348	103161348	0.70	0.50	0.49	0.68	0.79	0.25	34.18	21.96	18.63	27.81	24.84	15.89
zinc finger protein 120-like	LOC103161349	103161349	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103161351	LOC103161351	103161351	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.92	0.00	0.00	0.00	0.93
uncharacterized LOC103161352	LOC103161352	103161352	0.72	0.70	0.29	0.41	0.56	0.39	34.18	32.03	16.15	20.86	22.77	18.69
60S ribosomal protein L12 pseudogene	LOC103161353	103161353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161354	LOC103161354	103161354	0.04	0.05	0.06	0.00	0.00	0.05	3.04	0.92	1.24	2.32	0.00	0.93
dnaJ homolog subfamily B member 6-like	LOC103161356	103161356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aryl hydrocarbon receptor repressor-like	LOC103161357	103161357	5.27	5.63	5.13	3.93	2.33	2.45	103.30	102.48	96.88	78.81	47.61	50.47
protein Hikeshi pseudogene	LOC103161360	103161360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161361	LOC103161361	103161361	0.20	0.12	0.17	0.16	0.00	0.00	3.04	6.41	1.24	3.48	1.03	1.87
60S ribosomal protein L37 pseudogene	LOC103161365	103161365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired immunoglobulin-like type 2 receptor alpha	LOC103161367	103161367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161368	LOC103161368	103161368	0.03	0.00	0.05	0.09	0.04	0.04	0.76	0.00	1.24	2.32	1.03	0.93
uncharacterized LOC103161370	LOC103161370	103161370	0.06	0.07	0.00	0.00	0.00	0.12	6.08	1.83	0.00	3.48	1.03	2.80
uncharacterized LOC103161371	LOC103161371	103161371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S23 pseudogene	LOC103161372	103161372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103161373	LOC103161373	103161373	0.17	0.30	0.39	0.24	0.46	0.39	7.60	15.56	21.12	15.07	16.56	18.69
uncharacterized LOC103161374	LOC103161374	103161374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
uncharacterized LOC103161380	LOC103161380	103161380	6.99	6.67	3.17	3.17	3.42	3.49	423.82	416.34	255.87	231.78	275.31	294.42
uncharacterized LOC103161381	LOC103161381	103161381	0.42	0.33	0.30	0.47	0.53	0.69	53.17	42.09	45.96	62.58	81.76	93.47
kelch repeat and BTB domain-containing protein 8-like	LOC103161382	103161382	0.01	0.02	0.00	0.06	0.00	0.03	0.76	0.92	0.00	4.64	1.03	1.87
uncharacterized LOC103161384	LOC103161384	103161384	0.23	0.28	0.15	0.18	0.25	0.28	7.60	10.07	4.97	5.79	8.28	9.35
uncharacterized LOC103161390	LOC103161390	103161390	1.35	0.62	0.29	0.85	0.24	0.22	17.47	19.22	6.21	10.43	7.24	14.95
uncharacterized LOC103161391	LOC103161391	103161391	0.60	0.37	1.01	0.97	0.71	1.29	6.84	2.75	13.66	15.07	7.24	11.22
uncharacterized LOC103161392	LOC103161392	103161392	4.27	1.85	4.38	4.31	3.69	5.41	27.34	14.64	33.54	42.88	32.08	35.52
uncharacterized LOC103161393	LOC103161393	103161393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161394	LOC103161394	103161394	0.06	0.18	0.17	0.10	0.32	0.34	3.04	8.24	6.21	3.48	13.45	14.95
uncharacterized LOC103161396	LOC103161396	103161396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-S2-casein-like A	LOC103161397	103161397	0.07	0.00	0.00	0.00	0.00	0.04	2.28	0.92	0.00	0.00	0.00	0.93
uncharacterized LOC103161398	LOC103161398	103161398	9.84	9.13	4.18	5.29	5.26	5.39	1630.73	1497.91	703.02	892.37	865.25	921.58
uncharacterized LOC103161399	LOC103161399	103161399	0.66	1.00	0.38	0.41	0.60	0.62	22.79	34.77	14.91	13.91	20.70	28.97
heme oxygenase 1 pseudogene	LOC103161400	103161400	0.12	0.14	0.38	0.09	0.08	0.07	1.52	1.83	4.97	1.16	1.03	0.93
HERV-K_22q11.21 provirus ancestral Pol protein-like	LOC103161401	103161401	0.02	0.06	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
submaxillary gland androgen-regulated protein 3B-like	LOC103161402	103161402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ADP/ATP translocase 2 pseudogene	LOC103161404	103161404	6.21	5.55	6.33	5.36	3.82	3.31	145.83	140.00	151.53	111.26	80.73	82.25
lymphocyte antigen 6K-like	LOC103161407	103161407	0.41	0.25	0.00	0.33	0.15	0.13	1.52	1.83	1.24	2.32	0.00	0.93
uncharacterized LOC103161412	LOC103161412	103161412	0.12	0.17	0.06	0.25	0.27	0.22	9.87	11.90	8.69	16.22	23.80	17.76
uncharacterized LOC103161416	LOC103161416	103161416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161422	LOC103161422	103161422	0.19	0.16	0.00	0.00	0.00	0.00	2.28	4.58	0.00	0.00	0.00	0.00
uncharacterized LOC103161423	LOC103161423	103161423	0.22	0.68	0.75	0.55	0.00	0.29	3.04	12.81	7.45	8.11	3.10	2.80
uncharacterized LOC103161424	LOC103161424	103161424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C4orf3 homolog	LOC103161426	103161426	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	2.07	0.93
2-acylglycerol O-acyltransferase 2-B-like	LOC103161428	103161428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103161433	LOC103161433	103161433	1.60	1.09	0.83	1.57	0.35	0.53	18.99	17.39	9.94	20.86	8.28	11.22
uncharacterized LOC103161435	LOC103161435	103161435	0.69	0.42	0.00	0.00	0.51	0.48	3.80	4.58	2.48	3.48	4.14	4.67
partitioning defective 6 homolog beta pseudogene	LOC103161438	103161438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161442	LOC103161442	103161442	0.01	0.00	0.01	0.02	0.01	0.00	2.28	4.58	3.73	2.32	2.07	1.87
60S ribosomal protein L39 pseudogene	LOC103161445	103161445	0.30	0.00	0.17	0.00	0.14	0.64	2.28	1.83	1.24	1.16	1.03	6.54
uncharacterized LOC103161450	LOC103161450	103161450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161452	LOC103161452	103161452	0.06	0.30	0.05	0.10	0.25	0.28	4.56	10.98	2.48	6.95	12.42	8.41
uncharacterized LOC103161455	LOC103161455	103161455	2.47	2.46	2.88	2.57	3.80	3.67	60.00	69.54	80.74	73.01	89.01	78.51
somatomedin-B and thrombospondin type-1 domain-containing protein-like	LOC103161466	103161466	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transcription factor BTF3 pseudogene	LOC103161470	103161470	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
40S ribosomal protein S27-like	LOC103161471	103161471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161473	LOC103161473	103161473	11.86	14.70	2.37	2.32	0.05	0.20	264.32	313.86	77.01	75.33	5.17	6.54
uncharacterized LOC103161475	LOC103161475	103161475	0.00	0.22	0.00	0.00	0.25	0.71	1.52	0.92	0.00	1.16	4.14	8.41
disks large homolog 5-like	LOC103161480	103161480	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
plasminogen activator inhibitor 1 RNA-binding protein pseudogene	LOC103161485	103161485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region VH558 A1/A4-like	LOC103161497	103161497	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103161498	LOC103161498	103161498	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161500	LOC103161500	103161500	9.83	8.80	22.75	24.67	28.84	25.59	341.79	350.46	811.08	895.85	993.59	920.65
uncharacterized LOC103161501	LOC103161501	103161501	0.21	0.38	0.00	0.00	0.15	0.14	4.56	6.41	2.48	1.16	4.14	3.74
uncharacterized LOC103161502	LOC103161502	103161502	1.04	0.95	1.25	1.21	1.32	1.61	44.81	45.75	45.96	50.99	56.92	64.49
pre-mRNA-splicing factor ISY1 homolog	LOC103161503	103161503	65.95	67.92	72.00	73.79	70.80	69.53	2981.95	3088.24	3297.74	3282.06	3158.78	3100.30
uncharacterized LOC103161508	LOC103161508	103161508	9.54	7.85	8.97	8.89	7.60	6.76	433.70	360.52	403.68	402.15	339.48	298.16
spliceosome RNA helicase DDX39B-like	LOC103161509	103161509	76.97	65.55	78.62	68.86	46.07	57.12	904.61	822.62	1071.92	910.91	589.94	666.42
60S ribosomal protein L18a pseudogene	LOC103161510	103161510	7.00	7.31	6.65	3.91	4.11	3.72	85.07	79.61	79.49	55.63	54.85	42.99
LETM1 domain-containing protein LETM2, mitochondrial-like	LOC103161511	103161511	2.60	3.23	2.78	3.06	4.31	3.30	145.83	180.26	157.75	166.88	234.94	176.65
uncharacterized LOC103161512	LOC103161512	103161512	76.07	72.82	77.43	75.34	50.54	51.21	1557.81	1392.68	1481.81	1343.19	965.64	1075.80
H-2 class I histocompatibility antigen, alpha chain-like	LOC103161513	103161513	6.45	6.28	6.19	4.62	4.49	4.21	106.34	113.46	109.30	75.33	73.48	69.17

protein DEK-like	LOC103161514	103161514	0.18	0.09	0.15	0.05	0.12	0.04	5.32	1.83	4.97	1.16	5.17	2.80
HLA class II histocompatibility antigen, DO beta chain	LOC103161518	103161518	0.01	0.03	0.00	0.02	0.00	0.07	0.76	1.83	0.00	2.32	1.03	4.67
Ig heavy chain V region 102-like	LOC103161520	103161520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC103161522	103161522	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
isocitrate dehydrogenase [NADP] cytoplasmic pseudogene	LOC103161523	103161523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161524	LOC103161524	103161524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161525	LOC103161525	103161525	2.86	3.02	1.38	0.98	0.58	0.59	60.00	63.14	36.02	28.97	14.49	11.22
40S ribosomal protein S3a pseudogene	LOC103161526	103161526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161528	LOC103161528	103161528	0.45	0.53	0.37	0.28	0.42	0.38	21.27	15.56	17.39	15.07	17.59	16.82
testis expressed	LOC103161530	103161530	0.00	0.04	0.00	0.05	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
uncharacterized LOC103161531	LOC103161531	103161531	0.20	0.41	0.33	0.06	0.11	0.25	15.19	12.81	8.69	3.48	3.10	8.41
uncharacterized LOC103161533	LOC103161533	103161533	0.10	0.08	0.00	0.02	0.02	0.00	6.84	5.49	0.00	1.16	1.03	0.00
60S ribosomal protein L18 pseudogene	LOC103161535	103161535	0.05	0.30	0.30	0.13	0.17	0.16	0.00	2.75	2.48	1.16	1.03	0.93
uncharacterized LOC103161536	LOC103161536	103161536	0.15	0.04	0.09	0.03	0.13	0.02	6.84	6.41	6.21	1.16	9.31	0.93
uncharacterized LOC103161537	LOC103161537	103161537	1.06	0.87	0.13	0.08	0.50	0.58	106.34	100.65	12.42	13.91	44.50	62.62
uncharacterized LOC103161538	LOC103161538	103161538	0.30	0.28	0.14	0.20	0.64	0.42	19.75	17.39	9.94	22.02	43.47	28.04
uncharacterized LOC103161543	LOC103161543	103161543	0.08	0.29	0.13	0.13	0.00	0.10	1.52	3.66	1.24	2.32	0.00	1.87
uncharacterized LOC103161546	LOC103161546	103161546	16.35	13.17	11.49	16.24	15.57	14.73	296.98	281.83	213.64	325.66	291.87	291.62

uncharacterized LOC103161548	LOC103161548	103161548	53.70	54.17	52.31	57.42	68.80	68.26	5833.26	5885.50	5719.81	6228.04	7397.05	7435.30
low molecular weight phosphotyrosine protein phosphatase pseudogene	LOC103161550	103161550	0.30	0.36	0.00	0.32	0.05	0.30	1.52	0.92	0.00	1.16	0.00	2.80
uncharacterized LOC103161553	LOC103161553	103161553	0.13	0.08	0.00	0.00	0.09	0.16	2.28	2.75	0.00	0.00	2.07	2.80
uncharacterized LOC103161555	LOC103161555	103161555	8.36	5.78	8.54	9.68	9.10	9.34	140.51	101.57	144.08	161.09	156.28	159.83
uncharacterized LOC103161562	LOC103161562	103161562	2.82	2.97	5.76	4.61	4.50	4.45	24.31	24.71	39.75	33.61	35.19	33.65
resistin-like alpha	LOC103161563	103161563	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.00
V-type proton ATPase subunit d 1 pseudogene	LOC103161565	103161565	0.27	0.28	0.05	0.21	0.05	0.12	8.35	7.32	1.24	4.64	2.07	2.80
40S ribosomal protein S23 pseudogene	LOC103161566	103161566	0.06	0.13	0.28	0.17	0.39	0.35	0.76	1.83	3.73	4.64	6.21	5.61
40S ribosomal protein S26-like	LOC103161567	103161567	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	1.87
uncharacterized LOC103161568	LOC103161568	103161568	0.06	0.05	0.00	0.13	0.03	0.05	3.04	3.66	0.00	5.79	2.07	1.87
uncharacterized LOC103161569	LOC103161569	103161569	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium-dependent neutral amino acid transporter SLC6A17-like	LOC103161570	103161570	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103161572	LOC103161572	103161572	2.42	2.36	2.61	3.03	2.70	3.11	72.92	78.69	80.74	91.55	90.04	100.94
chemokine-like receptor 1	LOC103161573	103161573	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 175-like	LOC103161575	103161575	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C19orf84	LOC103161576	103161576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial Rho GTPase 2 pseudogene	LOC103161578	103161578	0.00	0.16	0.00	0.00	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.93
uncharacterized LOC103161581	LOC103161581	103161581	0.00	0.00	0.00	0.00	0.00	0.00	4.56	11.90	2.48	9.27	6.21	6.54

uncharacterized LOC103161583	LOC103161583	103161583	0.42	0.30	0.23	0.36	0.54	0.34	63.80	45.75	29.81	46.36	62.10	60.75
uncharacterized LOC103161586	LOC103161586	103161586	0.05	0.23	0.00	0.00	0.00	0.00	1.52	3.66	0.00	0.00	1.03	0.00
SPARC-like	LOC103161587	103161587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin-specific chaperone A-like	LOC103161588	103161588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161594	LOC103161594	103161594	0.18	0.23	0.06	0.08	0.04	0.07	24.31	29.28	9.94	11.59	6.21	10.28
uncharacterized LOC103161595	LOC103161595	103161595	3.45	2.50	0.00	0.00	0.00	0.00	2.28	5.49	0.00	0.00	1.03	0.93
aldose reductase-related protein 2 pseudogene	LOC103161596	103161596	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.93
mucin-19-like	LOC103161600	103161600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
histone H3.3C-like	LOC103161603	103161603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161607	LOC103161607	103161607	0.20	0.24	0.16	0.08	0.14	0.18	4.56	4.58	1.24	2.32	1.03	0.93
uncharacterized LOC103161614	LOC103161614	103161614	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized protein KIAA1671-like	LOC103161617	103161617	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161620	LOC103161620	103161620	0.60	0.54	0.20	0.33	0.24	0.35	56.97	51.24	22.36	34.77	23.80	30.84
uncharacterized LOC103161621	LOC103161621	103161621	2.68	3.33	2.12	2.31	2.02	2.95	74.43	91.50	57.14	71.85	78.66	96.27
uncharacterized LOC103161622	LOC103161622	103161622	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	4.97	1.16	1.03	2.80
uncharacterized LOC103161623	LOC103161623	103161623	0.24	0.45	0.82	0.56	0.68	0.70	17.47	21.05	37.26	35.93	40.36	42.99
protein tyrosine phosphatase type IVA 1 pseudogene	LOC103161626	103161626	8.33	9.32	7.03	6.83	8.77	9.12	903.85	958.04	732.83	724.32	924.24	982.34
uncharacterized LOC103161627	LOC103161627	103161627	0.27	0.25	0.39	0.46	0.41	0.33	6.84	7.32	16.15	17.38	8.28	11.22

uncharacterized LOC103161628	LOC103161628	103161628	0.11	0.10	0.00	0.04	0.11	0.20	7.60	4.58	0.00	1.16	5.17	6.54
uncharacterized LOC103161629	LOC103161629	103161629	0.19	0.00	0.00	0.16	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103161632	LOC103161632	103161632	0.16	0.10	0.26	0.12	0.11	0.13	9.11	8.24	11.18	9.27	6.21	7.48
uncharacterized LOC103161635	LOC103161635	103161635	0.16	0.12	0.13	0.17	0.16	0.19	23.55	22.88	26.08	28.97	33.12	32.71
uncharacterized LOC103161638	LOC103161638	103161638	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161639	LOC103161639	103161639	0.07	0.00	0.00	0.00	0.00	0.00	3.80	0.92	0.00	3.48	1.03	0.00
NKG2D ligand 1-like	LOC103161640	103161640	2.08	1.91	0.00	0.00	0.04	0.00	142.03	153.73	0.00	0.00	2.07	4.67
succinate dehydrogenase assembly factor 1, mitochondrial-like	LOC103161641	103161641	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161648	LOC103161648	103161648	8.48	10.32	7.04	5.94	3.73	4.86	303.06	364.18	227.30	193.54	117.99	169.18
uncharacterized LOC103161649	LOC103161649	103161649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-defensin 4-like	LOC103161654	103161654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-defensin 2-like	LOC103161656	103161656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161658	LOC103161658	103161658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gag polyprotein	LOC103161659	103161659	7.30	7.40	9.05	10.78	13.17	11.41	667.63	654.25	804.87	973.49	1219.21	1036.55
uncharacterized LOC103161660	LOC103161660	103161660	0.22	0.27	0.00	0.00	0.15	0.00	4.56	4.58	2.48	0.00	3.10	3.74
RNA polymerase II elongation factor ELL2 pseudogene	LOC103161661	103161661	0.20	0.16	0.02	0.06	0.07	0.06	11.39	10.98	1.24	5.79	4.14	3.74
selenoprotein W-like	LOC103161662	103161662	7.05	8.08	5.95	7.21	5.40	4.37	15.19	18.30	6.21	13.91	11.38	4.67
protein transport protein Sec61 subunit gamma pseudogene	LOC103161663	103161663	0.44	0.32	0.00	0.14	0.37	0.67	5.32	2.75	0.00	1.16	3.10	5.61

uncharacterized LOC103161664	LOC103161664	103161664	1.77	1.48	0.50	0.47	0.81	0.85	86.59	67.71	22.36	27.81	32.08	42.06
uncharacterized LOC103161665	LOC103161665	103161665	0.00	0.00	0.23	0.66	0.19	0.18	1.52	0.92	2.48	6.95	2.07	5.61
40S ribosomal protein S2 pseudogene	LOC103161666	103161666	0.03	0.01	0.03	0.05	0.06	0.11	6.08	1.83	4.97	10.43	15.52	23.37
uncharacterized LOC103161669	LOC103161669	103161669	5.43	4.65	4.37	4.23	3.54	3.65	103.30	67.71	69.56	73.01	56.92	57.95
60S ribosomal protein L5-like	LOC103161670	103161670	0.00	0.06	0.00	0.07	0.00	0.00	0.00	1.83	1.24	1.16	0.00	0.00
ATP synthase F(0) complex subunit C2, mitochondrial pseudogene	LOC103161672	103161672	1.75	1.76	1.75	1.22	0.50	0.80	24.31	23.79	23.60	13.91	5.17	9.35
uncharacterized LOC103161673	LOC103161673	103161673	1.55	1.71	1.56	1.18	0.90	0.72	94.94	118.95	96.88	86.92	71.41	67.30
uncharacterized LOC103161676	LOC103161676	103161676	0.00	0.10	0.13	0.00	0.00	0.00	1.52	2.75	0.00	0.00	1.03	0.00
uncharacterized LOC103161677	LOC103161677	103161677	7.41	7.33	6.12	6.48	6.90	7.08	139.76	138.17	125.45	117.05	125.23	129.92
uncharacterized LOC103161678	LOC103161678	103161678	0.21	0.00	0.69	0.33	0.00	0.00	4.56	0.92	13.66	4.64	0.00	0.00
uncharacterized LOC103161680	LOC103161680	103161680	1.08	1.27	1.76	1.61	1.95	1.96	41.02	49.41	45.96	44.04	54.85	51.41
uncharacterized LOC103161681	LOC103161681	103161681	0.64	0.77	0.51	0.58	0.81	0.62	34.94	51.24	32.29	38.24	43.47	36.45
uncharacterized LOC103161682	LOC103161682	103161682	1.49	0.72	0.81	0.57	1.02	0.85	8.35	6.41	7.45	10.43	12.42	8.41
uncharacterized LOC103161683	LOC103161683	103161683	1.03	0.59	0.97	0.76	0.75	0.61	41.77	32.03	54.65	40.56	51.75	47.67
uncharacterized LOC103161687	LOC103161687	103161687	0.51	0.42	0.48	0.45	0.61	0.50	34.18	32.94	28.57	33.61	33.12	34.58
zinc finger protein 121-like	LOC103161690	103161690	0.36	0.30	0.23	0.23	0.50	0.51	36.46	31.11	23.60	25.50	52.78	55.15
uncharacterized LOC103161691	LOC103161691	103161691	0.98	1.81	1.83	2.22	1.45	2.30	12.15	25.62	24.84	26.66	19.66	28.97
uncharacterized LOC103161692	LOC103161692	103161692	0.75	0.42	0.82	0.63	0.56	0.56	24.31	16.47	24.84	24.34	20.70	17.76

olfactory receptor 7D4-like	LOC103161694	103161694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161698	LOC103161698	103161698	18.11	11.91	10.29	13.16	20.10	27.89	61.52	66.80	48.44	56.79	79.69	89.73
glycogen [starch] synthase, liver-like	LOC103161699	103161699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161705	LOC103161705	103161705	0.41	0.26	0.15	0.24	0.17	0.04	12.91	9.15	3.73	6.95	4.14	4.67
uncharacterized LOC103161706	LOC103161706	103161706	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103161707	LOC103161707	103161707	0.00	0.00	0.00	0.00	0.23	0.00	0.76	0.00	1.24	1.16	0.00	0.93
uncharacterized LOC103161709	LOC103161709	103161709	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161710	LOC103161710	103161710	168.48	180.56	195.82	205.88	179.19	176.35	3863.02	4220.13	4505.05	4603.23	3865.67	3961.13
mortality factor 4-like protein 1 pseudogene	LOC103161713	103161713	0.05	0.00	0.92	0.64	0.99	0.83	2.28	0.00	22.36	13.91	21.73	18.69
mitochondrial pyruvate carrier 2-like	LOC103161721	103161721	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	1.03	0.00
Ig heavy chain V region 441-like	LOC103161727	103161727	0.03	0.00	0.00	0.00	0.01	0.00	3.80	0.92	0.00	0.00	0.00	0.93
60S ribosomal protein L9 pseudogene	LOC103161732	103161732	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161733	LOC103161733	103161733	2.19	1.81	1.30	1.12	1.75	1.03	62.28	57.65	39.75	34.77	52.78	32.71
uncharacterized LOC103161734	LOC103161734	103161734	0.24	0.18	0.15	0.16	0.15	0.18	26.58	20.13	17.39	16.22	18.63	18.69
uncharacterized LOC103161735	LOC103161735	103161735	21.50	22.40	16.94	16.98	19.43	17.98	517.25	513.33	426.04	413.73	420.20	415.93
WASH complex subunit CCDC53 pseudogene	LOC103161736	103161736	0.82	0.99	0.91	0.62	1.04	0.89	6.08	6.41	4.97	4.64	8.28	9.35
uncharacterized LOC103161740	LOC103161740	103161740	0.00	0.24	0.00	0.00	0.00	0.26	0.00	2.75	0.00	1.16	0.00	0.93
T-cell receptor alpha chain C region-like	LOC103161741	103161741	0.54	1.30	0.54	0.70	0.30	0.00						

60S ribosomal protein L6 pseudogene	LOC103161743	103161743	3.88	3.84	2.94	2.25	3.09	1.74	63.80	60.39	47.20	37.09	50.71	27.11
allograft inflammatory factor 1-like	LOC103161744	103161744	0.08	0.22	0.12	0.19	0.23	0.13	6.08	18.30	8.69	13.91	16.56	10.28
uncharacterized LOC103161745	LOC103161745	103161745	0.23	0.51	0.23	0.22	0.39	0.53	8.35	12.81	13.66	3.48	17.59	14.02
uncharacterized LOC103161746	LOC103161746	103161746	0.00	0.00	0.00	0.00	0.00	0.00	3.80	2.75	1.24	2.32	1.03	0.93
40S ribosomal protein S2 pseudogene	LOC103161747	103161747	4.49	4.64	4.40	2.49	3.76	3.36	60.00	69.54	52.17	31.29	47.61	40.19
uncharacterized LOC103161748	LOC103161748	103161748	0.71	1.13	0.45	0.26	0.08	0.07	10.63	16.47	4.97	4.64	1.03	0.93
heterogeneous nuclear ribonucleoprotein A1-like	LOC103161749	103161749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase-like	LOC103161752	103161752	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region CTL-L17-like	LOC103161757	103161757	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region 2B4-like	LOC103161758	103161758	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103161760	LOC103161760	103161760	12.39	11.39	6.27	9.10	8.38	10.06	90.39	91.50	69.56	70.69	76.59	84.12
chromosome unknown open reading frame, human C14orf169	LOC103161768	103161768	1.42	1.48	1.00	1.20	0.97	1.05	49.37	47.58	34.78	41.72	32.08	36.45
HERV-F(c)1_Xq21.33 provirus ancestral Gag polyprotein-like	LOC103161770	103161770	0.02	0.01	0.03	0.00	0.01	0.02	3.04	1.83	4.97	3.48	6.21	10.28
uncharacterized LOC103161771	LOC103161771	103161771	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103161772	LOC103161772	103161772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103161773	LOC103161773	103161773	1.52	1.09	0.76	0.45	0.84	0.93	43.29	34.77	21.12	16.22	30.01	30.84
uncharacterized LOC103161775	LOC103161775	103161775	10.06	9.47	12.56	12.45	13.27	13.57	660.04	632.29	835.92	806.61	847.65	895.41
olfactory receptor 2A1/2A42-like	LOC103161777	103161777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103161784	LOC103161784	103161784	330.85	286.22	332.13	303.57	291.22	309.62	5348.68	4622.75	5386.93	4830.38	4773.36	5033.20
60S ribosomal protein L21 pseudogene	LOC103161787	103161787	0.08	0.39	0.14	0.00	0.23	0.00	0.76	4.58	1.24	1.16	3.10	1.87
ubiquitin-like protein 5	LOC103161789	103161789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
proto-oncogene FRAT1-like	LOC103161791	103161791	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 124-like	LOC103161792	103161792	2.10	2.52	5.67	10.83	1.62	4.99	28.86	30.20	42.23	49.83	46.57	28.04
uncharacterized LOC103161793	LOC103161793	103161793	0.40	1.12	0.54	0.21	0.28	0.17	15.95	36.60	12.42	15.07	9.31	12.15
Ig kappa chain V-I region HK102-like	LOC103161798	103161798	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103161803	LOC103161803	103161803	0.53	0.70	0.50	0.41	0.45	0.70	24.31	32.03	18.63	13.91	24.84	25.24
uncharacterized LOC103161804	LOC103161804	103161804	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
sorting nexin-3-like	LOC103161805	103161805	2.14	2.10	0.98	1.00	1.49	1.92	12.15	11.90	4.97	4.64	7.24	11.22
uncharacterized LOC103161807	LOC103161807	103161807	1.13	1.94	1.26	1.52	1.59	2.05	18.99	23.79	18.63	19.70	18.63	26.17
zinc finger protein neuro-d4-like	LOC103161811	103161811	0.79	0.70	1.43	1.16	0.74	1.03	24.31	28.37	39.75	30.13	19.66	27.11
uncharacterized LOC103161818	LOC103161818	103161818	0.74	0.30	0.41	0.40	0.46	0.42	15.95	18.30	14.91	16.22	10.35	15.89
40S ribosomal protein S24 pseudogene	LOC103161819	103161819	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAMPATH-1 antigen-like	LOC103161822	103161822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161823	LOC103161823	103161823	0.89	1.71	0.74	1.42	1.99	0.79	11.39	18.30	9.94	15.07	18.63	10.28
uncharacterized LOC103161824	LOC103161824	103161824	0.06	0.02	0.00	0.05	0.15	0.00	6.08	4.58	3.73	6.95	8.28	3.74
uncharacterized LOC103161825	LOC103161825	103161825	0.11	0.41	0.37	0.36	0.63	0.58	1.52	4.58	6.21	5.79	10.35	10.28

uncharacterized LOC103161826	LOC103161826	103161826	0.06	0.08	0.00	0.20	0.27	0.08	4.56	3.66	2.48	5.79	7.24	5.61
60S ribosomal protein L9 pseudogene	LOC103161829	103161829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L15-like	LOC103161830	103161830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161831	LOC103161831	103161831	1.72	1.59	1.80	2.15	2.30	2.52	184.57	187.58	196.25	245.69	254.61	265.45
uncharacterized LOC103161832	LOC103161832	103161832	0.14	0.66	0.23	0.45	0.57	0.35	5.32	1.83	2.48	2.32	7.24	3.74
uncharacterized LOC103161835	LOC103161835	103161835	0.28	0.07	0.00	0.26	0.00	0.00	6.84	2.75	1.24	4.64	1.03	0.93
Ig kappa chain V-IV region-like	LOC103161837	103161837	0.00	0.00	0.00	0.00	0.00	0.00						
Ig kappa chain V-IV region-like	LOC103161838	103161838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M-phase phosphoprotein 6-like	LOC103161841	103161841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161842	LOC103161842	103161842	0.18	0.19	0.27	0.37	0.40	0.32	12.91	14.64	21.12	34.77	43.47	31.78
uncharacterized LOC103161844	LOC103161844	103161844	0.76	1.12	0.63	0.55	0.60	0.59	39.50	53.07	34.78	28.97	30.01	28.04
uncharacterized LOC103161845	LOC103161845	103161845	0.00	0.00	0.00	0.00	0.00	0.10	2.28	0.00	0.00	2.32	2.07	0.93
spermatogenesis-associated protein 31D1-like	LOC103161847	103161847	0.03	0.02	0.00	0.00	0.04	0.06	1.52	1.83	0.00	0.00	3.10	2.80
ubiquitin-conjugating enzyme E2 L3 pseudogene	LOC103161849	103161849	0.41	0.56	0.38	0.09	0.24	0.07	6.84	10.07	4.97	1.16	3.10	0.93
uncharacterized LOC103161850	LOC103161850	103161850	0.41	0.35	0.51	0.71	1.15	0.60	10.63	15.56	17.39	26.66	42.43	22.43
uncharacterized LOC103161851	LOC103161851	103161851	0.08	0.21	0.28	0.00	0.36	0.00	1.52	6.41	4.97	1.16	4.14	0.93
protein FRG1 pseudogene	LOC103161853	103161853	0.20	0.12	0.20	0.07	0.23	0.10	10.63	7.32	12.42	4.64	11.38	5.61
uncharacterized LOC103161854	LOC103161854	103161854	5.56	5.52	3.17	2.99	2.12	2.58	240.77	236.08	141.60	134.43	106.60	114.96

uncharacterized LOC103161859	LOC103161859	103161859	0.11	0.00	0.07	0.03	0.12	0.22	3.04	0.92	3.73	1.16	4.14	7.48
protein SET-like	LOC103161861	103161861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161862	LOC103161862	103161862	1.20	0.81	1.21	1.05	1.07	1.38	78.23	55.82	72.04	68.38	73.48	86.92
uncharacterized LOC103161866	LOC103161866	103161866	0.47	0.00	0.40	0.00	1.01	0.00	3.80	0.00	1.24	5.79	3.10	5.61
uncharacterized LOC103161869	LOC103161869	103161869	1.14	1.00	1.51	1.68	1.01	1.49	60.00	68.63	69.56	76.49	57.96	82.25
uncharacterized LOC103161870	LOC103161870	103161870	2.97	2.89	6.84	6.70	8.64	6.91	38.74	34.77	79.49	70.69	100.39	85.05
survival motor neuron protein pseudogene	LOC103161871	103161871	0.56	0.42	0.40	0.37	0.25	0.24	17.47	16.47	11.18	11.59	8.28	7.48
uncharacterized LOC103161872	LOC103161872	103161872	9.72	8.51	12.24	13.02	14.21	13.13	260.52	215.03	304.31	318.70	358.11	350.50
uncharacterized LOC103161873	LOC103161873	103161873	1.85	1.91	1.29	1.46	1.01	1.58	29.62	28.37	18.63	20.86	17.59	19.63
uncharacterized LOC103161874	LOC103161874	103161874	0.08	0.39	0.07	0.19	0.22	0.30	6.84	9.15	1.24	6.95	5.17	10.28
uncharacterized LOC103161875	LOC103161875	103161875	0.20	0.00	0.00	0.16	0.14	0.00	4.56	6.41	2.48	2.32	1.03	0.93
protein FAM136A pseudogene	LOC103161876	103161876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase X-like	LOC103161877	103161877	1.12	1.07	0.90	0.82	0.83	0.85	83.55	84.18	60.86	64.90	70.38	82.25
heterogeneous nuclear ribonucleoprotein A3-like	LOC103161878	103161878	7.06	6.68	4.93	4.72	4.65	3.90	233.94	212.29	163.96	163.41	157.32	107.49
uncharacterized LOC103161879	LOC103161879	103161879	0.46	0.28	0.47	0.00	0.24	0.07	9.87	8.24	7.45	4.64	4.14	9.35
uncharacterized LOC103161881	LOC103161881	103161881	1.51	1.28	2.80	3.75	3.00	4.16	19.75	10.98	31.05	33.61	33.12	31.78
uncharacterized LOC103161883	LOC103161883	103161883	1.57	1.19	1.10	0.70	0.62	1.62	36.46	40.26	44.72	18.54	31.05	40.19
high mobility group protein B1 pseudogene	LOC103161884	103161884	0.15	0.07	0.19	0.03	0.33	0.07	2.28	0.92	2.48	0.00	5.17	0.93

Ig heavy chain V-III region VH26-like	LOC103161888	103161888	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103161889	LOC103161889	103161889	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
low affinity immunoglobulin gamma Fc region receptor III-like	LOC103161892	103161892	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
uncharacterized LOC103161894	LOC103161894	103161894	0.76	0.24	0.55	0.22	0.79	0.27	17.47	13.73	9.94	9.27	12.42	10.28
uncharacterized LOC103161901	LOC103161901	103161901	0.14	0.08	0.11	0.16	0.05	0.04	3.80	2.75	2.48	4.64	2.07	0.93
uncharacterized LOC103161904	LOC103161904	103161904	0.43	0.53	0.07	0.13	0.09	0.24	11.39	8.24	1.24	2.32	2.07	3.74
uncharacterized LOC103161905	LOC103161905	103161905	0.07	0.04	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
uncharacterized LOC103161906	LOC103161906	103161906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 kDa heat shock protein, mitochondrial-like	LOC103161908	103161908	0.27	0.45	0.18	0.19	0.26	0.16	12.15	20.13	7.45	8.11	11.38	7.48
uncharacterized LOC103161909	LOC103161909	103161909	0.17	0.00	0.00	0.00	0.00	0.00	2.28	1.83	1.24	2.32	1.03	0.00
uncharacterized LOC103161910	LOC103161910	103161910	0.17	0.00	0.00	0.00	0.49	0.23	0.76	0.92	0.00	0.00	2.07	2.80
prohibitin-2 pseudogene	LOC103161911	103161911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103161912	103161912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28S ribosomal protein S33, mitochondrial pseudogene	LOC103161916	103161916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161918	LOC103161918	103161918	0.25	0.91	0.00	0.00	0.00	0.00	6.08	7.32	6.21	4.64	4.14	2.80
GRB2-associated-binding protein 2 pseudogene	LOC103161919	103161919	0.03	0.02	0.00	0.05	0.00	0.02	1.52	0.92	0.00	2.32	0.00	0.93
uncharacterized LOC103161922	LOC103161922	103161922	0.40	0.55	0.82	0.45	0.77	0.64	16.71	25.62	33.54	18.54	32.08	29.91
60S ribosomal protein L37a-like	LOC103161924	103161924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103161925	LOC103161925	103161925	0.73	0.46	0.23	0.16	0.10	0.13	4.56	2.75	2.48	3.48	5.17	0.93
chymotrypsin-like elastase family member 2A	LOC103161926	103161926	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.24	2.32	0.00	0.93
ras-related protein Rab-2B pseudogene	LOC103161927	103161927	0.18	0.11	0.00	0.00	0.00	0.00	3.04	2.75	0.00	0.00	0.00	0.00
cytochrome c-type heme lyase pseudogene	LOC103161934	103161934	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161935	LOC103161935	103161935	7.35	7.42	7.87	9.07	7.65	8.75	295.46	315.69	351.51	405.62	382.94	409.39
uncharacterized LOC103161936	LOC103161936	103161936	3.41	3.25	3.48	4.58	4.48	3.95	28.10	26.54	29.81	33.61	43.47	28.04
WW domain-binding protein 5-like	LOC103161937	103161937	4.10	5.15	4.89	4.46	5.46	4.58	97.98	126.27	118.00	107.78	123.16	115.90
uncharacterized LOC103161938	LOC103161938	103161938	0.28	0.28	0.20	0.27	0.31	0.18	45.57	43.01	27.33	39.40	46.57	27.11
uncharacterized LOC103161940	LOC103161940	103161940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
uncharacterized LOC103161941	LOC103161941	103161941	2.16	0.66	1.09	0.88	1.07	0.70	18.23	17.39	12.42	12.75	17.59	14.95
putative GTP cyclohydrolase 1 type 2 Nif3l1 pseudogene	LOC103161942	103161942	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161945	LOC103161945	103161945	0.16	0.19	0.00	0.00	0.00	0.00	1.52	2.75	0.00	2.32	0.00	0.00
protein Shroom2-like	LOC103161947	103161947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Shroom2-like	LOC103161949	103161949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Shroom2-like	LOC103161951	103161951	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Shroom2-like	LOC103161952	103161952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-III region Ti-like	LOC103161955	103161955	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-L17-like	LOC103161956	103161956	0.00	0.00	0.00	0.00	0.00	0.00						

T-cell receptor alpha chain V region PHDS58-like	LOC103161958	103161958	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-L17-like	LOC103161959	103161959	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region CTL-F3-like	LOC103161960	103161960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103161962	LOC103161962	103161962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell receptor alpha chain V region RL-5-like	LOC103161963	103161963	0.00	0.00	0.00	0.00	0.00	0.00						
thymosin beta-4 pseudogene	LOC103161967	103161967	1.41	1.57	1.36	0.53	1.52	1.12	52.41	47.58	69.56	48.67	52.78	60.75
40S ribosomal protein S2 pseudogene	LOC103161968	103161968	0.25	0.15	0.14	0.06	0.00	0.21	4.56	2.75	1.24	0.00	0.00	3.74
uncharacterized LOC103161976	LOC103161976	103161976	0.38	0.34	0.43	0.33	0.59	0.53	22.79	24.71	37.26	25.50	36.22	41.13
uncharacterized LOC103161977	LOC103161977	103161977	0.36	0.31	1.11	1.23	1.08	1.17	11.39	8.24	44.72	40.56	45.54	42.06
uncharacterized LOC103161978	LOC103161978	103161978	0.25	0.19	0.30	0.28	0.51	0.19	15.19	10.98	19.87	22.02	28.98	28.97
uncharacterized LOC103161985	LOC103161985	103161985	0.35	0.47	0.32	0.37	0.16	0.34	12.91	15.56	6.21	11.59	9.31	10.28
40S ribosomal protein S15a pseudogene	LOC103161986	103161986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
carcinoembryonic antigen-related cell adhesion molecule 2-like	LOC103161993	103161993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 102-like	LOC103161996	103161996	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 441-like	LOC103161998	103161998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC103161999	103161999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162001	LOC103162001	103162001	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	3.10	0.00
protein SCO2 homolog, mitochondrial	LOC103162003	103162003	14.20	12.93	10.92	10.81	8.18	9.27	128.36	119.87	108.06	104.30	92.11	113.10

tRNA pseudouridine(38/39) synthase-like	LOC103162005	103162005	1.83	1.73	1.71	1.64	1.61	1.27	2.28	1.83	1.24	1.16	3.10	0.93
uncharacterized LOC103162006	LOC103162006	103162006	0.25	0.60	0.24	0.62	0.55	0.56	4.56	9.15	6.21	11.59	12.42	10.28
uncharacterized LOC103162011	LOC103162011	103162011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162012	LOC103162012	103162012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162013	LOC103162013	103162013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
guanine nucleotide exchange factor MSS4 pseudogene	LOC103162015	103162015	0.00	0.15	0.00	0.00	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
uncharacterized LOC103162022	LOC103162022	103162022	0.48	0.37	0.90	1.96	2.28	2.42	22.03	14.64	34.78	53.31	83.83	71.97
uncharacterized LOC103162023	LOC103162023	103162023	0.10	0.00	0.16	0.08	0.07	0.24	4.56	10.07	11.18	10.43	5.17	10.28
uncharacterized LOC103162025	LOC103162025	103162025	0.18	0.22	0.10	0.09	0.00	0.15	5.32	8.24	1.24	1.16	3.10	2.80
uncharacterized LOC103162028	LOC103162028	103162028	7.43	7.60	4.95	5.46	7.25	6.74	588.64	591.11	383.80	432.28	553.72	548.65
uncharacterized LOC103162029	LOC103162029	103162029	0.26	0.39	0.00	0.30	0.36	0.64	4.56	9.15	1.24	4.64	10.35	14.02
uncharacterized LOC103162031	LOC103162031	103162031	0.28	0.53	0.20	0.29	0.43	0.35	20.51	19.22	8.69	11.59	17.59	14.02
uncharacterized LOC103162032	LOC103162032	103162032	0.71	1.37	1.04	1.42	1.50	1.40	31.14	49.41	42.23	52.15	56.92	46.73
putative zinc finger protein 724	LOC103162033	103162033	2.96	1.51	3.17	3.64	3.33	2.26	17.47	11.90	21.12	20.86	19.66	14.95
E3 ubiquitin-protein ligase RNF167-like	LOC103162035	103162035	0.05	0.08	0.07	0.03	0.03	0.03	2.28	4.58	2.48	1.16	1.03	3.74
glyceraldehyde-3-phosphate dehydrogenase-like	LOC103162039	103162039	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162040	LOC103162040	103162040	0.21	0.13	0.07	0.15	0.15	0.34	7.60	7.32	3.73	5.79	8.28	18.69
uncharacterized LOC103162041	LOC103162041	103162041	0.71	0.00	0.00	0.82	0.34	0.96	3.80	3.66	0.00	2.32	2.07	3.74

uncharacterized LOC103162042	LOC103162042	103162042	0.33	0.16	0.11	0.10	0.09	0.08	6.08	3.66	1.24	1.16	3.10	0.93
uncharacterized LOC103162043	LOC103162043	103162043	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	1.16	2.07	0.93
uncharacterized LOC103162044	LOC103162044	103162044	0.92	0.96	0.53	0.70	0.61	0.72	113.17	118.95	75.77	84.60	79.69	92.53
protein YIPF4 pseudogene	LOC103162049	103162049	1.07	1.07	1.71	0.82	1.70	0.65	7.60	9.15	16.15	5.79	15.52	5.61
heat shock cognate 71 kDa protein pseudogene	LOC103162050	103162050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
high mobility group protein B1 pseudogene	LOC103162051	103162051	12.08	12.10	12.13	13.55	12.42	13.48	249.13	251.63	264.56	270.03	267.03	313.11
uncharacterized LOC103162053	LOC103162053	103162053	0.08	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	1.03	0.93
uncharacterized LOC103162054	LOC103162054	103162054	0.25	0.15	0.04	0.02	0.03	0.02	20.51	12.81	2.48	1.16	5.17	4.67
kinetochore protein Spc25 pseudogene	LOC103162056	103162056	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.00
dynactin-associated protein-like	LOC103162063	103162063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162064	LOC103162064	103162064	0.00	0.00	0.00	0.00	0.00	0.00	20.51	21.05	36.02	30.13	31.05	29.91
10 kDa heat shock protein, mitochondrial pseudogene	LOC103162070	103162070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162071	LOC103162071	103162071	35.51	37.07	13.53	15.80	1.67	1.97	1244.88	1280.13	457.09	470.52	56.92	57.95
T-cell receptor gamma chain C region C10.5-like	LOC103162074	103162074	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor gamma chain C region 5/10-13-like	LOC103162075	103162075	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103162076	LOC103162076	103162076	0.13	0.00	0.00	1.05	0.55	0.17	2.28	0.92	0.00	9.27	7.24	0.93
uncharacterized LOC103162077	LOC103162077	103162077	0.41	0.33	0.30	0.14	0.31	0.39	14.43	8.24	6.21	2.32	6.21	8.41
uncharacterized LOC103162078	LOC103162078	103162078	0.25	0.31	0.06	0.14	0.15	0.13	11.39	16.47	2.48	5.79	5.17	7.48

uncharacterized LOC103162079	LOC103162079	103162079	0.12	0.13	0.10	0.09	0.05	0.14	15.95	22.88	12.42	12.75	11.38	23.37
uncharacterized LOC103162081	LOC103162081	103162081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c oxidase subunit 7C, mitochondrial pseudogene	LOC103162085	103162085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-3-3 protein theta pseudogene	LOC103162087	103162087	0.69	0.24	0.24	0.23	0.34	0.31	10.63	3.66	3.73	3.48	5.17	4.67
zinc finger protein 239-like	LOC103162090	103162090	0.16	0.13	0.27	0.18	0.26	0.17	9.87	8.24	16.15	15.07	13.45	12.15
poly(rC)-binding protein 2-like	LOC103162091	103162091	0.99	1.34	0.79	0.56	1.23	0.63	9.87	12.81	11.18	4.64	12.42	5.61
60S ribosomal protein L26-like	LOC103162093	103162093	36.29	33.04	31.60	25.24	32.09	30.54	155.71	89.67	81.98	46.36	89.01	99.07
E3 ubiquitin-protein ligase makorin-1-like	LOC103162094	103162094	27.69	25.86	29.16	30.99	30.14	31.43	1449.20	1378.04	1546.40	1630.60	1578.35	1646.89
uncharacterized LOC103162096	LOC103162096	103162096	1.55	1.41	1.78	2.50	1.36	1.86	20.51	24.71	24.84	30.13	20.70	25.24
uncharacterized LOC103162109	LOC103162109	103162109	0.09	0.08	0.00	0.03	0.00	0.05	3.04	2.75	0.00	1.16	1.03	1.87
uncharacterized LOC103162111	LOC103162111	103162111	0.32	0.39	0.35	0.26	0.15	0.00	9.11	8.24	14.91	10.43	15.52	10.28
E3 ubiquitin-protein ligase Praja-1-like	LOC103162114	103162114	0.11	0.00	0.00	0.00	0.05	0.00	3.04	1.83	1.24	1.16	1.03	0.00
H-2 class I histocompatibility antigen, K-D alpha chain-like	LOC103162117	103162117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162125	LOC103162125	103162125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC103162128	103162128	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial pyruvate carrier-like protein	LOC103162130	103162130	0.44	0.00	0.00	0.00	0.00	0.19	2.28	1.83	0.00	0.00	0.00	0.93
uncharacterized LOC103162131	LOC103162131	103162131	0.04	0.19	0.26	0.12	0.22	0.25	1.52	3.66	9.94	3.48	4.14	4.67
eukaryotic translation initiation factor 2 subunit 2-like	LOC103162133	103162133	1.79	2.24	1.79	1.33	1.50	1.06	32.66	40.26	31.05	24.34	23.80	18.69

junction-mediating and -regulatory protein pseudogene	LOC103162134	103162134	1.00	0.65	0.69	0.65	0.86	0.73	38.74	42.09	33.54	31.29	46.57	35.52
14-3-3 protein zeta/delta pseudogene	LOC103162138	103162138	42.67	42.13	46.69	46.75	42.85	43.65	878.03	852.81	926.60	883.10	792.80	824.38
60S ribosomal protein L7a pseudogene	LOC103162140	103162140	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.87
uncharacterized LOC103162142	LOC103162142	103162142	38.87	40.00	40.41	35.16	40.99	48.94	1533.51	1541.83	1382.44	1287.56	1535.92	1772.13
coiled-coil domain-containing protein 121-like	LOC103162143	103162143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162148	LOC103162148	103162148	1.04	0.60	0.51	0.66	1.02	0.71	42.53	35.69	27.33	34.77	56.92	38.32
uncharacterized LOC103162149	LOC103162149	103162149	0.00	2.92	0.00	0.00	0.00	0.00	6.84	10.98	7.45	3.48	9.31	5.61
uncharacterized LOC103162152	LOC103162152	103162152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162158	LOC103162158	103162158	0.01	0.03	0.00	0.00	0.00	0.00	1.52	2.75	1.24	0.00	0.00	0.00
uncharacterized LOC103162162	LOC103162162	103162162	0.41	0.16	0.23	0.22	0.19	0.00	6.08	4.58	11.18	3.48	3.10	0.00
protein SET-like	LOC103162163	103162163	4.94	5.31	4.20	3.15	3.88	4.83	57.72	57.65	55.89	33.61	45.54	63.56
40S ribosomal protein S15a pseudogene	LOC103162164	103162164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3 domain-containing protein C23A1.17-like	LOC103162165	103162165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162167	LOC103162167	103162167	3.72	3.46	3.10	5.33	4.55	4.83	69.12	64.97	59.62	95.03	77.62	93.47
uncharacterized LOC103162173	LOC103162173	103162173	2.33	2.83	1.81	3.25	2.74	2.27	22.03	19.22	16.15	22.02	19.66	25.24
uncharacterized LOC103162174	LOC103162174	103162174	8.44	8.40	12.38	15.24	16.07	16.42	621.30	631.37	927.84	1110.25	1191.27	1146.84
uncharacterized LOC103162176	LOC103162176	103162176	6.97	7.48	8.77	9.21	11.09	10.55	398.76	388.89	501.80	549.33	677.92	629.03
uncharacterized LOC103162177	LOC103162177	103162177	32.21	31.57	49.68	49.51	54.42	52.84	461.80	453.86	694.33	683.76	762.78	744.00

uncharacterized LOC103162179	LOC103162179	103162179	0.19	0.20	0.14	0.21	0.36	0.29	13.67	12.81	8.69	13.91	19.66	23.37
uncharacterized LOC103162180	LOC103162180	103162180	6.42	5.23	4.49	4.96	4.63	6.06	145.07	134.51	109.30	127.48	130.41	136.46
GTP-binding nuclear protein Ran-like	LOC103162182	103162182	0.00	0.09	0.00	0.00	0.00	0.20	0.76	2.75	0.00	0.00	1.03	1.87
leucine-rich repeat and calponin homology domain-containing protein 1-like	LOC103162183	103162183	0.00	0.00	0.00	0.12	0.10	0.09	0.76	0.00	1.24	2.32	1.03	1.87
uncharacterized LOC103162185	LOC103162185	103162185	7.46	5.36	2.54	3.42	5.09	4.97	89.63	53.07	33.54	32.45	46.57	42.99
uncharacterized LOC103162186	LOC103162186	103162186	0.11	0.10	0.00	0.04	0.19	0.14	5.32	6.41	1.24	1.16	5.17	4.67
uncharacterized LOC103162193	LOC103162193	103162193	1.47	2.03	0.00	0.00	0.00	0.00	69.12	81.44	0.00	0.00	1.03	1.87
uncharacterized LOC103162197	LOC103162197	103162197	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	1.24	2.32	3.10	2.80
uncharacterized LOC103162198	LOC103162198	103162198	0.74	0.76	0.71	0.93	1.22	0.90	34.18	36.60	28.57	44.04	52.78	40.19
taste receptor type 2 member 114-like	LOC103162199	103162199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162203	LOC103162203	103162203	0.09	0.17	0.23	0.15	0.06	0.18	7.60	7.32	8.69	4.64	6.21	10.28
uncharacterized LOC103162204	LOC103162204	103162204	0.00	0.00	0.00	0.74	0.60	0.57	0.76	1.83	0.00	1.16	2.07	1.87
carcinoembryonic antigen-related cell adhesion molecule 8-like	LOC103162205	103162205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 58-like	LOC103162208	103162208	4.86	4.75	5.15	5.80	5.58	5.33	345.59	336.73	370.14	414.89	372.60	387.89
uncharacterized LOC103162212	LOC103162212	103162212	0.72	0.61	0.39	0.53	0.77	0.83	177.73	149.15	98.12	134.43	187.33	210.30
10 kDa heat shock protein, mitochondrial pseudogene	LOC103162213	103162213	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
NTF2-related export protein 1-like	LOC103162214	103162214	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
zinc finger MYM-type protein 3-like	LOC103162217	103162217	0.18	0.28	0.41	0.32	0.79	0.34	0.00	0.92	3.73	2.32	8.28	3.74

uncharacterized LOC103162219	LOC103162219	103162219	0.02	0.08	0.17	0.10	0.19	0.11	1.52	5.49	9.94	5.79	8.28	4.67
uncharacterized LOC103162224	LOC103162224	103162224	0.18	0.07	0.05	0.05	0.00	0.04	11.39	3.66	6.21	2.32	0.00	1.87
uncharacterized LOC103162225	LOC103162225	103162225	0.00	0.20	0.00	0.00	0.00	0.00	1.52	3.66	1.24	2.32	2.07	1.87
uncharacterized LOC103162226	LOC103162226	103162226	0.03	0.19	0.10	0.00	0.04	0.00	1.52	4.58	3.73	1.16	1.03	1.87
uncharacterized LOC103162230	LOC103162230	103162230	0.02	0.03	0.00	0.03	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
60S ribosomal protein L18-like	LOC103162232	103162232	1.36	1.47	1.56	1.23	1.09	1.48	51.65	60.39	59.62	44.04	41.40	57.01
myosin light polypeptide 6-like	LOC103162234	103162234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 14	LOC103162235	103162235	0.64	0.00	1.14	1.24	0.97	1.92	3.80	0.00	1.24	3.48	3.10	2.80
uncharacterized LOC103162237	LOC103162237	103162237	0.74	0.70	0.78	1.17	1.13	1.05	50.13	54.90	60.86	76.49	80.73	82.25
uncharacterized LOC103162238	LOC103162238	103162238	0.25	0.35	0.19	0.10	0.09	0.17	19.75	21.96	9.94	6.95	12.42	13.09
nascent polypeptide-associated complex subunit alpha, muscle-specific form pseudogene	LOC103162246	103162246	0.24	0.30	0.18	0.33	0.25	0.40	66.84	85.10	52.17	93.87	70.38	114.03
uncharacterized LOC103162247	LOC103162247	103162247	0.99	0.46	0.94	0.55	0.68	0.75	30.38	17.39	34.78	19.70	23.80	23.37
uncharacterized LOC103162248	LOC103162248	103162248	0.34	0.27	0.37	0.37	0.39	0.33	22.79	17.39	23.60	23.18	28.98	21.50
Ig heavy chain V region 102-like	LOC103162253	103162253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative V-set and immunoglobulin domain-containing-like protein IGHV4OR15-8	LOC103162254	103162254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 102-like	LOC103162255	103162255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S2-like	LOC103162258	103162258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162259	LOC103162259	103162259	0.95	0.99	0.11	0.10	0.05	0.04	26.58	32.03	3.73	3.48	2.07	1.87

uncharacterized LOC103162260	LOC103162260	103162260	7.54	7.92	8.79	8.07	9.69	9.58	574.97	605.75	670.73	622.34	728.63	715.96
uncharacterized LOC103162264	LOC103162264	103162264	0.05	0.04	0.04	0.04	0.00	0.02	3.04	2.75	3.73	2.32	1.03	0.93
uncharacterized LOC103162265	LOC103162265	103162265	0.19	0.00	0.21	0.10	0.09	0.08	5.32	6.41	9.94	4.64	6.21	5.61
uncharacterized LOC103162266	LOC103162266	103162266	0.02	0.01	0.01	0.02	0.00	0.00	3.04	0.92	8.69	3.48	0.00	0.00
uncharacterized LOC103162269	LOC103162269	103162269	0.02	0.00	0.01	0.04	0.04	0.03	1.52	0.00	1.24	4.64	4.14	2.80
DNA repair protein SWI5 homolog pseudogene	LOC103162270	103162270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162280	LOC103162280	103162280	1.36	1.48	0.89	0.93	1.13	1.25	113.17	121.70	83.22	78.81	83.83	96.27
uncharacterized LOC103162281	LOC103162281	103162281	0.00	0.17	0.00	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	0.00
prolactin-releasing peptide receptor-like	LOC103162285	103162285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
uncharacterized LOC103162288	LOC103162288	103162288	0.12	0.00	0.27	0.50	0.00	0.22	6.84	10.98	4.97	16.22	8.28	12.15
uncharacterized LOC103162289	LOC103162289	103162289	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103162290	LOC103162290	103162290	0.43	0.45	0.28	0.46	0.58	0.51	230.14	274.51	370.14	373.17	437.80	406.58
cell growth-regulating nucleolar protein pseudogene	LOC103162292	103162292	0.21	0.24	0.30	0.27	0.20	0.38	13.67	14.64	19.87	16.22	12.42	25.24
uncharacterized LOC103162297	LOC103162297	103162297	0.16	0.06	0.00	0.07	0.08	0.08	4.56	3.66	1.24	2.32	3.10	3.74
uncharacterized LOC103162298	LOC103162298	103162298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162300	LOC103162300	103162300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162301	LOC103162301	103162301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162302	LOC103162302	103162302	10.51	9.89	0.34	0.32	0.00	0.00	129.12	123.53	3.73	3.48	0.00	0.93

40S ribosomal protein S7 pseudogene	LOC103162303	103162303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1-like	LOC103162304	103162304	0.05	0.00	0.00	0.21	0.13	0.06	1.52	0.00	0.00	4.64	2.07	0.93
uncharacterized LOC103162305	LOC103162305	103162305	2.69	2.27	1.30	2.05	1.44	1.85	130.64	127.19	80.74	107.78	76.59	96.27
uncharacterized LOC103162310	LOC103162310	103162310	4.54	4.60	4.00	4.30	5.52	5.05	337.24	327.58	317.97	336.09	435.73	444.90
mitochondrial pyruvate carrier 1 pseudogene	LOC103162312	103162312	0.33	1.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	1.03	0.00
uncharacterized LOC103162313	LOC103162313	103162313	0.35	0.26	0.00	0.00	0.00	0.00	15.19	8.24	0.00	0.00	0.00	0.00
uncharacterized LOC103162314	LOC103162314	103162314	11.56	12.26	9.42	10.41	10.91	11.07	1212.22	1292.03	1006.09	1104.45	1157.11	1190.77
Ig heavy chain V region VH558 A1/A4-like	LOC103162317	103162317	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103162319	LOC103162319	103162319	0.77	0.23	0.00	0.00	0.55	0.51	6.08	0.92	6.21	0.00	2.07	8.41
uncharacterized LOC103162321	LOC103162321	103162321	0.27	0.38	0.19	0.32	0.64	0.47	21.27	28.37	17.39	27.81	48.64	32.71
uncharacterized LOC103162323	LOC103162323	103162323	0.19	0.17	0.31	0.31	0.51	0.49	15.95	14.64	24.84	28.97	39.33	42.99
zinc finger protein 14-like	LOC103162324	103162324	0.00	0.00	0.06	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 490-like	LOC103162325	103162325	0.02	0.02	0.14	0.13	0.13	0.20	6.08	3.66	11.18	8.11	8.28	10.28
zinc finger protein 879-like	LOC103162328	103162328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162330	LOC103162330	103162330	0.49	0.26	0.67	0.39	0.62	0.67	22.03	12.81	31.05	19.70	28.98	28.97
uncharacterized LOC103162331	LOC103162331	103162331	0.70	0.51	0.76	0.45	0.76	0.42	28.86	24.71	36.02	20.86	33.12	21.50
uncharacterized LOC103162336	LOC103162336	103162336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L39-like	LOC103162337	103162337	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00

40S ribosomal protein S6 pseudogene	LOC103162339	103162339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103162344	LOC103162344	103162344	0.00	0.00	1.20	0.00	0.00	0.00	18.23	17.39	11.18	15.07	12.42	7.48
uncharacterized LOC103162346	LOC103162346	103162346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162356	LOC103162356	103162356	89.48	88.44	157.73	197.85	255.18	248.86	574.97	569.15	936.53	1127.63	1550.41	1457.15
uncharacterized LOC103162357	LOC103162357	103162357	0.25	0.42	0.39	0.94	0.99	0.97	18.99	27.45	26.08	62.58	68.31	64.49
uncharacterized LOC103162358	LOC103162358	103162358	0.17	0.16	0.24	0.41	0.42	0.32	46.33	50.33	70.80	124.00	128.34	98.14
60S ribosomal protein L39 pseudogene	LOC103162363	103162363	1.51	2.44	1.77	0.00	1.50	0.00	0.76	2.75	2.48	0.00	2.07	0.00
cytochrome c, somatic pseudogene	LOC103162365	103162365	0.13	0.08	0.10	0.00	0.00	0.08	2.28	0.92	2.48	1.16	1.03	1.87
la-related protein 4-like	LOC103162367	103162367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162368	LOC103162368	103162368	7.39	8.08	5.38	6.79	6.95	6.56	37.98	42.09	37.26	40.56	43.47	50.47
nucleophosmin pseudogene	LOC103162371	103162371	2.36	2.00	3.00	1.42	1.83	1.91	17.47	17.39	27.33	12.75	13.45	19.63
olfactory receptor 5B2-like	LOC103162376	103162376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162377	LOC103162377	103162377	6.48	6.47	6.78	6.73	8.42	8.83	480.03	519.74	498.08	507.61	634.45	654.27
protein FAM24A-like	LOC103162379	103162379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103162380	LOC103162380	103162380	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.92	1.24	3.48	4.14	0.00
uncharacterized LOC103162381	LOC103162381	103162381	0.02	0.02	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
elongation factor 1-alpha 1 pseudogene	LOC103162382	103162382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162387	LOC103162387	103162387	1.61	1.83	1.58	1.50	1.42	1.16	94.18	103.40	74.53	42.88	51.75	39.26

uncharacterized LOC103162392	LOC103162392	103162392	4.83	4.71	3.68	4.58	5.09	4.71	406.35	398.04	309.28	360.42	389.15	361.72
uncharacterized LOC103162394	LOC103162394	103162394	0.03	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103162397	LOC103162397	103162397	0.44	0.35	0.10	0.18	0.44	0.58	13.67	13.73	3.73	5.79	14.49	17.76
uncharacterized LOC103162398	LOC103162398	103162398	0.02	0.06	0.16	0.11	0.10	0.07	2.28	5.49	13.66	11.59	8.28	7.48
uncharacterized LOC103162406	LOC103162406	103162406	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162408	LOC103162408	103162408	0.08	0.00	0.00	0.13	0.00	0.11	0.76	0.00	0.00	1.16	2.07	2.80
uncharacterized LOC103162409	LOC103162409	103162409	0.97	0.94	0.99	1.26	1.52	1.55	63.04	61.31	67.07	90.40	110.74	107.49
uncharacterized LOC103162410	LOC103162410	103162410	5.41	5.26	8.07	8.95	8.82	8.78	190.64	197.65	320.46	358.11	398.47	368.26
androgen-binding protein homolog	LOC103162415	103162415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 homolog 4 pseudogene	LOC103162422	103162422	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
60S ribosomal protein L37 pseudogene	LOC103162424	103162424	0.61	0.49	0.91	0.71	0.56	0.38	10.63	7.32	13.66	9.27	9.31	7.48
ferritin heavy chain pseudogene	LOC103162429	103162429	0.70	0.24	0.30	0.42	0.12	0.34	10.63	4.58	4.97	6.95	2.07	5.61
chromosome unknown open reading frame, human C14orf132	LOC103162432	103162432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162436	LOC103162436	103162436	0.71	1.15	0.00	0.41	2.05	0.32	9.11	8.24	2.48	3.48	12.42	3.74
uncharacterized LOC103162439	LOC103162439	103162439	1.47	1.49	1.59	1.80	2.41	2.31	35.70	33.86	33.54	38.24	56.92	55.15
60S ribosomal protein L30-like	LOC103162440	103162440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
zinc finger protein 120 pseudogene	LOC103162441	103162441	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
factor VIII intron 22 protein-like	LOC103162443	103162443	63.15	52.53	58.90	53.17	51.07	55.61	1107.41	919.61	1019.75	906.28	879.74	957.10

Ig heavy chain V region 6.96-like	LOC103162450	103162450	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 5A-like	LOC103162452	103162452	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103162455	103162455	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103162461	LOC103162461	103162461	0.41	0.62	0.44	0.37	0.00	0.00	36.46	44.84	36.02	33.61	0.00	0.00
chromosome unknown open reading frame, human C10orf113	LOC103162466	103162466	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UPF0554 protein C2orf43 homolog	LOC103162470	103162470	0.00	0.00	2.53	2.98	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
Ig heavy chain V region 441-like	LOC103162474	103162474	0.00	0.00	0.00	0.22	0.00	0.00						
guanylate kinase pseudogene	LOC103162477	103162477	0.12	0.14	0.10	0.00	0.08	0.22	1.52	1.83	1.24	0.00	1.03	2.80
uncharacterized LOC103162478	LOC103162478	103162478	0.33	0.50	0.53	0.29	0.32	0.29	9.11	8.24	11.18	5.79	6.21	4.67
40S ribosomal protein S6 pseudogene	LOC103162480	103162480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162484	LOC103162484	103162484	0.85	0.56	0.42	0.53	0.47	0.37	17.47	15.56	9.94	10.43	10.35	8.41
disks large homolog 5 pseudogene	LOC103162485	103162485	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ferritin heavy chain-like	LOC103162488	103162488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162489	LOC103162489	103162489	0.08	0.05	0.19	0.06	0.00	0.10	6.08	3.66	7.45	9.27	8.28	11.22
uncharacterized LOC103162490	LOC103162490	103162490	0.13	0.21	0.15	0.14	0.12	0.28	2.28	5.49	2.48	1.16	3.10	5.61
uncharacterized LOC103162492	LOC103162492	103162492	0.16	0.21	0.04	0.10	0.03	0.00	9.11	12.81	2.48	3.48	5.17	0.00
40S ribosomal protein S6 pseudogene	LOC103162493	103162493	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C16orf87	LOC103162500	103162500	19.31	18.44	15.61	16.88	17.70	16.77	698.02	695.43	586.26	628.13	639.62	638.38

rRNA-processing protein FCF1 homolog pseudogene	LOC103162501	103162501	2.12	1.55	1.74	1.43	1.91	1.76	6.84	2.75	7.45	1.16	6.21	3.74
uncharacterized LOC103162502	LOC103162502	103162502	0.26	0.32	0.00	0.00	0.00	0.00	15.95	20.13	0.00	0.00	0.00	0.00
uncharacterized LOC103162503	LOC103162503	103162503	0.45	0.67	0.22	0.35	0.59	0.39	7.60	10.07	2.48	6.95	9.31	7.48
uncharacterized LOC103162509	LOC103162509	103162509	0.20	0.34	0.65	0.74	0.70	0.66	10.63	15.56	29.81	41.72	25.87	30.84
zinc finger protein 42 homolog	LOC103162510	103162510	0.21	0.14	0.68	0.55	0.26	0.56	9.11	6.41	38.50	27.81	16.56	25.24
uncharacterized protein C14orf37 homolog pseudogene	LOC103162515	103162515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162516	LOC103162516	103162516	0.28	0.00	0.00	0.00	0.40	0.05	6.84	2.75	3.73	8.11	2.07	2.80
uncharacterized LOC103162517	LOC103162517	103162517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103162518	LOC103162518	103162518	0.21	0.21	0.00	0.00	0.00	0.01	24.31	26.54	0.00	0.00	0.00	0.93
heat shock cognate 71 kDa protein-like	LOC103162519	103162519	1.09	0.93	0.87	0.74	0.69	0.54	34.94	31.11	33.54	25.50	22.77	19.63
uncharacterized LOC103162521	LOC103162521	103162521	0.09	0.11	0.16	0.00	0.00	0.12	0.76	1.83	1.24	1.16	0.00	0.93
uncharacterized LOC103162522	LOC103162522	103162522	0.30	0.25	0.02	0.15	0.08	0.15	18.23	16.47	4.97	9.27	4.14	10.28
uncharacterized LOC103162523	LOC103162523	103162523	0.00	0.03	0.00	0.07	0.03	0.05	1.52	1.83	1.24	4.64	1.03	1.87
chromosome unknown open reading frame, human C19orf80	LOC103162524	103162524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162532	LOC103162532	103162532	0.29	0.30	0.34	0.32	0.40	0.10	11.39	10.98	9.94	5.79	7.24	6.54
uncharacterized LOC103162536	LOC103162536	103162536	2.22	2.16	1.94	2.43	3.21	3.65	87.35	107.06	100.61	110.10	145.93	174.78
uncharacterized LOC103162537	LOC103162537	103162537	1.14	0.72	0.44	0.65	0.91	0.90	56.97	33.86	23.60	31.29	44.50	42.99
geranylgeranyl transferase type-2 subunit beta pseudogene	LOC103162538	103162538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103162539	LOC103162539	103162539	0.04	0.01	0.02	0.00	0.00	0.00	3.80	1.83	2.48	1.16	0.00	0.00
U1 small nuclear ribonucleoprotein C pseudogene	LOC103162540	103162540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162544	LOC103162544	103162544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.03	0.00
uncharacterized LOC103162550	LOC103162550	103162550	1.61	1.45	0.59	0.81	0.39	0.55	37.22	38.43	17.39	23.18	15.52	19.63
uncharacterized LOC103162552	LOC103162552	103162552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
PRAME family member 12 pseudogene	LOC103162555	103162555	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protein SREK1IP1 pseudogene	LOC103162557	103162557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-4	LOC103162561	103162561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-5-like	LOC103162562	103162562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-8-like	LOC103162564	103162564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-4-like	LOC103162566	103162566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-13-like	LOC103162568	103162568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin alpha-1C chain pseudogene	LOC103162582	103162582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162583	LOC103162583	103162583	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	2.32	1.03	0.00
uncharacterized LOC103162587	LOC103162587	103162587	3.26	2.37	3.70	3.22	4.53	4.08	195.20	148.24	236.00	194.70	240.12	247.69
40S ribosomal protein S2 pseudogene	LOC103162592	103162592	0.00	0.00	0.00	0.00	0.11	0.05	0.76	0.00	1.24	0.00	2.07	0.93
uncharacterized LOC103162593	LOC103162593	103162593	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162594	LOC103162594	103162594	0.84	0.38	1.20	0.72	1.04	1.30	18.99	7.32	21.12	18.54	25.87	28.97

40S ribosomal protein S6 pseudogene	LOC103162595	103162595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162601	LOC103162601	103162601	0.44	0.36	0.00	0.00	0.00	0.00	18.23	14.64	0.00	0.00	0.00	0.00
uncharacterized LOC103162602	LOC103162602	103162602	0.06	0.14	0.00	0.00	0.00	0.00	0.76	3.66	0.00	0.00	0.00	0.00
uncharacterized LOC103162603	LOC103162603	103162603	0.07	0.00	0.00	0.00	0.00	0.00	3.04	5.49	0.00	0.00	0.00	0.00
uncharacterized LOC103162605	LOC103162605	103162605	0.03	0.03	0.02	0.04	0.04	0.03	2.28	2.75	3.73	3.48	6.21	2.80
uncharacterized LOC103162608	LOC103162608	103162608	1.91	1.80	1.51	2.14	2.06	2.15	66.08	64.05	60.86	78.81	75.55	76.64
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5	LOC103162614	103162614	58.85	64.25	68.54	76.13	78.59	71.31	342.55	393.46	421.07	440.39	466.78	397.23
uncharacterized LOC103162618	LOC103162618	103162618	0.64	1.23	0.74	0.59	0.94	0.75	14.43	25.62	18.63	12.75	21.73	17.76
eukaryotic translation initiation factor 1 pseudogene	LOC103162620	103162620	3.28	2.82	1.75	1.98	2.16	1.73	90.39	87.84	55.89	64.90	66.24	53.28
40S ribosomal protein S12 pseudogene	LOC103162621	103162621	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162624	LOC103162624	103162624	0.06	0.15	0.00	0.00	0.08	0.08	3.80	2.75	0.00	1.16	2.07	2.80
uncharacterized LOC103162625	LOC103162625	103162625	3.68	4.63	4.68	5.17	5.30	4.92	91.14	107.06	101.85	113.57	117.99	106.55
60S ribosomal protein L34 pseudogene	LOC103162629	103162629	0.11	0.28	0.19	0.37	0.48	0.00	0.76	1.83	1.24	2.32	3.10	0.00
putative protein FAM90A16P/FAM90A17P	LOC103162633	103162633	0.30	0.18	0.13	0.24	0.21	0.10	6.84	1.83	2.48	3.48	5.17	4.67
uncharacterized LOC103162635	LOC103162635	103162635	0.53	0.38	0.23	0.56	0.17	0.19	37.22	26.54	16.15	35.93	9.31	13.09
uncharacterized LOC103162636	LOC103162636	103162636	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103162637	LOC103162637	103162637	0.01	0.05	0.00	0.02	0.00	0.00	0.76	2.75	0.00	1.16	2.07	0.00
uncharacterized LOC103162639	LOC103162639	103162639	0.42	0.66	0.10	0.38	0.42	0.53	9.11	10.07	1.24	4.64	8.28	11.22

uncharacterized LOC103162640	LOC103162640	103162640	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	1.16	3.10	1.87
small ubiquitin-related modifier 2-A-like	LOC103162643	103162643	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162644	LOC103162644	103162644	0.76	0.69	0.52	0.59	0.57	0.63	25.06	25.62	17.39	16.22	21.73	16.82
Ig heavy chain V region 3-6-like	LOC103162647	103162647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-V region K2-like	LOC103162648	103162648	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103162649	LOC103162649	103162649	0.05	0.16	0.03	0.15	0.11	0.04	4.56	10.98	3.73	9.27	9.31	2.80
PRAME family member 12 pseudogene	LOC103162650	103162650	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162652	LOC103162652	103162652	0.03	0.00	0.00	0.00	0.00	0.04	0.76	0.92	0.00	0.00	0.00	0.93
sp110 nuclear body protein-like	LOC103162656	103162656	0.06	0.12	0.07	0.16	0.02	0.05	5.32	7.32	3.73	8.11	1.03	2.80
uncharacterized LOC103162667	LOC103162667	103162667	0.00	1.10	0.00	0.00	0.00	1.43	26.58	16.47	22.36	20.86	18.63	18.69
uncharacterized LOC103162668	LOC103162668	103162668	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.92	3.73	0.00	1.03	0.93
uncharacterized LOC103162669	LOC103162669	103162669	0.17	0.23	0.42	0.20	0.20	0.44	12.91	11.90	16.15	11.59	10.35	18.69
40S ribosomal protein SA-like	LOC103162670	103162670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein SET-like	LOC103162671	103162671	0.13	0.14	0.03	0.14	0.01	0.01	22.03	24.71	7.45	24.34	2.07	0.93
uncharacterized LOC103162672	LOC103162672	103162672	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162673	LOC103162673	103162673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region IR2-like	LOC103162675	103162675	0.00	0.00	0.00	0.00	0.07	0.00						
uncharacterized LOC103162677	LOC103162677	103162677	0.35	0.50	0.40	0.43	0.10	0.43	12.15	16.47	13.66	12.75	5.17	12.15

uncharacterized LOC103162678	LOC103162678	103162678	5.88	4.19	3.00	2.88	4.10	4.20	189.88	160.13	131.66	101.98	109.71	123.38
uncharacterized LOC103162679	LOC103162679	103162679	27.20	28.93	23.17	24.93	30.73	31.74	689.66	753.99	622.29	664.06	791.76	821.57
uncharacterized LOC103162680	LOC103162680	103162680	0.10	0.06	0.16	0.08	0.34	0.24	6.08	3.66	8.69	2.32	12.42	14.95
dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit pseudogene	LOC103162681	103162681	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162683	LOC103162683	103162683	0.26	0.32	0.45	0.00	0.00	0.36	2.28	1.83	2.48	0.00	0.00	0.93
uncharacterized LOC103162684	LOC103162684	103162684	0.12	0.33	0.12	0.15	0.07	0.22	7.60	13.73	6.21	4.64	4.14	11.22
putative golgin subfamily A member 6-like protein 6	LOC103162686	103162686	1.29	1.17	0.43	0.53	0.25	0.11	36.46	33.86	12.42	18.54	7.24	2.80
seminal vesicle secretory protein 5-like	LOC103162688	103162688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain protein 6A	LOC103162690	103162690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rho guanine nucleotide exchange factor 28-like	LOC103162692	103162692	11.69	10.90	17.61	17.24	16.32	19.45	543.07	537.12	858.28	815.88	767.96	892.61
claudin-6-like	LOC103162694	103162694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162696	LOC103162696	103162696	0.00	0.00	0.00	0.00	0.00	0.00	27.34	26.54	14.91	34.77	54.85	43.93
mRNA-capping enzyme pseudogene	LOC103162697	103162697	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 182-like	LOC103162706	103162706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162708	LOC103162708	103162708	0.24	0.35	0.43	0.20	0.43	0.58	11.39	11.90	18.63	11.59	21.73	32.71
dolichyl-phosphate beta-glucosyltransferase-like	LOC103162709	103162709	1.45	1.35	1.13	1.55	1.24	1.22	139.00	131.76	101.85	143.71	114.88	114.96
uncharacterized LOC103162710	LOC103162710	103162710	0.81	0.00	0.00	0.00	0.29	0.00	3.04	3.66	3.73	2.32	4.14	2.80
etoposide-induced protein 2.4 homolog pseudogene	LOC103162712	103162712	0.03	0.04	0.00	0.05	0.16	0.00	0.76	1.83	0.00	1.16	3.10	0.00

peptidyl-prolyl cis-trans isomerase F, mitochondrial pseudogene	LOC103162714	103162714	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	1.24	0.00	2.07	0.00
cadherin-related family member 3-like	LOC103162716	103162716	0.87	0.94	1.57	1.69	0.21	0.12	104.82	116.21	187.56	200.49	21.73	11.22
Ig heavy chain V region PJ14-like	LOC103162718	103162718	0.00	0.00	0.00	0.00	0.00	0.00						
60 kDa heat shock protein, mitochondrial-like	LOC103162724	103162724	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.92	0.00	0.00	0.00	0.93
uncharacterized LOC103162728	LOC103162728	103162728	0.36	0.13	0.54	0.53	0.72	0.47	22.03	15.56	27.33	32.45	45.54	37.39
uncharacterized LOC103162729	LOC103162729	103162729	3.84	4.14	5.02	4.97	5.91	7.16	30.38	30.20	21.12	31.29	34.15	37.39
melanoma-associated antigen E2	LOC103162730	103162730	0.20	0.28	0.43	0.58	0.52	0.29	16.71	16.47	28.57	34.77	37.26	28.97
uncharacterized LOC103162731	LOC103162731	103162731	0.30	0.29	0.27	0.44	0.27	0.56	27.34	32.94	23.60	34.77	28.98	45.80
60S ribosomal protein L37 pseudogene	LOC103162732	103162732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162733	LOC103162733	103162733	9.51	9.81	7.68	7.41	7.89	8.08	364.58	360.52	285.68	274.66	304.29	312.18
40S ribosomal protein S21 pseudogene	LOC103162734	103162734	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC103162735	103162735	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group nucleosome-binding domain-containing protein 3 pseudogene	LOC103162736	103162736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162743	LOC103162743	103162743	1.00	0.59	0.79	0.71	1.30	1.07	25.06	16.47	26.08	23.18	35.19	22.43
uncharacterized LOC103162745	LOC103162745	103162745	0.47	0.79	0.15	0.15	0.91	0.36	10.63	10.07	6.21	6.95	15.52	12.15
uncharacterized LOC103162746	LOC103162746	103162746	0.69	0.88	0.81	0.55	1.08	1.16	35.70	43.01	37.26	32.45	47.61	69.17
uncharacterized LOC103162747	LOC103162747	103162747	1.17	0.64	0.73	0.23	0.70	0.93	46.33	32.94	28.57	33.61	54.85	42.06
uncharacterized LOC103162751	LOC103162751	103162751	4.74	5.86	4.44	4.53	4.32	3.45	177.73	221.44	162.71	179.63	157.32	149.55

zinc finger protein 420-like	LOC103162753	103162753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162755	LOC103162755	103162755	1.67	0.85	1.17	1.12	2.09	1.23	19.75	10.07	13.66	13.91	19.66	15.89
cystatin-B pseudogene	LOC103162756	103162756	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor BTF3 pseudogene	LOC103162761	103162761	1.03	1.94	0.60	0.70	0.90	1.58	7.60	15.56	4.97	5.79	7.24	14.95
uncharacterized LOC103162763	LOC103162763	103162763	1.35	1.32	1.68	0.81	0.47	0.54	18.99	16.47	19.87	11.59	8.28	10.28
uncharacterized LOC103162764	LOC103162764	103162764	2.11	2.32	2.48	2.65	2.01	2.45	127.60	124.44	142.84	152.98	125.23	157.02
uncharacterized LOC103162768	LOC103162768	103162768	14.92	14.83	12.05	13.04	12.13	10.40	490.66	476.73	398.71	448.50	398.47	343.02
uncharacterized LOC103162769	LOC103162769	103162769	1.02	1.38	1.25	1.30	1.38	1.45	69.88	93.33	86.95	90.40	86.94	94.40
uncharacterized LOC103162770	LOC103162770	103162770	5.83	5.95	7.47	8.40	14.14	12.01	1032.21	1067.84	1296.74	1489.21	2443.60	2151.61
uncharacterized LOC103162771	LOC103162771	103162771	2.90	2.91	1.47	2.19	1.57	1.28	107.85	109.80	64.59	97.35	65.20	61.69
transcription elongation factor 1 homolog pseudogene	LOC103162773	103162773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf167	LOC103162778	103162778	0.03	0.02	0.04	0.00	0.00	0.02	161.78	171.11	196.25	129.80	116.95	128.98
60S ribosomal protein L7a pseudogene	LOC103162779	103162779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC103162780	103162780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162781	LOC103162781	103162781	0.91	0.00	0.52	0.54	0.88	0.42	9.11	7.32	7.45	6.95	5.17	3.74
uncharacterized LOC103162784	LOC103162784	103162784	0.30	0.37	1.29	0.88	0.00	0.00	17.47	16.47	38.50	33.61	0.00	0.93
uncharacterized LOC103162787	LOC103162787	103162787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162789	LOC103162789	103162789	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.93

beta-centractin pseudogene	LOC103162790	103162790	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162793	LOC103162793	103162793	10.21	7.17	9.52	10.33	9.66	7.62	37.98	34.77	26.08	35.93	28.98	23.37
uncharacterized LOC103162794	LOC103162794	103162794	0.19	0.27	0.10	0.09	0.14	0.04	11.39	7.32	3.73	4.64	9.31	9.35
beta-defensin 110-like	LOC103162801	103162801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162803	LOC103162803	103162803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103162804	LOC103162804	103162804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162806	LOC103162806	103162806	0.00	0.48	0.00	0.24	0.00	0.19	24.31	17.39	13.66	12.75	13.45	16.82
uncharacterized LOC103162812	LOC103162812	103162812	0.12	0.14	0.09	0.12	0.02	0.04	17.47	21.05	13.66	15.07	3.10	5.61
uncharacterized LOC103162816	LOC103162816	103162816	0.08	0.00	0.00	0.00	0.24	0.11	0.76	0.00	1.24	0.00	3.10	1.87
uncharacterized LOC103162820	LOC103162820	103162820	1.09	0.94	0.90	0.25	0.98	0.89	39.50	39.35	38.50	27.81	38.29	44.86
uncharacterized LOC103162823	LOC103162823	103162823	1.58	1.38	1.99	1.73	2.40	2.37	98.74	90.59	135.39	125.16	159.39	165.44
uncharacterized LOC103162824	LOC103162824	103162824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	0.00	1.16	1.03	0.00
uncharacterized LOC103162826	LOC103162826	103162826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
prostate and testis expressed protein 2-like	LOC103162828	103162828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secreted seminal-vesicle Ly-6 protein 1-like	LOC103162830	103162830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oligosaccharyltransferase complex subunit OSTC pseudogene	LOC103162835	103162835	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
uncharacterized LOC103162840	LOC103162840	103162840	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
serine/threonine-protein phosphatase 4 regulatory subunit 3A pseudogene	LOC103162841	103162841	0.02	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00

uncharacterized LOC103162843	LOC103162843	103162843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mastermind-like protein 2	LOC103162844	103162844	1.86	1.81	1.86	1.92	2.16	2.42	90.39	87.84	89.43	90.40	104.53	119.64
uncharacterized LOC103162845	LOC103162845	103162845	0.27	0.33	0.25	0.19	0.50	0.59	14.43	15.56	16.15	18.54	28.98	26.17
uncharacterized LOC103162849	LOC103162849	103162849	11.50	9.59	11.84	14.77	26.39	26.63	177.73	159.22	134.15	183.11	305.32	297.22
uncharacterized LOC103162851	LOC103162851	103162851	2.56	3.26	0.74	0.97	1.93	1.55	108.61	125.36	36.02	46.36	73.48	59.82
uncharacterized LOC103162856	LOC103162856	103162856	0.05	0.05	0.06	0.11	0.12	0.13	16.71	17.39	26.08	20.86	19.66	22.43
proteasome activator complex subunit 1 pseudogene	LOC103162858	103162858	4.13	4.66	5.72	4.98	4.98	4.32	64.56	73.20	108.06	90.40	87.97	72.90
histone H3.3C-like	LOC103162859	103162859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103162863	LOC103162863	103162863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162864	LOC103162864	103162864	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cAMP-dependent protein kinase inhibitor gamma pseudogene	LOC103162865	103162865	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
glucosamine 6-phosphate N-acetyltransferase pseudogene	LOC103162867	103162867	0.41	0.35	0.39	0.21	0.42	0.25	10.63	8.24	8.69	5.79	9.31	5.61
uncharacterized LOC103162873	LOC103162873	103162873	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
keratin-associated protein 17-1	LOC103162874	103162874	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 29-1	LOC103162876	103162876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-7-like	LOC103162881	103162881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162884	LOC103162884	103162884	3.14	2.80	2.17	2.84	3.57	3.36	123.80	108.89	84.46	103.14	142.83	130.85
THO complex subunit 3 pseudogene	LOC103162887	103162887	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103162891	LOC103162891	103162891	0.00	0.12	0.00	0.16	0.00	0.00	0.00	1.83	1.24	2.32	1.03	1.87
uncharacterized LOC103162892	LOC103162892	103162892	0.25	0.00	0.43	0.00	0.00	0.34	2.28	0.92	2.48	1.16	5.17	2.80
uncharacterized LOC103162893	LOC103162893	103162893	0.00	0.00	0.00	0.00	0.00	0.00	3.04	3.66	2.48	4.64	5.17	1.87
glyceraldehyde-3-phosphate dehydrogenase-like	LOC103162894	103162894	0.10	0.04	0.00	0.05	0.00	0.16	5.32	1.83	1.24	1.16	6.21	3.74
uncharacterized LOC103162897	LOC103162897	103162897	0.13	0.08	0.11	0.20	0.25	0.22	13.67	8.24	6.21	18.54	20.70	19.63
zinc finger protein 58-like	LOC103162898	103162898	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162901	LOC103162901	103162901	0.04	0.02	0.02	0.02	0.00	0.01	6.84	3.66	3.73	4.64	0.00	1.87
uncharacterized LOC103162905	LOC103162905	103162905	0.07	0.18	0.12	0.33	0.26	0.36	5.32	4.58	11.18	8.11	8.28	4.67
enhancer of rudimentary homolog pseudogene	LOC103162906	103162906	0.00	0.00	0.11	0.10	0.09	0.00	0.76	0.00	1.24	2.32	1.03	0.93
glyceraldehyde-3-phosphate dehydrogenase-like	LOC103162907	103162907	0.00	0.06	0.00	0.07	0.00	0.06	0.00	0.92	0.00	3.48	3.10	1.87
uncharacterized LOC103162908	LOC103162908	103162908	0.13	0.05	0.07	0.10	0.03	0.10	9.87	4.58	6.21	10.43	4.14	8.41
uncharacterized LOC103162913	LOC103162913	103162913	0.21	0.23	0.13	0.23	0.19	0.24	28.10	31.11	18.63	26.66	20.70	29.91
uncharacterized LOC103162916	LOC103162916	103162916	2.29	2.57	2.40	2.19	3.41	3.24	31.14	27.45	29.81	24.34	38.29	42.06
uncharacterized LOC103162918	LOC103162918	103162918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162919	LOC103162919	103162919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162920	LOC103162920	103162920	0.30	0.29	0.18	0.19	0.26	0.47	17.47	17.39	12.42	10.43	14.49	27.11
uncharacterized LOC103162921	LOC103162921	103162921	0.15	0.51	0.35	0.00	0.30	0.43	4.56	5.49	6.21	1.16	4.14	5.61
uncharacterized LOC103162922	LOC103162922	103162922	0.01	0.01	0.00	0.00	0.00	0.00	1.52	1.83	0.00	1.16	0.00	0.00

E3 ubiquitin-protein ligase MSL2	LOC103162924	103162924	0.05	0.00	0.14	0.00	0.26	0.04	3.80	2.75	3.73	4.64	9.31	7.48
zinc finger protein 436 pseudogene	LOC103162925	103162925	0.03	0.03	0.00	0.05	0.06	0.09	0.00	0.00	2.48	0.00	2.07	0.93
uncharacterized LOC103162926	LOC103162926	103162926	2.17	2.03	2.42	2.34	2.83	3.15	236.98	236.99	280.71	292.05	305.32	341.15
uncharacterized LOC103162927	LOC103162927	103162927	0.36	0.43	0.24	0.32	0.31	0.44	22.03	24.71	13.66	23.18	15.52	24.30
uncharacterized LOC103162931	LOC103162931	103162931	0.07	0.01	0.10	0.19	0.34	0.28	6.08	2.75	7.45	15.07	23.80	21.50
uncharacterized LOC103162932	LOC103162932	103162932	0.44	0.13	0.55	0.89	0.62	0.43	6.08	3.66	6.21	9.27	11.38	10.28
uncharacterized LOC103162934	LOC103162934	103162934	0.45	0.18	0.00	0.00	0.64	0.00	9.87	2.75	1.24	5.79	7.24	6.54
uncharacterized LOC103162936	LOC103162936	103162936	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103162937	LOC103162937	103162937	0.00	0.00	0.05	0.00	0.00	0.00	0.00	1.83	1.24	1.16	0.00	0.00
stress response protein NST1-like	LOC103162941	103162941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162948	LOC103162948	103162948	0.10	0.11	0.06	0.10	0.01	0.02	25.82	31.11	13.66	24.34	3.10	4.67
uncharacterized LOC103162949	LOC103162949	103162949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAD2L1-binding protein pseudogene	LOC103162951	103162951	0.00	0.10	0.07	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00
40S ribosomal protein S2 pseudogene	LOC103162953	103162953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103162956	LOC103162956	103162956	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103162991	LOC103162991	103162991	1.72	1.80	3.83	4.08	3.99	4.46	141.27	143.66	330.40	316.39	322.92	370.13
uncharacterized LOC103162993	LOC103162993	103162993	41.12	39.74	29.17	30.85	24.43	26.85	2312.04	2204.32	1725.26	1751.13	1458.30	1557.16
uncharacterized LOC103162996	LOC103162996	103162996	2.49	2.68	1.26	1.23	1.75	2.05	252.93	277.26	103.09	122.85	193.54	195.35

uncharacterized LOC103162998	LOC103162998	103162998	12.94	12.25	9.57	8.34	8.88	9.34	601.56	575.56	471.99	411.42	440.90	475.75
uncharacterized LOC103163000	LOC103163000	103163000	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	1.24	2.32	1.03	2.80
40S ribosomal protein SA-like	LOC103163002	103163002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163003	LOC103163003	103163003	0.15	0.25	0.03	0.06	0.13	0.13	9.87	14.64	2.48	3.48	5.17	7.48
uncharacterized LOC103163004	LOC103163004	103163004	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103163005	LOC103163005	103163005	0.96	0.91	0.18	0.00	0.00	0.00	14.43	12.81	1.24	2.32	0.00	0.00
40S ribosomal protein S6-like	LOC103163009	103163009	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	0.00	1.16	0.00	0.00
nascent polypeptide-associated complex subunit alpha, muscle-specific form-like	LOC103163018	103163018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyadenylate-binding protein 1 pseudogene	LOC103163019	103163019	1.75	1.43	1.60	1.74	1.45	1.10	33.42	21.96	27.33	39.40	21.73	16.82
uncharacterized LOC103163020	LOC103163020	103163020	0.23	0.00	0.00	0.00	0.00	0.30	3.80	5.49	4.97	2.32	5.17	1.87
uncharacterized LOC103163021	LOC103163021	103163021	0.49	0.24	0.12	0.70	0.37	0.27	19.75	16.47	6.21	13.91	17.59	14.02
uncharacterized LOC103163022	LOC103163022	103163022	0.11	0.00	0.00	0.35	0.15	0.00	2.28	2.75	1.24	2.32	1.03	0.00
tubulin beta-5 chain-like	LOC103163024	103163024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163026	LOC103163026	103163026	0.12	0.00	0.00	0.00	0.17	0.00	2.28	0.92	0.00	0.00	1.03	0.00
uncharacterized LOC103163027	LOC103163027	103163027	1.62	1.62	0.81	0.77	0.83	0.89	132.92	135.42	70.80	64.90	67.27	75.71
uncharacterized LOC103163028	LOC103163028	103163028	0.29	0.45	0.29	0.33	0.32	0.26	15.95	30.20	13.66	22.02	18.63	17.76
uncharacterized LOC103163029	LOC103163029	103163029	0.65	0.74	0.41	0.49	0.21	0.37	19.75	20.13	8.69	11.59	14.49	10.28
transmembrane protein 14C pseudogene	LOC103163030	103163030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

peptidyl-prolyl cis-trans isomerase A pseudogene	LOC103163031	103163031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 92-like	LOC103163033	103163033	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163034	LOC103163034	103163034	0.18	0.00	0.15	0.15	0.38	0.23	2.28	0.92	2.48	0.00	2.07	0.93
uncharacterized LOC103163036	LOC103163036	103163036	1.35	0.90	1.06	1.32	0.69	1.31	31.90	21.05	18.63	25.50	17.59	27.11
uncharacterized LOC103163044	LOC103163044	103163044	1.57	2.38	1.21	0.99	1.11	2.01	36.46	45.75	36.02	33.61	32.08	42.99
	LOC103163045	103163045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163048	LOC103163048	103163048	0.00	0.13	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	2.07	0.00
chromosome unknown open reading frame, human C15orf54	LOC103163049	103163049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163050	LOC103163050	103163050	0.26	0.40	0.24	0.37	0.53	0.39	15.95	19.22	17.39	23.18	39.33	29.91
uncharacterized LOC103163051	LOC103163051	103163051	1.74	1.40	0.00	0.00	2.61	2.00	2.28	6.41	1.24	3.48	8.28	4.67
uncharacterized LOC103163052	LOC103163052	103163052	0.31	0.37	0.20	0.58	0.34	0.15	5.32	9.15	3.73	11.59	12.42	10.28
HERV-K_19q12 provirus ancestral Pol protein-like	LOC103163055	103163055	1.48	1.79	2.23	2.47	2.96	2.77	71.40	90.59	121.72	127.48	145.93	143.00
retrovirus-related Pol polyprotein from transposon opus-like	LOC103163056	103163056	4.59	4.50	6.70	7.32	6.98	7.03	24.31	25.62	37.26	40.56	28.98	28.04
uncharacterized LOC103163057	LOC103163057	103163057	0.00	0.24	0.33	0.33	0.00	0.00	1.52	2.75	1.24	4.64	5.17	5.61
uncharacterized LOC103163059	LOC103163059	103163059	5.78	4.89	5.58	6.08	7.61	7.37	177.73	140.92	170.17	173.84	208.03	206.56
ATP synthase F(0) complex subunit C1, mitochondrial pseudogene	LOC103163062	103163062	0.00	0.00	0.00	0.00	0.10	0.00	0.76	0.92	0.00	1.16	2.07	1.87
40S ribosomal protein S13-like	LOC103163064	103163064	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
28S ribosomal protein S36, mitochondrial pseudogene	LOC103163068	103163068	0.14	0.20	0.07	0.16	0.15	0.17	7.60	10.98	3.73	8.11	8.28	8.41

uncharacterized LOC103163070	LOC103163070	103163070	148.35	166.54	151.32	140.79	142.80	144.10	2142.66	2418.43	2246.94	1994.50	2049.27	1993.65
uncharacterized LOC103163071	LOC103163071	103163071	0.27	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	1.03	0.93
transmembrane emp24 domain-containing protein 2 pseudogene	LOC103163078	103163078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC103163080	103163080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163082	LOC103163082	103163082	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103163083	LOC103163083	103163083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sugar phosphate exchanger 3 pseudogene	LOC103163084	103163084	0.06	0.04	0.10	0.05	0.00	0.04	1.52	0.92	2.48	1.16	0.00	0.93
uncharacterized LOC103163085	LOC103163085	103163085	1.70	1.84	0.58	1.27	3.58	2.48	9.87	13.73	4.97	10.43	26.91	18.69
glyceraldehyde-3-phosphate dehydrogenase-like	LOC103163088	103163088	0.25	0.17	0.27	0.17	0.08	0.17	7.60	4.58	7.45	6.95	2.07	6.54
small ubiquitin-related modifier 2 pseudogene	LOC103163090	103163090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
charged multivesicular body protein 5 pseudogene	LOC103163091	103163091	0.51	0.64	0.37	0.32	0.74	0.76	6.08	11.90	11.18	10.43	16.56	14.02
uncharacterized LOC103163096	LOC103163096	103163096	0.78	1.00	0.76	0.90	1.16	1.37	108.61	150.07	105.58	125.16	158.35	185.06
40S ribosomal protein S27-like	LOC103163097	103163097	0.20	0.48	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	1.03	0.00
uncharacterized LOC103163101	LOC103163101	103163101	60.94	66.28	64.19	73.72	76.61	73.80	1516.80	1643.40	1584.90	1783.58	1885.75	1829.15
60S ribosomal protein L31 pseudogene	LOC103163102	103163102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163104	LOC103163104	103163104	4.68	4.50	3.54	5.20	4.92	4.40	319.77	294.64	284.44	315.23	287.73	280.40
uncharacterized LOC103163107	LOC103163107	103163107	2.78	3.07	3.45	4.54	3.58	4.38	18.99	22.88	23.60	27.81	24.84	27.11
gastric triacylglycerol lipase-like	LOC103163108	103163108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103163115	LOC103163115	103163115	1.06	1.05	1.19	1.43	1.60	1.74	37.98	36.60	38.50	45.20	56.92	57.95
uncharacterized LOC103163117	LOC103163117	103163117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163118	LOC103163118	103163118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cleavage and polyadenylation specificity factor subunit 5 pseudogene	LOC103163119	103163119	0.00	0.00	0.00	0.00	0.06	0.00	4.56	0.00	2.48	0.00	5.17	3.74
putative uncharacterized protein C12orf63	LOC103163120	103163120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C12orf55	LOC103163121	103163121	0.04	0.02	0.01	0.00	0.00	0.02	5.32	2.75	1.24	1.16	1.03	4.67
uncharacterized LOC103163126	LOC103163126	103163126	1.10	1.19	1.10	0.89	1.08	0.99	10.63	12.81	9.94	8.11	12.42	12.15
uncharacterized LOC103163127	LOC103163127	103163127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163129	LOC103163129	103163129	0.00	0.00	0.00	0.00	0.00	0.00	2.28	4.58	3.73	0.00	1.03	1.87
uncharacterized LOC103163131	LOC103163131	103163131	0.41	0.54	0.87	1.07	1.41	1.13	17.47	23.79	37.26	44.04	57.96	49.54
uncharacterized LOC103163133	LOC103163133	103163133	1.45	1.92	0.34	0.98	0.67	0.66	45.57	51.24	16.15	25.50	34.15	25.24
uncharacterized LOC103163137	LOC103163137	103163137	1.17	0.94	0.92	0.81	0.48	1.35	50.13	47.58	38.50	38.24	43.47	38.32
uncharacterized LOC103163143	LOC103163143	103163143	1.28	1.09	0.31	0.35	0.31	0.51	28.10	24.71	6.21	6.95	7.24	12.15
uncharacterized LOC103163144	LOC103163144	103163144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163145	LOC103163145	103163145	4.31	2.58	1.94	2.23	1.66	0.00	31.90	24.71	16.15	11.59	7.24	17.76
uncharacterized LOC103163147	LOC103163147	103163147	0.03	0.12	0.00	0.00	0.04	0.00	1.52	2.75	0.00	0.00	1.03	0.00
putative uncharacterized protein	LOC103163152	103163152	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	2.80
uncharacterized LOC103163153	LOC103163153	103163153	0.04	0.00	0.00	0.18	0.05	0.24	0.76	1.83	2.48	3.48	6.21	14.02

uncharacterized LOC103163154	LOC103163154	103163154	1.48	1.07	1.84	1.64	2.58	1.68	21.27	16.47	19.87	22.02	30.01	23.37
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103163156	103163156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat-containing protein 70-like	LOC103163157	103163157	1.09	1.28	0.46	1.50	1.12	1.16	26.58	32.03	9.94	37.09	26.91	29.91
leucine-rich repeat-containing protein 70-like	LOC103163159	103163159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00
chromosome unknown open reading frame, human C5orf64	LOC103163161	103163161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-IV region-like	LOC103163162	103163162	0.00	0.00	0.00	0.00	0.00	0.00						
olfactory receptor 52Z1-like	LOC103163167	103163167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163172	LOC103163172	103163172	0.99	0.75	0.41	0.20	0.34	0.39	21.27	20.13	9.94	10.43	4.14	8.41
uncharacterized LOC103163178	LOC103163178	103163178	0.00	0.00	0.00	0.00	0.00	0.09	3.04	0.92	1.24	0.00	0.00	0.93
uncharacterized LOC103163179	LOC103163179	103163179	0.46	0.32	0.44	0.30	0.53	0.48	9.87	8.24	8.69	12.75	15.52	10.28
uncharacterized LOC103163180	LOC103163180	103163180	0.04	0.05	0.00	0.14	0.25	0.28	1.52	4.58	1.24	2.32	5.17	7.48
uncharacterized LOC103163181	LOC103163181	103163181	0.00	0.41	0.59	0.00	0.00	0.00	0.00	1.83	1.24	0.00	3.10	0.00
GRB2-associated-binding protein 2 pseudogene	LOC103163182	103163182	0.11	0.07	0.00	0.00	0.15	0.14	0.76	3.66	0.00	1.16	2.07	4.67
uncharacterized LOC103163189	LOC103163189	103163189	0.00	0.18	0.00	0.24	0.00	0.00	0.76	0.92	0.00	1.16	0.00	1.87
protein transport protein Sec61 subunit gamma-like	LOC103163190	103163190	0.08	0.00	0.04	0.13	0.04	0.20	2.28	0.92	2.48	5.79	1.03	7.48
40S ribosomal protein S28 pseudogene	LOC103163191	103163191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 102-like	LOC103163193	103163193	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103163194	LOC103163194	103163194	0.25	0.18	0.25	0.27	0.60	0.69	12.91	7.32	8.69	11.59	22.77	21.50

uncharacterized LOC103163195	LOC103163195	103163195	0.05	0.03	0.03	0.05	0.06	0.07	5.32	5.49	3.73	4.64	6.21	6.54
uncharacterized LOC103163196	LOC103163196	103163196	0.02	0.00	0.04	0.00	0.00	0.03	0.76	0.00	1.24	0.00	1.03	2.80
uncharacterized LOC103163200	LOC103163200	103163200	28.18	29.17	22.24	27.72	24.66	24.03	709.41	691.77	555.21	661.74	606.50	624.36
chromosome unknown open reading frame, human C1orf64	LOC103163202	103163202	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.93
uncharacterized LOC103163206	LOC103163206	103163206	1.21	1.41	0.92	0.60	0.15	0.15	152.67	182.09	55.89	85.76	19.66	16.82
uncharacterized LOC103163207	LOC103163207	103163207	0.09	0.09	0.06	0.03	0.05	0.00	6.08	3.66	2.48	4.64	5.17	1.87
60S ribosomal protein L17 pseudogene	LOC103163208	103163208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC103163209	103163209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163211	LOC103163211	103163211	0.06	0.00	0.00	0.09	0.08	0.00	0.76	0.00	0.00	1.16	2.07	0.93
chromosome unknown open reading frame, human C1orf53	LOC103163212	103163212	2.64	2.45	3.07	2.54	2.10	1.68	37.22	27.45	37.26	27.81	26.91	27.11
uncharacterized LOC103163213	LOC103163213	103163213	0.08	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163214	LOC103163214	103163214	0.09	0.02	0.03	0.14	0.05	0.02	3.80	0.92	1.24	5.79	2.07	2.80
uncharacterized LOC103163215	LOC103163215	103163215	0.00	2.40	0.00	0.00	0.00	0.00	10.63	8.24	18.63	12.75	1.03	0.00
histone H2A.V-like	LOC103163218	103163218	2.56	1.99	1.92	0.99	0.69	0.67	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163219	LOC103163219	103163219	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	3.10	0.93
nascent polypeptide-associated complex subunit alpha pseudogene	LOC103163220	103163220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 4E-binding protein 1 pseudogene	LOC103163221	103163221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	1.03	0.93
NKG2D ligand 1-like	LOC103163222	103163222	0.16	0.14	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103163223	LOC103163223	103163223	0.17	0.32	0.04	0.26	0.10	0.24	5.32	10.07	2.48	10.43	4.14	8.41
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103163224	103163224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
androglobin-like	LOC103163228	103163228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163231	LOC103163231	103163231	0.38	0.57	0.20	0.22	0.24	0.27	27.34	28.37	14.91	13.91	14.49	13.09
uncharacterized LOC103163232	LOC103163232	103163232	4.04	4.51	3.83	4.76	6.01	6.21	192.16	209.54	223.58	232.94	259.78	305.64
uncharacterized LOC103163233	LOC103163233	103163233	0.71	0.63	0.05	0.28	0.00	0.10	9.11	11.90	2.48	2.32	0.00	1.87
uncharacterized LOC103163234	LOC103163234	103163234	8.54	8.05	4.97	4.91	4.30	4.24	81.27	88.76	49.68	47.52	47.61	43.93
uncharacterized LOC103163237	LOC103163237	103163237	5.28	5.59	1.07	1.14	0.11	0.05	274.95	254.38	36.02	48.67	3.10	3.74
uncharacterized LOC103163238	LOC103163238	103163238	0.47	0.88	0.09	0.08	0.29	0.07	8.35	16.47	2.48	0.00	6.21	1.87
uncharacterized LOC103163240	LOC103163240	103163240	2.30	2.36	4.03	3.31	3.69	2.03	34.94	37.52	48.44	47.52	45.54	38.32
chromosome unknown open reading frame, human C4orf32	LOC103163242	103163242	3.55	3.05	1.32	1.47	1.50	1.96	87.35	82.35	40.99	35.93	34.15	45.80
uncharacterized LOC103163243	LOC103163243	103163243	0.93	1.12	0.90	0.79	1.42	1.04	63.04	74.12	55.89	52.15	92.11	68.23
DNA-directed RNA polymerase III subunit RPC6 pseudogene	LOC103163245	103163245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163249	LOC103163249	103163249	0.21	0.18	0.19	0.09	0.04	0.00	6.08	6.41	8.69	3.48	4.14	1.87
heat shock protein HSP 90-beta pseudogene	LOC103163251	103163251	0.22	0.21	0.16	0.12	0.05	0.06	6.84	5.49	4.97	3.48	1.03	1.87
uncharacterized LOC103163253	LOC103163253	103163253	78.14	71.92	91.08	84.37	82.57	71.06	337.24	294.64	373.87	245.69	193.54	147.68
uncharacterized LOC103163254	LOC103163254	103163254	0.00	0.00	0.00	0.47	0.00	0.00	0.76	1.83	2.48	2.32	2.07	0.93
uncharacterized LOC103163258	LOC103163258	103163258	2.94	2.42	3.35	3.83	3.98	4.11	31.90	26.54	47.20	61.42	43.47	47.67

rho GTPase-activating protein 20-like	LOC103163260	103163260	0.04	0.13	0.00	0.00	0.03	0.08	3.80	5.49	0.00	2.32	1.03	2.80
chromosome unknown open reading frame, human CXorf65	LOC103163261	103163261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37a-like	LOC103163262	103163262	0.04	0.04	0.12	0.00	0.20	0.00	2.28	0.92	3.73	1.16	6.21	0.00
bromodomain and WD repeat-containing protein 1 pseudogene	LOC103163263	103163263	0.45	0.21	0.37	0.38	0.62	0.37	15.19	9.15	16.15	13.91	20.70	13.09
small EDRK-rich factor 1-like	LOC103163265	103163265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
60S ribosomal protein L27 pseudogene	LOC103163270	103163270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163273	LOC103163273	103163273	0.01	0.04	0.05	0.07	0.00	0.00	0.76	1.83	3.73	4.64	0.00	0.00
uncharacterized LOC103163274	LOC103163274	103163274	0.38	0.13	0.53	0.56	0.42	0.43	17.47	9.15	26.08	23.18	21.73	20.56
uncharacterized LOC103163282	LOC103163282	103163282	0.22	0.23	0.28	0.40	0.23	0.14	11.39	9.15	4.97	6.95	6.21	3.74
NEDD8-activating enzyme E1 catalytic subunit pseudogene	LOC103163289	103163289	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 441-like	LOC103163291	103163291	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103163292	103163292	0.00	0.00	0.00	0.00	0.00	0.00						
leukemia-associated protein 7 homolog pseudogene	LOC103163298	103163298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L37a-like	LOC103163313	103163313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103163314	LOC103163314	103163314	0.48	0.52	0.34	0.29	0.00	0.04	28.10	27.45	18.63	13.91	0.00	2.80
uncharacterized LOC103163315	LOC103163315	103163315	0.24	0.21	0.24	0.18	0.12	0.26	9.11	6.41	6.21	6.95	5.17	6.54
uncharacterized LOC103163316	LOC103163316	103163316	0.15	0.12	0.08	0.19	0.48	0.22	6.08	7.32	6.21	8.11	16.56	12.15
replication protein A 30 kDa subunit-like	LOC103163317	103163317	0.63	0.34	0.36	0.24	0.13	0.23	16.71	17.39	13.66	9.27	8.28	8.41

40S ribosomal protein S6 pseudogene	LOC103163318	103163318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163326	LOC103163326	103163326	0.72	0.00	0.00	0.00	0.00	0.00	0.76	0.92	2.48	3.48	3.10	1.87
uncharacterized LOC103163327	LOC103163327	103163327	0.20	0.19	0.33	0.26	0.24	0.36	17.47	16.47	28.57	23.18	22.77	27.11
uncharacterized LOC103163329	LOC103163329	103163329	0.99	0.75	0.62	1.62	0.87	0.48	19.75	17.39	16.15	22.02	12.42	7.48
uncharacterized LOC103163330	LOC103163330	103163330	0.00	0.00	0.00	0.00	0.14	0.00	0.76	0.92	1.24	0.00	3.10	2.80
elongation factor Tu, mitochondrial-like	LOC103163332	103163332	0.27	0.27	0.22	0.14	0.25	0.17	6.84	8.24	4.97	3.48	6.21	7.48
chromosome unknown open reading frame, human C6orf229	LOC103163333	103163333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163337	LOC103163337	103163337	4.04	3.36	1.81	1.98	2.41	2.27	88.87	65.88	39.75	48.67	50.71	46.73
uncharacterized LOC103163338	LOC103163338	103163338	1.29	1.68	1.15	0.85	1.55	0.90	28.86	38.43	24.84	19.70	36.22	23.37
chromosome unknown open reading frame, human C7orf55	LOC103163339	103163339	26.80	25.39	28.34	22.29	17.18	19.73	909.17	851.90	919.14	699.99	533.02	586.97
uncharacterized LOC103163342	LOC103163342	103163342	0.43	0.52	0.00	0.19	0.51	0.31	14.43	23.79	7.45	6.95	17.59	16.82
uncharacterized LOC103163345	LOC103163345	103163345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163346	LOC103163346	103163346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L29-like	LOC103163347	103163347	0.35	0.59	0.48	0.14	0.22	0.31	5.32	10.07	8.69	3.48	4.14	5.61
uncharacterized LOC103163348	LOC103163348	103163348	0.38	0.46	0.29	0.39	0.50	0.92	30.38	35.69	22.36	30.13	37.26	65.43
uncharacterized LOC103163351	LOC103163351	103163351	6.35	6.08	4.97	5.90	6.70	6.44	101.02	96.08	73.28	97.35	99.36	87.86
peptidyl-prolyl cis-trans isomerase A pseudogene	LOC103163353	103163353	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	2.07	0.93
uncharacterized LOC103163356	LOC103163356	103163356	1.37	1.42	0.00	0.01	0.00	0.00	433.70	441.05	3.73	4.64	1.03	0.00

uncharacterized LOC103163357	LOC103163357	103163357	0.92	0.70	0.00	0.05	0.00	0.00	31.14	27.45	0.00	1.16	0.00	0.00
uncharacterized LOC103163359	LOC103163359	103163359	0.09	0.23	0.00	0.07	0.07	0.06	2.28	3.66	0.00	1.16	2.07	1.87
tudor and KH domain-containing protein pseudogene	LOC103163366	103163366	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163367	LOC103163367	103163367	1.12	1.10	0.46	0.89	0.68	0.00	25.82	29.28	17.39	19.70	20.70	9.35
uncharacterized LOC103163372	LOC103163372	103163372	0.04	0.05	0.03	0.00	0.12	0.13	1.52	4.58	6.21	3.48	5.17	4.67
40S ribosomal protein SA pseudogene	LOC103163374	103163374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
uncharacterized LOC103163375	LOC103163375	103163375	2.44	2.25	0.14	0.25	0.30	0.49	111.65	103.40	6.21	10.43	14.49	24.30
uncharacterized LOC103163376	LOC103163376	103163376	0.38	0.38	0.00	0.00	0.00	0.00	5.32	3.66	0.00	1.16	0.00	0.00
uncharacterized LOC103163377	LOC103163377	103163377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163379	LOC103163379	103163379	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103163380	LOC103163380	103163380	0.00	0.17	0.00	0.00	0.00	0.18	2.28	0.92	1.24	0.00	0.00	2.80
uncharacterized LOC103163383	LOC103163383	103163383	2.58	2.36	1.59	1.98	1.82	2.59	103.30	98.82	59.62	73.01	104.53	112.16
uncharacterized LOC103163385	LOC103163385	103163385	1.30	1.31	1.19	1.26	1.51	2.10	19.75	27.45	16.15	16.22	24.84	31.78
putative high mobility group protein B1-like 1	LOC103163389	103163389	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163391	LOC103163391	103163391	0.76	0.34	0.00	0.00	0.00	0.00	15.95	11.90	0.00	0.00	0.00	0.00
60S ribosomal protein L18-like	LOC103163392	103163392	0.00	0.00	0.00	0.00	0.00	0.00	77.47	77.78	75.77	44.04	44.50	28.97
uncharacterized LOC103163393	LOC103163393	103163393	0.12	0.00	0.19	0.37	0.00	0.30	3.04	5.49	4.97	9.27	4.14	6.54
60S ribosomal protein L7a-like	LOC103163394	103163394	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103163398	LOC103163398	103163398	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103163400	LOC103163400	103163400	0.14	0.34	0.41	0.17	0.19	0.14	12.15	17.39	14.91	10.43	12.42	6.54
uncharacterized LOC103163404	LOC103163404	103163404	1.72	1.65	1.76	1.74	1.54	1.63	197.48	186.67	197.49	187.75	193.54	204.69
uncharacterized LOC103163407	LOC103163407	103163407	0.67	0.71	0.28	0.79	0.52	0.52	21.27	30.20	17.39	30.13	23.80	28.04
uncharacterized LOC103163408	LOC103163408	103163408	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	3.48	0.00	0.93
high mobility group protein B1 pseudogene	LOC103163409	103163409	0.03	0.03	0.09	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A pseudogene	LOC103163411	103163411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LYR motif-containing protein 4 pseudogene	LOC103163413	103163413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1 small nuclear ribonucleoprotein C pseudogene	LOC103163414	103163414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163417	LOC103163417	103163417	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
60S ribosomal protein L37 pseudogene	LOC103163418	103163418	0.13	0.15	0.00	0.21	0.00	0.00	0.76	1.83	1.24	1.16	1.03	0.00
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103163419	103163419	1.52	1.58	1.06	0.95	1.08	0.65	2.28	0.00	1.24	1.16	0.00	0.00
phosphoglycerate kinase 1 pseudogene	LOC103163421	103163421	0.62	0.57	0.63	0.34	0.70	0.46	16.71	15.56	16.15	8.11	18.63	12.15
uncharacterized LOC103163422	LOC103163422	103163422	2.46	3.48	0.23	1.80	1.74	1.78	72.16	70.46	58.38	83.44	66.24	73.84
uncharacterized LOC103163425	LOC103163425	103163425	7.30	7.71	5.75	4.93	8.79	7.18	421.54	430.98	335.36	318.70	479.20	430.88
uncharacterized LOC103163426	LOC103163426	103163426	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103163431	LOC103163431	103163431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103163432	LOC103163432	103163432	1.13	0.91	0.78	1.20	0.79	1.44	18.99	16.47	13.66	15.07	16.56	19.63

uncharacterized LOC103163433	LOC103163433	103163433	0.77	0.60	0.65	0.73	1.23	0.89	34.94	31.11	29.81	31.29	60.03	37.39
spermatogenesis-associated protein 31E1-like	LOC103163435	103163435	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103163437	LOC103163437	103163437	0.58	0.61	0.00	0.23	0.30	0.18	12.15	11.90	3.73	3.48	7.24	4.67
glyceraldehyde-3-phosphate dehydrogenase-like	LOC103163452	103163452	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163453	LOC103163453	103163453	0.85	0.85	1.14	1.23	1.84	1.67	155.71	161.96	214.88	231.78	336.37	320.59
uncharacterized LOC103163458	LOC103163458	103163458	0.00	0.17	0.00	0.00	0.00	0.00	6.08	3.66	0.00	3.48	0.00	0.93
uncharacterized LOC103163459	LOC103163459	103163459	1.35	1.66	1.12	1.43	1.95	1.45	53.93	67.71	44.72	60.26	74.52	61.69
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 3 pseudogene	LOC103163463	103163463	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103163469	LOC103163469	103163469	0.71	0.89	1.25	0.09	0.12	0.14	4.56	4.58	6.21	3.48	5.17	6.54
uncharacterized LOC103163470	LOC103163470	103163470	0.05	0.29	0.31	0.15	0.00	0.06	1.52	1.83	1.24	2.32	1.03	2.80
leukocyte immunoglobulin-like receptor subfamily B member 4	LOC103163489	103163489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte-associated immunoglobulin-like receptor 1	LOC103163490	103163490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative killer cell immunoglobulin-like receptor like protein KIR3DP1	LOC103163503	103163503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
annexin A7 pseudogene	LOC103163507	103163507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRAME family member 12-like	LOC103163509	103163509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleophosmin-like	LOC103163511	103163511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcriptional adapter 3 pseudogene	LOC103163512	103163512	0.10	0.14	0.16	0.12	0.08	0.24	9.11	10.98	12.42	11.59	8.28	20.56
uncharacterized LOC103163518	LOC103163518	103163518	0.81	0.71	0.27	0.40	0.41	0.49	44.05	40.26	18.63	23.18	21.73	24.30

spermatogenesis-associated protein 21-like	LOC103163525	103163525	0.05	0.03	0.00	0.00	0.00	0.00	2.28	7.32	1.24	1.16	0.00	0.00
prorelaxin-like	LOC103163533	103163533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163535	LOC103163535	103163535	0.85	1.02	0.81	1.52	2.64	2.34	31.14	35.69	28.57	48.67	87.97	85.99
uncharacterized LOC103163536	LOC103163536	103163536	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103163538	LOC103163538	103163538	0.42	0.40	0.11	0.14	0.09	0.13	30.38	28.37	6.21	9.27	10.35	7.48
Ig heavy chain V region 102-like	LOC103163545	103163545	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103163549	LOC103163549	103163549	0.00	0.52	0.28	0.00	0.24	0.44	2.28	4.58	8.69	9.27	7.24	9.35
peptidyl-prolyl cis-trans isomerase A-like	LOC103163553	103163553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 271-like	LOC103163561	103163561	0.19	0.23	0.25	0.23	0.37	0.33	7.60	6.41	6.21	4.64	10.35	8.41
uncharacterized LOC103163563	LOC103163563	103163563	0.60	0.79	0.59	1.03	0.83	0.90	9.87	20.13	12.42	20.86	15.52	14.02
prolactin-3D1-like	LOC103163567	103163567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163568	LOC103163568	103163568	12.70	12.96	10.23	11.61	11.13	12.87	263.56	257.12	213.64	283.94	257.71	283.20
uncharacterized LOC103163569	LOC103163569	103163569	0.09	0.14	0.00	0.09	0.04	0.26	4.56	5.49	0.00	2.32	6.21	8.41
40S ribosomal protein S15a pseudogene	LOC103163574	103163574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC103163576	103163576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163577	LOC103163577	103163577	0.00	0.36	0.25	0.00	0.21	0.59	0.00	1.83	1.24	0.00	1.03	3.74
histone deacetylase 1 pseudogene	LOC103163578	103163578	0.07	0.08	0.00	0.11	0.00	0.17	0.76	0.92	0.00	1.16	0.00	1.87
uncharacterized LOC103163582	LOC103163582	103163582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

UDP-glucuronosyltransferase 2B31-like	LOC103163585	103163585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163591	LOC103163591	103163591	0.05	0.12	0.17	0.24	0.35	0.13	2.28	8.24	8.69	1.16	4.14	5.61
uncharacterized LOC103163593	LOC103163593	103163593	0.00	0.00	0.00	0.00	0.08	0.00	1.52	0.00	1.24	0.00	1.03	0.00
uncharacterized LOC103163594	LOC103163594	103163594	0.01	0.04	0.04	0.08	0.07	0.10	0.76	2.75	3.73	5.79	5.17	8.41
uncharacterized LOC103163596	LOC103163596	103163596	3.96	3.81	2.25	2.85	2.87	3.03	448.13	444.71	262.08	330.29	347.76	370.13
uncharacterized LOC103163598	LOC103163598	103163598	0.14	0.05	0.00	0.00	0.00	0.06	2.28	1.83	0.00	0.00	0.00	0.93
cadherin-related family member 3-like	LOC103163600	103163600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC103163604	103163604	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103163605	LOC103163605	103163605	1.27	1.15	0.76	0.93	1.26	1.09	47.09	38.43	26.08	32.45	42.43	39.26
myocyte-specific enhancer factor 2B-like	LOC103163606	103163606	0.00	0.25	0.34	0.00	0.00	0.00	1.52	1.83	2.48	2.32	0.00	0.93
60S ribosome subunit biogenesis protein NIP7 homolog pseudogene	LOC103163609	103163609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163610	LOC103163610	103163610	4.17	5.69	3.57	3.20	4.99	4.30	134.44	173.86	118.00	99.67	159.39	143.00
uncharacterized LOC103163611	LOC103163611	103163611	0.00	0.00	0.00	0.00	0.00	0.00	6.08	4.58	7.45	5.79	4.14	3.74
uncharacterized LOC103163619	LOC103163619	103163619	0.57	0.69	0.54	1.11	0.33	0.77	25.82	27.45	19.87	35.93	37.26	40.19
fibroblast growth factor 8 pseudogene	LOC103163623	103163623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oocyte-secreted protein 1-like	LOC103163624	103163624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163625	LOC103163625	103163625	0.26	0.47	0.00	0.43	0.55	0.17	3.80	8.24	1.24	3.48	4.14	1.87
uncharacterized LOC103163626	LOC103163626	103163626	0.08	0.15	0.00	0.03	0.00	0.00	3.04	6.41	0.00	1.16	0.00	0.93

uncharacterized LOC103163627	LOC103163627	103163627	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163628	LOC103163628	103163628	2.73	2.53	1.19	1.74	1.39	1.29	97.22	86.93	38.50	59.10	54.85	51.41
uncharacterized LOC103163630	LOC103163630	103163630	0.18	0.22	0.30	0.05	0.13	0.04	10.63	15.56	9.94	5.79	6.21	3.74
uncharacterized LOC103163631	LOC103163631	103163631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103163632	LOC103163632	103163632	0.22	0.26	0.18	0.33	0.26	0.27	13.67	16.47	17.39	19.70	16.56	18.69
uncharacterized LOC103163633	LOC103163633	103163633	0.04	0.05	0.00	0.03	0.06	0.18	3.04	4.58	0.00	3.48	8.28	10.28
uncharacterized LOC103163634	LOC103163634	103163634	0.47	0.88	0.21	0.53	0.65	0.43	21.27	24.71	9.94	25.50	24.84	20.56
uncharacterized LOC103163642	LOC103163642	103163642	0.11	0.00	0.71	0.00	0.00	0.00	0.76	0.00	6.21	1.16	1.03	0.93
neurotrophin receptor-interacting factor 1-like	LOC103163648	103163648	19.95	19.02	19.26	18.76	18.68	16.88	1271.47	1199.61	1255.75	1202.96	1174.71	1079.54
zinc finger protein 606	LOC103163650	103163650	0.86	0.86	0.97	1.34	1.66	1.47	101.78	98.82	116.76	156.45	184.23	164.50
protein SET-like	LOC103163655	103163655	0.00	0.05	0.00	0.00	0.11	0.00	0.00	1.83	0.00	0.00	2.07	1.87
protein SET-like	LOC103163656	103163656	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 26-like	LOC103163658	103163658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vomeronasal type-2 receptor 26-like	LOC103163660	103163660	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163663	LOC103163663	103163663	0.31	0.21	0.28	0.18	0.17	0.23	16.71	10.98	16.15	10.43	12.42	13.09
splicing factor 3A subunit 2-like	LOC103163669	103163669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vitamin K epoxide reductase complex subunit 1 pseudogene	LOC103163677	103163677	0.03	0.15	0.04	0.00	0.10	0.06	0.76	4.58	1.24	1.16	5.17	1.87
heterogeneous nuclear ribonucleoprotein R-like	LOC103163681	103163681	0.07	0.00	0.00	0.31	0.09	0.17	0.76	0.92	1.24	5.79	1.03	2.80

uncharacterized LOC103163684	LOC103163684	103163684	0.00	0.00	0.07	0.00	0.00	0.11	0.00	0.00	3.73	0.00	0.00	2.80
heterogeneous nuclear ribonucleoprotein R pseudogene	LOC103163685	103163685	0.16	0.06	0.00	0.00	0.00	0.20	3.04	0.92	1.24	1.16	0.00	4.67
uncharacterized LOC103163686	LOC103163686	103163686	0.64	0.68	0.53	0.35	0.82	0.77	56.21	64.97	55.89	34.77	76.59	78.51
uncharacterized LOC103163693	LOC103163693	103163693	0.86	0.93	1.07	0.89	1.28	1.03	80.51	91.50	104.34	86.92	120.06	98.14
uncharacterized LOC103163695	LOC103163695	103163695	0.09	0.07	0.03	0.04	0.06	0.08	35.70	31.11	16.15	16.22	24.84	32.71
uncharacterized LOC103163696	LOC103163696	103163696	1.71	1.88	1.06	0.78	0.80	0.77	171.66	196.73	99.37	106.62	78.66	84.12
uncharacterized LOC103163700	LOC103163700	103163700	0.45	0.50	0.08	0.07	0.03	0.00	17.47	23.79	3.73	5.79	1.03	1.87
uncharacterized LOC103163701	LOC103163701	103163701	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
uncharacterized LOC103163704	LOC103163704	103163704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163705	LOC103163705	103163705	11.85	11.93	8.22	9.21	6.77	6.35	486.11	485.88	324.18	356.95	276.34	270.12
ADP-ribosylation factor-like	LOC103163706	103163706	0.06	0.08	0.04	0.08	0.05	0.06	4.56	5.49	2.48	4.64	3.10	3.74
60S ribosomal protein L8 pseudogene	LOC103163707	103163707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163711	LOC103163711	103163711	2.10	2.50	0.90	0.30	1.55	2.11	33.42	30.20	16.15	15.07	18.63	19.63
uncharacterized LOC103163713	LOC103163713	103163713	0.49	0.59	0.22	0.35	0.37	0.56	12.15	13.73	9.94	8.11	10.35	16.82
uncharacterized LOC103163714	LOC103163714	103163714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
uncharacterized LOC103163716	LOC103163716	103163716	0.15	0.11	0.08	0.06	0.08	0.06	13.67	11.90	7.45	4.64	7.24	5.61
protein FAM104A-like	LOC103163717	103163717	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103163718	LOC103163718	103163718	0.00	0.83	1.23	0.00	0.00	4.17	9.87	7.32	3.73	4.64	8.28	11.22

uncharacterized LOC103163719	LOC103163719	103163719	2.19	2.10	1.92	1.80	2.24	2.52	199.76	200.39	177.62	169.20	228.73	246.75
uncharacterized LOC103163724	LOC103163724	103163724	1.20	0.74	1.54	0.15	0.78	1.07	3.80	0.00	6.21	2.32	5.17	3.74
uncharacterized LOC103163725	LOC103163725	103163725	1.01	1.07	1.48	0.85	1.44	1.66	10.63	15.56	19.87	9.27	24.84	24.30
uncharacterized LOC103163726	LOC103163726	103163726	232.72	205.00	196.19	205.77	165.90	170.77	4475.96	4005.10	3877.80	3839.50	3044.93	3111.52
putative deoxyribonuclease TATDN2 pseudogene	LOC103163732	103163732	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103163735	LOC103163735	103163735	0.17	0.19	0.26	0.24	0.16	0.28	11.39	11.90	13.66	16.22	10.35	14.95
cyclin-dependent kinase 2-associated protein 1-like	LOC103163737	103163737	0.13	0.30	0.08	0.08	0.31	0.09	3.80	9.15	2.48	2.32	9.31	3.74
rRNA-processing protein FCF1 homolog pseudogene	LOC103163739	103163739	0.00	0.00	0.00	0.00	0.09	0.08	0.00	0.00	0.00	0.00	1.03	0.93
uncharacterized LOC103163744	LOC103163744	103163744	1.12	0.61	1.14	1.32	1.39	1.10	41.02	29.28	36.02	39.40	53.82	38.32
MARCKS-related protein-like	LOC103163745	103163745	0.05	0.06	0.08	0.13	0.09	0.05	0.76	3.66	1.24	3.48	4.14	2.80
60S ribosomal protein L17 pseudogene	LOC103163749	103163749	0.29	0.26	0.23	0.07	0.21	0.25	1.52	0.92	1.24	0.00	1.03	1.87
uncharacterized LOC103163750	LOC103163750	103163750	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103163754	LOC103163754	103163754	4.17	3.79	4.10	4.68	3.84	4.66	227.86	182.09	213.64	228.31	216.31	229.93
uncharacterized LOC103163756	LOC103163756	103163756	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ferritin light chain pseudogene	LOC103163757	103163757	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163759	LOC103163759	103163759	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163761	LOC103163761	103163761	1.91	1.84	1.94	1.70	1.31	1.41	93.42	86.01	89.43	82.28	76.59	71.03
uncharacterized LOC103163762	LOC103163762	103163762	0.00	0.24	0.00	0.34	0.00	0.00	1.52	0.92	0.00	3.48	3.10	2.80

60S ribosomal protein L10-like	LOC103163766	103163766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163772	LOC103163772	103163772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
thymosin beta-10 pseudogene	LOC103163776	103163776	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
peptidyl-prolyl cis-trans isomerase A-like	LOC103163778	103163778	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S15a pseudogene	LOC103163785	103163785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163786	LOC103163786	103163786	0.07	0.17	0.30	0.07	0.55	0.48	4.56	6.41	14.91	2.32	22.77	19.63
ATP synthase subunit d, mitochondrial pseudogene	LOC103163787	103163787	0.05	0.20	0.22	0.13	0.28	0.23	1.52	7.32	9.94	8.11	8.28	12.15
uncharacterized LOC103163788	LOC103163788	103163788	1.67	1.81	1.17	1.61	1.80	1.32	104.82	97.91	83.22	97.35	101.43	90.66
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 4 pseudogene	LOC103163790	103163790	3.31	3.43	1.58	0.67	0.42	0.92	29.62	26.54	14.91	5.79	3.10	5.61
uncharacterized LOC103163792	LOC103163792	103163792	1.99	2.01	1.78	1.12	0.81	0.90	35.70	35.69	29.81	22.02	14.49	17.76
uncharacterized LOC103163794	LOC103163794	103163794	2.05	1.38	0.79	0.47	0.92	0.53	40.26	33.86	19.87	10.43	18.63	14.95
myosin light polypeptide 6-like	LOC103163795	103163795	2.46	2.18	1.76	1.60	2.00	1.93	34.94	26.54	23.60	20.86	23.80	24.30
uncharacterized LOC103163798	LOC103163798	103163798	0.45	0.68	0.02	0.05	0.04	0.06	65.32	86.93	2.48	6.95	6.21	7.48
UPF0693 protein C10orf32 homolog	LOC103163799	103163799	13.75	6.13	15.63	7.53	32.54	8.63	48.61	41.18	40.99	31.29	54.85	41.13
forkhead box protein M1 pseudogene	LOC103163800	103163800	0.00	0.08	0.04	0.00	0.02	0.00	0.00	4.58	2.48	0.00	1.03	0.00
NACHT, LRR and PYD domains-containing protein 1-like	LOC103163801	103163801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163803	LOC103163803	103163803	0.18	0.28	0.33	0.25	1.05	0.57	12.91	14.64	14.91	20.86	38.29	30.84
uncharacterized LOC103163804	LOC103163804	103163804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

histone H3.v1-like	LOC103163807	103163807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triggering receptor expressed on myeloid cells 1-like	LOC103163808	103163808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163815	LOC103163815	103163815	0.41	0.56	0.25	0.08	0.50	0.32	13.67	10.07	3.73	4.64	12.42	7.48
uncharacterized LOC103163816	LOC103163816	103163816	0.10	0.06	0.02	0.02	0.04	0.02	18.23	12.81	1.24	2.32	3.10	0.93
uncharacterized LOC103163820	LOC103163820	103163820	0.00	0.10	0.00	0.14	0.24	0.11	5.32	4.58	4.97	4.64	5.17	2.80
uncharacterized LOC103163821	LOC103163821	103163821	0.00	0.00	0.00	0.00	0.00	0.00	5.32	2.75	2.48	3.48	2.07	5.61
uncharacterized LOC103163823	LOC103163823	103163823	1.77	0.76	2.57	2.07	3.26	2.93	102.54	93.33	207.43	210.92	267.03	257.97
high mobility group protein B1 pseudogene	LOC103163824	103163824	0.36	0.21	0.10	0.09	0.06	0.23	6.84	2.75	1.24	1.16	1.03	3.74
uncharacterized LOC103163825	LOC103163825	103163825	1.00	0.90	0.44	0.42	0.17	0.12	151.91	147.32	70.80	68.38	30.01	22.43
uncharacterized LOC103163828	LOC103163828	103163828	0.98	1.23	0.91	0.77	0.91	0.94	37.98	51.24	38.50	31.29	34.15	32.71
40S ribosomal protein S2-like	LOC103163829	103163829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V-type proton ATPase subunit E 1 pseudogene	LOC103163830	103163830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163831	LOC103163831	103163831	0.00	0.01	0.00	0.02	0.00	0.01	1.52	0.92	0.00	2.32	1.03	1.87
uncharacterized LOC103163833	LOC103163833	103163833	0.06	0.15	0.10	0.10	0.09	0.00	2.28	2.75	1.24	3.48	1.03	2.80
uncharacterized LOC103163834	LOC103163834	103163834	0.49	0.81	0.93	0.81	1.05	1.07	32.66	43.92	48.44	50.99	52.78	62.62
inositol 1,4,5-trisphosphate receptor type 1-like	LOC103163835	103163835	2.33	1.97	2.93	2.40	2.03	2.69	0.00	0.00	0.00	0.00	1.03	0.00
disks large homolog 5-like	LOC103163836	103163836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163838	LOC103163838	103163838	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00

uncharacterized LOC103163839	LOC103163839	103163839	2.87	3.77	2.52	1.84	3.12	2.56	70.64	86.93	60.86	45.20	71.41	66.36
uncharacterized LOC103163840	LOC103163840	103163840	3.33	3.07	2.96	2.74	4.10	3.58	152.67	148.24	155.26	151.82	163.53	195.35
prohibitin pseudogene	LOC103163842	103163842	0.00	0.00	0.00	0.06	0.00	0.05	0.00	1.83	0.00	1.16	0.00	0.93
uncharacterized LOC103163843	LOC103163843	103163843	2.26	1.76	1.65	2.00	2.36	2.60	249.13	199.48	190.04	216.72	256.68	289.75
olfactory receptor 473-like	LOC103163844	103163844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163845	LOC103163845	103163845	0.00	0.00	0.00	0.00	0.00	0.00	34.18	15.56	13.66	6.95	13.45	28.97
uncharacterized LOC103163846	LOC103163846	103163846	2.32	2.05	0.00	0.00	0.00	0.01	344.83	301.05	0.00	0.00	0.00	0.93
uncharacterized LOC103163847	LOC103163847	103163847	0.45	0.33	0.12	0.20	0.22	0.24	14.43	12.81	2.48	5.79	9.31	7.48
uncharacterized LOC103163848	LOC103163848	103163848	0.27	0.49	0.68	0.00	0.77	0.35	3.80	9.15	6.21	1.16	6.21	5.61
uncharacterized LOC103163849	LOC103163849	103163849	0.41	0.25	0.00	0.16	0.00	0.00	10.63	4.58	2.48	1.16	1.03	1.87
X-linked retinitis pigmentosa GTPase regulator-like	LOC103163850	103163850	0.08	0.09	0.07	0.11	0.06	0.09	12.15	13.73	9.94	16.22	8.28	13.09
uncharacterized LOC103163851	LOC103163851	103163851	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103163852	LOC103163852	103163852	7.96	7.36	4.08	4.36	3.69	3.61	147.35	130.85	73.28	75.33	68.31	64.49
uncharacterized LOC103163853	LOC103163853	103163853	0.00	0.00	0.00	0.00	0.00	0.06	0.76	1.83	0.00	0.00	0.00	0.93
uncharacterized LOC103163854	LOC103163854	103163854	0.94	0.53	1.24	1.97	1.30	1.81	22.79	13.73	21.12	37.09	24.84	34.58
extensin-like	LOC103163855	103163855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S12 pseudogene	LOC103163856	103163856	7.05	7.52	8.14	8.95	8.69	8.46	238.50	262.61	276.99	297.84	288.76	288.81
zinc finger protein 564-like	LOC103163857	103163857	3.18	3.58	4.45	5.10	5.34	5.62	92.66	101.57	126.69	151.82	152.14	164.50

histone-binding protein RBBP4 pseudogene	LOC103163858	103163858	0.94	1.08	1.03	0.83	0.80	0.75	64.56	72.29	65.83	53.31	53.82	50.47
uncharacterized LOC103163859	LOC103163859	103163859	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103163860	LOC103163860	103163860	0.00	0.00	0.00	0.00	0.00	0.00	3.80	1.83	2.48	0.00	9.31	0.00
zinc finger protein 449-like	LOC103163861	103163861	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 431-like	LOC103163862	103163862	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAF family member-associated NF-kappa-B activator-like	LOC103163863	103163863	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
axonemal dynein light chain domain-containing protein 1-like	LOC103163865	103163865	0.21	0.12	0.17	0.33	0.43	0.40	3.04	0.92	4.97	5.79	5.17	2.80
eukaryotic initiation factor 4A-III pseudogene	LOC103163866	103163866	1.27	1.33	1.25	1.30	1.36	1.42	118.49	140.00	121.72	129.80	139.72	143.94
uncharacterized LOC103163867	LOC103163867	103163867	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	1.03	0.93
uncharacterized LOC103163868	LOC103163868	103163868	0.58	0.88	0.25	0.96	2.28	1.15	6.84	9.15	11.18	19.70	14.49	15.89
myeloid leukemia factor 2 pseudogene	LOC103163869	103163869	0.30	0.21	0.20	0.16	0.12	0.26	15.95	15.56	12.42	17.38	8.28	14.95
protein FAM104A-like	LOC103163870	103163870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-agglutinin anchorage subunit-like	LOC103163871	103163871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163872	LOC103163872	103163872	17.29	18.41	19.23	21.84	20.90	20.53	214.19	233.33	249.66	267.71	261.85	247.69
serine/threonine-protein kinase WNK1-like	LOC103163873	103163873	1.89	2.34	1.19	1.31	1.29	1.08	123.80	150.07	78.25	86.92	84.87	69.17
uncharacterized LOC103163874	LOC103163874	103163874	1.36	1.22	0.88	0.54	0.63	0.63	22.03	21.05	19.87	8.11	5.17	4.67
ras association domain-containing protein 1-like	LOC103163875	103163875	1.98	2.00	2.08	1.93	2.04	2.19	75.19	71.37	74.53	73.01	75.55	79.45
sperm mitochondrial-associated cysteine-rich protein-like	LOC103163876	103163876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93

40S ribosomal protein S12 pseudogene	LOC103163877	103163877	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163878	LOC103163878	103163878	0.03	0.03	0.04	0.05	0.12	0.06	0.76	1.83	2.48	4.64	8.28	1.87
uncharacterized LOC103163879	LOC103163879	103163879	42.62	42.60	43.41	48.53	51.18	47.03	6337.60	6317.39	6471.27	7236.30	7541.95	7012.83
claudin-22-like	LOC103163880	103163880	0.47	0.42	0.75	0.71	0.84	0.82	35.70	25.62	62.10	48.67	61.06	58.88
neuralized-like protein 4	LOC103163881	103163881	0.17	0.00	0.14	0.00	0.12	0.00	3.04	2.75	1.24	2.32	4.14	3.74
keratin-associated protein 10-4-like	LOC103163882	103163882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 10-5-like	LOC103163883	103163883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative uncharacterized protein ENSP00000383309	LOC103163884	103163884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163885	LOC103163885	103163885	0.66	0.69	0.67	0.32	0.57	0.97	19.75	23.79	22.36	11.59	14.49	23.37
uncharacterized LOC103163886	LOC103163886	103163886	1.99	1.72	1.93	2.32	2.52	3.29	75.95	62.22	79.49	103.14	92.11	121.51
uncharacterized LOC103163887	LOC103163887	103163887	0.64	1.37	1.09	1.34	1.15	0.21	9.87	11.90	11.18	18.54	18.63	14.95
proline-rich protein 23-like	LOC103163888	103163888	0.11	0.05	0.03	0.00	0.00	0.01	0.76	0.92	1.24	0.00	1.03	0.00
uncharacterized LOC103163889	LOC103163889	103163889	2.50	2.08	1.11	1.95	2.05	1.89	46.33	38.43	40.99	49.83	47.61	34.58
60S ribosomal protein L35a pseudogene	LOC103163890	103163890	1.19	1.62	1.13	0.49	1.05	0.87	3.80	6.41	4.97	0.00	4.14	2.80
uncharacterized LOC103163891	LOC103163891	103163891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hormone receptor 4-like	LOC103163893	103163893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
homeobox protein NANOG-like	LOC103163894	103163894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L21 pseudogene	LOC103163895	103163895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

proline-rich protein 23-like	LOC103163896	103163896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein argonaute 1A-like	LOC103163897	103163897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163898	LOC103163898	103163898	2.13	1.95	1.62	1.33	1.74	1.70	91.90	97.91	74.53	62.58	79.69	75.71
uncharacterized LOC103163899	LOC103163899	103163899	0.16	0.00	0.00	0.00	0.00	0.42	0.76	0.92	0.00	0.00	0.00	1.87
melanoma inhibitory activity protein 3-like	LOC103163900	103163900	4.90	4.28	5.67	5.90	5.77	5.39	7.60	7.32	19.87	18.54	38.29	15.89
transducin-like enhancer protein 2	LOC103163901	103163901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163902	LOC103163902	103163902	1.20	1.08	1.48	0.85	0.67	0.30	27.34	26.54	32.29	16.22	15.52	8.41
uncharacterized LOC103163903	LOC103163903	103163903	0.33	0.81	0.58	0.00	1.46	0.00	5.32	3.66	8.69	4.64	9.31	3.74
uncharacterized LOC103163904	LOC103163904	103163904	6.92	7.12	5.08	6.74	6.75	7.16	106.34	111.63	80.74	98.51	121.09	124.31
uncharacterized LOC103163905	LOC103163905	103163905	2.81	3.66	3.12	2.35	2.51	2.36	117.73	144.58	125.45	89.24	92.11	95.34
uncharacterized LOC103163906	LOC103163906	103163906	0.77	0.86	0.24	0.45	0.49	0.28	25.82	22.88	12.42	10.43	12.42	14.95
uncharacterized LOC103163907	LOC103163907	103163907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eukaryotic translation initiation factor 1 pseudogene	LOC103163908	103163908	0.52	0.67	0.15	0.28	0.44	0.42	48.61	61.31	16.15	30.13	41.40	36.45
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1 pseudogene	LOC103163909	103163909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163910	LOC103163910	103163910	1.77	0.81	4.17	0.76	5.43	4.49	17.47	15.56	58.38	39.40	65.20	65.43
40S ribosomal protein S2 pseudogene	LOC103163911	103163911	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
pre-mRNA-splicing regulator WTAP-like	LOC103163912	103163912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163913	LOC103163913	103163913	1.11	0.77	0.60	0.72	0.97	0.79	74.43	52.16	49.68	48.67	65.20	58.88

POU domain, class 5, transcription factor 1 pseudogene	LOC103163914	103163914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC103163915	103163915	0.00	0.06	0.04	0.00	0.00	0.03	0.00	1.83	1.24	2.32	1.03	1.87
40S ribosomal protein S6 pseudogene	LOC103163916	103163916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S6 pseudogene	LOC103163917	103163917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein C3orf30-like	LOC103163918	103163918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163919	LOC103163919	103163919	0.31	0.38	0.11	0.10	0.06	0.06	32.66	40.26	12.42	9.27	5.17	7.48
T-complex protein 1 subunit theta-like	LOC103163920	103163920	71.78	82.75	70.22	73.26	71.08	63.66	862.84	915.03	852.07	847.17	890.09	840.27
uncharacterized LOC103163921	LOC103163921	103163921	21.86	0.00	41.15	0.00	18.13	21.47	45.57	44.84	52.17	50.99	61.06	53.28
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 pseudogene	LOC103163922	103163922	2.38	2.90	3.05	1.32	2.00	1.75	1.52	2.75	1.24	0.00	2.07	0.00
chitinase-like protein PB1E7.04c	LOC103163923	103163923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRAS1-related extracellular matrix protein 1-like	LOC103163924	103163924	0.94	0.96	0.87	0.52	0.66	1.43	34.18	33.86	33.54	24.34	26.91	50.47
FRAS1-related extracellular matrix protein 1-like	LOC103163925	103163925	0.15	0.12	0.17	0.79	0.42	0.57	4.56	5.49	4.97	6.95	7.24	9.35
putative uncharacterized protein	LOC103163926	103163926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRAS1-related extracellular matrix protein 1-like	LOC103163927	103163927	0.25	0.25	0.15	0.30	0.35	0.43	147.35	155.56	124.21	151.82	181.12	190.67
FRAS1-related extracellular matrix protein 1-like	LOC103163928	103163928	0.01	0.02	0.00	0.11	0.00	0.09	2.28	0.92	1.24	4.64	1.03	4.67
cytochrome c-like	LOC103163929	103163929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163930	LOC103163930	103163930	0.24	0.24	0.38	0.15	0.33	0.15	5.32	10.07	9.94	6.95	7.24	3.74
uncharacterized LOC103163931	LOC103163931	103163931	0.12	0.05	0.13	0.18	0.11	0.14	9.11	12.81	4.97	13.91	10.35	10.28

glyceraldehyde-3-phosphate dehydrogenase-like	LOC103163932	103163932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 126A pseudogene	LOC103163933	103163933	0.10	0.19	0.00	0.08	0.07	0.13	1.52	3.66	0.00	1.16	1.03	1.87
uncharacterized LOC103163934	LOC103163934	103163934	0.58	0.35	0.10	0.25	0.29	0.36	36.46	26.54	12.42	16.22	16.56	21.50
vegetative cell wall protein gp1-like	LOC103163935	103163935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163936	LOC103163936	103163936	0.59	0.49	0.56	0.64	0.29	0.43	3.80	2.75	2.48	6.95	2.07	8.41
NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 pseudogene	LOC103163937	103163937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163938	LOC103163938	103163938	0.32	0.49	0.35	0.33	0.52	0.27	15.19	19.22	17.39	18.54	23.80	12.15
histone deacetylase complex subunit SAP18-like	LOC103163939	103163939	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	0.00	1.03	0.00
high mobility group protein B1-like	LOC103163940	103163940	0.00	0.19	0.00	0.00	0.00	0.00	0.00	1.83	1.24	1.16	0.00	0.00
uncharacterized LOC103163941	LOC103163941	103163941	0.27	0.99	0.47	0.47	0.79	0.74	3.04	6.41	1.24	2.32	5.17	3.74
uncharacterized LOC103163942	LOC103163942	103163942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1 regulatory subunit 14A pseudogene	LOC103163944	103163944	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chromosome unknown open reading frame, human C1orf122	LOC103163945	103163945	39.46	35.98	40.77	35.67	26.61	31.74	384.33	354.12	397.47	337.25	269.10	296.29
uncharacterized LOC103163946	LOC103163946	103163946	0.82	0.54	0.52	0.70	0.09	0.56	15.95	7.32	7.45	10.43	3.10	6.54
uncharacterized LOC103163947	LOC103163947	103163947	11.84	12.52	15.61	16.87	17.09	17.40	1031.45	1107.19	1382.44	1483.42	1499.70	1532.86
RBPJ-interacting and tubulin-associated protein 1-like	LOC103163948	103163948	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103163949	LOC103163949	103163949	2.58	2.63	2.60	2.12	1.83	1.65	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC103163950	103163950	0.06	0.07	0.28	0.35	0.08	0.00	0.76	1.83	1.24	4.64	1.03	0.93

60S ribosomal protein L36a-like	LOC103163951	103163951	0.00	0.00	0.00	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103163952	LOC103163952	103163952	9.41	9.64	8.79	9.41	10.05	9.94	357.74	365.10	337.85	365.06	393.29	396.30
uncharacterized LOC103163953	LOC103163953	103163953	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein Bop-like	LOC103163954	103163954	5.11	4.27	5.39	3.52	3.19	3.38	82.79	74.12	80.74	57.95	47.61	49.54
immunoglobulin iota chain-like	LOC103163955	103163955	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
immunoglobulin iota chain-like	LOC103163956	103163956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig lambda-2 chain V region-like	LOC103163957	103163957	0.00	0.00	0.00	0.00	0.00	0.00						
chromosome unknown open reading frame, human C22orf29	LOC103163958	103163958	7.48	6.34	5.18	5.71	4.81	6.05	85.07	75.03	75.77	61.42	52.78	51.41
guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 pseudogene	LOC103163959	103163959	4.77	3.44	2.72	2.91	3.36	3.82	104.06	75.95	65.83	62.58	77.62	87.86
proline-rich protein 23-like	LOC103163960	103163960	0.05	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized threonine-rich GPI-anchored glycoprotein PJ4664.02-like	LOC103163961	103163961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipid hydroperoxide glutathione peroxidase, nuclear pseudogene	LOC103163962	103163962	1.23	0.87	0.83	0.33	0.53	0.26	22.79	16.47	13.66	5.79	9.31	5.61
histone-lysine N-methyltransferase, H3 lysine-79 specific-like	LOC103163963	103163963	1.64	1.46	1.08	0.98	0.72	0.58	119.25	116.21	75.77	79.97	51.75	47.67
40S ribosomal protein S2 pseudogene	LOC103163965	103163965	0.68	0.60	0.29	0.39	0.30	0.27	16.71	14.64	9.94	11.59	9.31	14.02
uncharacterized LOC103163966	LOC103163966	103163966	108.36	93.19	82.20	75.86	52.60	68.73	611.43	506.01	458.33	438.07	261.85	396.30
uncharacterized LOC103163967	LOC103163967	103163967	0.58	0.30	0.69	0.53	0.92	0.42	9.87	7.32	11.18	10.43	15.52	8.41
uncharacterized LOC103163968	LOC103163968	103163968	0.11	0.06	0.13	0.04	0.19	0.30	5.32	3.66	8.69	9.27	12.42	14.02
uncharacterized LOC103163969	LOC103163969	103163969	0.88	0.96	1.15	0.93	1.35	0.97	4.56	4.58	3.73	11.59	6.21	9.35

uncharacterized LOC103163970	LOC103163970	103163970	0.06	0.07	0.37	0.09	0.31	0.28	22.03	21.96	17.39	12.75	18.63	9.35
uncharacterized LOC103163971	LOC103163971	103163971	0.18	0.30	0.35	0.11	0.34	0.22	8.35	9.15	9.94	5.79	11.38	7.48
uncharacterized LOC103163972	LOC103163972	103163972	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L31 pseudogene	LOC103163973	103163973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103163974	LOC103163974	103163974	25.65	24.34	13.14	17.16	21.71	20.00	1028.42	972.68	539.07	569.03	649.97	735.59
nucleophosmin-like	LOC103163975	103163975	162.55	161.98	141.54	137.15	150.13	130.33	1869.23	1808.11	1612.23	1449.81	1575.25	1425.37
protein FAM101B pseudogene	LOC103163976	103163976	0.00	0.18	0.00	0.12	0.10	0.00	0.00	1.83	0.00	1.16	1.03	0.00
60S ribosomal protein L35a pseudogene	LOC103163977	103163977	0.15	0.00	0.00	0.00	0.00	0.78	0.76	0.00	0.00	0.00	0.00	3.74
uncharacterized LOC103163978	LOC103163978	103163978	0.15	0.20	0.12	0.12	0.08	0.13	15.19	25.62	13.66	12.75	16.56	17.76
uncharacterized LOC103163979	LOC103163979	103163979	0.00	0.03	0.00	0.00	0.00	0.00	0.76	1.83	1.24	1.16	0.00	0.00
zinc finger protein 120 pseudogene	LOC103163980	103163980	0.53	0.47	0.41	0.44	0.00	0.00	17.47	13.73	17.39	11.59	0.00	0.00
uncharacterized LOC103163981	LOC103163981	103163981	2.73	2.89	2.87	2.55	3.71	3.47	258.24	272.68	275.74	241.06	348.79	335.55
uncharacterized LOC103163982	LOC103163982	103163982	1.90	2.14	1.37	2.46	1.73	2.66	16.71	24.71	24.84	26.66	35.19	42.06
SLC2A4 regulator-like	LOC103163983	103163983	0.17	0.42	0.89	0.00	0.50	0.69	0.76	0.00	2.48	0.00	0.00	0.93
uncharacterized LOC103163984	LOC103163984	103163984	0.84	0.00	0.00	0.00	0.41	0.38	8.35	4.58	6.21	5.79	3.10	4.67
uncharacterized LOC103163985	LOC103163985	103163985	1.87	0.00	2.46	1.74	0.00	2.71	4.56	2.75	6.21	4.64	3.10	6.54
uncharacterized LOC103163986	LOC103163986	103163986	0.23	0.56	0.13	0.37	0.54	0.39	12.91	19.22	11.18	12.75	16.56	10.28
myosin phosphatase Rho-interacting protein-like	LOC103163987	103163987	38.30	42.90	42.19	35.55	33.03	35.53	755.74	842.75	829.71	695.35	670.67	682.31

PRAME family member 20/21-like	LOC103163988	103163988	0.01	0.02	0.00	0.00	0.00	0.02	2.28	2.75	0.00	1.16	0.00	1.87
uncharacterized LOC103163989	LOC103163989	103163989	0.78	0.89	1.53	1.90	2.03	2.07	66.84	74.12	119.24	141.39	156.28	157.02
ubiquitin-60S ribosomal protein L40 pseudogene	LOC103163990	103163990	0.00	0.07	0.00	0.00	0.08	0.00	0.00	0.92	1.24	0.00	2.07	0.00
uncharacterized LOC103163991	LOC103163991	103163991	0.15	0.05	0.07	0.10	0.03	0.30	10.63	7.32	4.97	10.43	8.28	14.02
uncharacterized LOC103163992	LOC103163992	103163992	5.93	6.26	5.68	5.32	7.69	7.05	75.19	75.95	75.77	63.74	93.15	87.86
uncharacterized LOC103163993	LOC103163993	103163993	0.13	0.11	0.09	0.00	0.10	0.02	1.52	1.83	0.00	0.00	1.03	0.00
uncharacterized LOC103163994	LOC103163994	103163994	1.83	1.68	1.66	1.83	2.54	2.27	135.96	135.42	126.69	155.30	211.14	186.00
uncharacterized LOC103163995	LOC103163995	103163995	0.11	0.07	0.05	0.04	0.04	0.10	3.80	1.83	1.24	2.32	1.03	3.74
uncharacterized LOC103163996	LOC103163996	103163996	0.58	0.56	0.29	0.07	0.22	0.31	21.27	20.13	17.39	4.64	12.42	17.76
40S ribosomal protein S25 pseudogene	LOC103163997	103163997	0.21	0.48	0.28	0.27	0.21	0.38	8.35	13.73	11.18	5.79	9.31	7.48
squamous cell carcinoma antigen recognized by T-cells 3-like	LOC103163998	103163998	5.19	4.98	4.80	2.47	2.04	2.53	199.76	195.82	187.56	98.51	81.76	99.07
uncharacterized LOC103163999	LOC103163999	103163999	0.17	0.05	0.00	0.14	0.30	0.27	3.04	0.92	0.00	5.79	7.24	6.54
uncharacterized LOC103164000	LOC103164000	103164000	1.03	0.62	0.21	0.27	0.12	0.11	20.51	11.90	4.97	5.79	2.07	1.87
uncharacterized LOC103164001	LOC103164001	103164001	0.36	0.00	0.40	0.00	0.00	0.31	3.80	1.83	2.48	2.32	0.00	1.87
uncharacterized LOC103164002	LOC103164002	103164002	0.13	0.00	0.08	0.20	0.18	0.22	5.32	0.00	2.48	5.79	7.24	10.28
sperm motility kinase 2B-like	LOC103164003	103164003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
high mobility group protein B1 pseudogene	LOC103164004	103164004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L23a pseudogene	LOC103164005	103164005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

extensin-like	LOC103164006	103164006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M-phase-specific PLK1-interacting protein pseudogene	LOC103164007	103164007	22.52	23.76	22.34	22.64	24.49	24.09	0.76	0.92	0.00	0.00	0.00	0.93
retinitis pigmentosa 9 protein-like	LOC103164008	103164008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium/hydrogen exchanger 9B1-like	LOC103164009	103164009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164010	LOC103164010	103164010	0.12	0.07	0.00	0.00	0.00	0.00	5.32	7.32	0.00	2.32	2.07	0.00
uncharacterized LOC103164011	LOC103164011	103164011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 92-like	LOC103164012	103164012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164013	LOC103164013	103164013	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	1.24	0.00	2.07	0.00
uncharacterized LOC103164014	LOC103164014	103164014	2.76	1.67	0.78	0.76	0.44	0.40	19.75	8.24	3.73	4.64	2.07	1.87
uncharacterized LOC103164015	LOC103164015	103164015	5.95	4.68	1.26	1.52	0.93	1.21	108.61	105.23	33.54	26.66	26.91	30.84
uncharacterized LOC103164016	LOC103164016	103164016	6.46	6.30	6.16	6.12	4.64	4.83	104.82	97.91	110.55	99.67	65.20	55.15
C-type lectin domain family 4 member F-like	LOC103164017	103164017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164018	LOC103164018	103164018	2.44	2.81	0.69	1.66	1.53	1.42	89.63	92.42	26.08	48.67	47.61	46.73
transforming acidic coiled-coil-containing protein 3-like	LOC103164019	103164019	1.65	1.90	2.61	2.50	2.64	2.30	22.03	22.88	26.08	28.97	27.94	23.37
uncharacterized LOC103164020	LOC103164020	103164020	0.69	0.61	0.79	0.73	0.59	0.53	6.84	6.41	7.45	4.64	9.31	6.54
ATP synthase F(0) complex subunit C1, mitochondrial pseudogene	LOC103164021	103164021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164022	LOC103164022	103164022	2.93	2.94	3.84	4.75	5.76	5.15	94.94	114.38	150.29	176.16	213.21	193.48
chromobox protein homolog 8-like	LOC103164023	103164023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DEP domain-containing mTOR-interacting protein-like	LOC103164024	103164024	0.67	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
oxysterol-binding protein-related protein 1-like	LOC103164025	103164025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164026	LOC103164026	103164026	0.07	0.02	0.00	0.19	0.00	0.04	4.56	0.00	6.21	5.79	19.66	14.02
uncharacterized LOC103164027	LOC103164027	103164027	186.23	177.80	171.62	159.91	189.01	176.11	2522.43	2425.75	2328.91	2175.29	2551.24	2347.89
polycomb group RING finger protein 6 pseudogene	LOC103164028	103164028	0.04	0.00	0.00	0.00	0.06	0.00	0.76	0.00	0.00	1.16	2.07	0.00
uncharacterized LOC103164029	LOC103164029	103164029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164030	LOC103164030	103164030	0.26	0.24	0.08	0.02	0.06	0.02	13.67	10.98	6.21	6.95	6.21	7.48
40S ribosomal protein S26-like	LOC103164031	103164031	0.19	0.00	0.00	0.30	0.00	0.12	2.28	2.75	3.73	4.64	2.07	2.80
zinc finger and SCAN domain-containing protein 10-like	LOC103164032	103164032	0.05	0.00	0.00	0.04	0.04	0.00	1.52	0.00	1.24	3.48	1.03	1.87
uncharacterized LOC103164033	LOC103164033	103164033	15.50	16.84	13.83	15.46	17.06	15.63	3.80	2.75	3.73	0.00	2.07	0.00
uncharacterized LOC103164034	LOC103164034	103164034	2.56	3.05	2.35	3.37	3.05	3.53	169.38	169.28	147.81	194.70	191.47	230.86
heterogeneous nuclear ribonucleoprotein A1-like	LOC103164035	103164035	0.16	0.15	0.00	0.00	0.00	0.00	10.63	17.39	0.00	0.00	0.00	0.00
uncharacterized LOC103164036	LOC103164036	103164036	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164037	LOC103164037	103164037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative uncharacterized protein DDB_G0291690	LOC103164038	103164038	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164039	LOC103164039	103164039	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
uncharacterized LOC103164040	LOC103164040	103164040	12.74	15.41	7.14	5.01	9.01	4.49	237.74	317.52	158.99	143.71	145.93	86.92
zinc finger protein 791-like	LOC103164041	103164041	0.00	0.02	0.00	0.03	0.00	0.02	0.00	0.92	0.00	2.32	0.00	1.87

40S ribosomal protein S15 pseudogene	LOC103164043	103164043	0.33	0.35	0.26	0.35	0.42	0.43	31.14	33.86	24.84	31.29	38.29	40.19
60S ribosomal protein L31 pseudogene	LOC103164044	103164044	0.07	0.56	0.00	0.23	0.50	0.12	0.00	4.58	0.00	2.32	4.14	1.87
uncharacterized LOC103164045	LOC103164045	103164045	14.13	17.50	17.61	17.96	21.47	17.49	237.74	277.26	273.26	268.87	321.88	270.12
uncharacterized LOC103164046	LOC103164046	103164046	4.24	4.44	3.51	3.82	4.38	3.83	306.09	348.63	337.85	305.95	356.04	309.38
uncharacterized LOC103164047	LOC103164047	103164047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164048	LOC103164048	103164048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SET-binding protein-like	LOC103164049	103164049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164050	LOC103164050	103164050	30.59	27.79	33.10	16.95	9.77	9.75	169.38	151.90	158.99	62.58	26.91	43.93
60S ribosomal protein L32 pseudogene	LOC103164051	103164051	0.11	0.00	0.12	0.00	0.00	0.05	3.04	2.75	2.48	1.16	1.03	4.67
uncharacterized LOC103164053	LOC103164053	103164053	2.47	3.75	3.20	4.93	3.15	5.57	32.66	42.09	36.02	44.04	26.91	30.84
uncharacterized LOC103164054	LOC103164054	103164054	0.82	0.33	0.00	0.00	0.00	0.00	3.80	2.75	0.00	0.00	0.00	0.00
protocadherin-15-like	LOC103164055	103164055	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial pseudogene	LOC103164056	103164056	0.32	0.16	0.39	0.11	0.18	0.19	5.32	0.92	4.97	0.00	1.03	4.67
Krueppel-like factor 16	LOC103164058	103164058	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	2.48	0.00	0.00	2.80
uncharacterized LOC103164059	LOC103164059	103164059	10.35	10.18	9.87	6.60	6.11	8.50	26.58	26.54	29.81	11.59	6.21	16.82
long-chain-fatty-acid--CoA ligase 4 pseudogene	LOC103164060	103164060	0.30	0.26	0.26	0.26	0.19	0.23	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized LOC103164061	LOC103164061	103164061	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2-like	LOC103164062	103164062	4.03	3.89	4.32	2.90	2.89	2.33	231.66	217.78	239.72	245.69	251.50	210.30

nuclear receptor subfamily 5 group A member 2-like	LOC103164063	103164063	0.26	0.52	0.54	0.41	0.59	0.25	32.66	43.92	45.96	50.99	37.26	46.73
60S ribosomal protein L17-like	LOC103164064	103164064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
60S ribosomal protein L35a pseudogene	LOC103164065	103164065	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164066	LOC103164066	103164066	17.10	19.18	7.21	8.73	10.33	9.00	211.91	216.86	85.70	85.76	116.95	104.68
CCR4-NOT transcription complex subunit 6-like	LOC103164067	103164067	9.78	8.06	9.02	11.25	10.96	9.75	101.02	98.82	99.37	125.16	135.58	106.55
exportin-6 pseudogene	LOC103164069	103164069	0.52	0.67	0.43	0.29	0.23	0.41	12.15	18.30	11.18	6.95	6.21	8.41
olfactory receptor 4C6-like	LOC103164070	103164070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164071	LOC103164071	103164071	1.72	1.88	1.38	2.18	2.21	1.50	161.02	155.56	167.68	143.71	119.02	126.18
uncharacterized LOC103164073	LOC103164073	103164073	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164074	LOC103164074	103164074	1.13	1.29	0.44	0.12	0.00	0.02	46.33	52.16	18.63	4.64	0.00	0.93
uncharacterized LOC103164075	LOC103164075	103164075	0.06	0.01	0.03	0.09	0.09	0.09	9.87	9.15	3.73	10.43	13.45	20.56
60S ribosomal protein L36-like	LOC103164076	103164076	0.67	0.20	0.14	0.40	0.47	0.54	11.39	10.98	8.69	4.64	14.49	13.09
uncharacterized LOC103164077	LOC103164077	103164077	2.49	1.52	1.08	1.11	0.91	2.17	22.79	11.90	11.18	15.07	10.35	15.89
uncharacterized LOC103164078	LOC103164078	103164078	1.44	1.57	1.75	1.37	1.61	1.39	24.31	27.45	31.05	27.81	30.01	25.24
zinc finger protein 195-like	LOC103164081	103164081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164083	LOC103164083	103164083	0.98	0.75	0.77	0.81	0.79	0.45	15.95	12.81	11.18	13.91	15.52	8.41
uncharacterized LOC103164084	LOC103164084	103164084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAM-binding protein pseudogene	LOC103164085	103164085	2.84	2.95	4.04	4.37	5.22	5.16	454.20	474.90	655.82	715.05	819.71	836.53

uncharacterized LOC103164086	LOC103164086	103164086	4.11	3.83	2.67	2.89	0.90	1.66	45.57	50.33	23.60	23.18	18.63	12.15
uncharacterized LOC103164087	LOC103164087	103164087	0.56	0.00	0.37	0.36	0.47	0.14	6.08	0.00	2.48	3.48	3.10	1.87
zinc finger protein 58-like	LOC103164088	103164088	0.91	1.03	0.89	1.25	1.48	1.37	47.09	53.07	45.96	66.06	75.55	71.97
uncharacterized LOC103164089	LOC103164089	103164089	2.36	3.10	2.57	2.79	2.50	2.92	177.73	207.71	204.94	199.33	186.30	208.43
zinc finger protein 708-like	LOC103164090	103164090	2.82	2.55	3.15	2.90	3.94	3.60	254.45	222.35	283.20	280.46	350.86	327.13
RNA polymerase II elongation factor ELL2 pseudogene	LOC103164091	103164091	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC103164092	103164092	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103164093	LOC103164093	103164093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164094	LOC103164094	103164094	12.15	12.12	14.17	16.88	13.23	12.01	31.90	22.88	39.75	25.50	18.63	19.63
vacuolar protein sorting-associated protein 52 homolog	LOC103164096	103164096	6.33	6.10	3.89	1.62	1.99	1.88	34.94	37.52	22.36	8.11	9.31	8.41
vomeronasal type-2 receptor 116-like	LOC103164097	103164097	0.10	0.16	0.25	0.16	0.11	0.16	4.56	4.58	9.94	6.95	6.21	5.61
uncharacterized LOC103164098	LOC103164098	103164098	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
breakpoint cluster region protein-like	LOC103164099	103164099	2.10	1.97	2.39	0.91	0.78	0.62	90.39	91.50	108.06	42.88	37.26	40.19
uncharacterized LOC103164100	LOC103164100	103164100	2.60	2.10	1.97	1.70	1.84	1.55	22.03	22.88	16.15	13.91	16.56	15.89
T-cell receptor alpha chain V region HPB-MLT-like	LOC103164101	103164101	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region HPB-MLT-like	LOC103164102	103164102	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region J606-like	LOC103164103	103164103	0.00	0.00	0.00	0.00	0.00	0.00						
60S ribosomal protein L27a pseudogene	LOC103164104	103164104	0.36	0.42	0.42	0.20	0.33	0.16	13.67	21.05	18.63	8.11	15.52	7.48

uncharacterized LOC103164105	LOC103164105	103164105	0.00	0.30	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103164106	LOC103164106	103164106	0.09	0.13	0.06	0.08	0.17	0.15	9.87	10.98	8.69	13.91	16.56	13.09
60S ribosomal protein L21 pseudogene	LOC103164107	103164107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164108	LOC103164108	103164108	0.00	0.00	0.00	0.01	0.01	0.00	2.28	1.83	0.00	3.48	6.21	2.80
uncharacterized LOC103164109	LOC103164109	103164109	1.51	1.81	1.50	1.41	2.00	1.69	82.03	94.25	88.19	106.62	114.88	110.29
alpha-protein kinase 2-like	LOC103164110	103164110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164111	LOC103164111	103164111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cytochrome c-like	LOC103164112	103164112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
uncharacterized protein FLJ40925-like	LOC103164113	103164113	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uncharacterized LOC103164114	LOC103164114	103164114	0.19	0.06	0.00	0.07	0.20	0.12	3.04	2.75	3.73	1.16	5.17	4.67
uncharacterized LOC103164115	LOC103164115	103164115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103164116	LOC103164116	103164116	18.85	20.38	23.33	21.37	26.47	22.28	237.74	231.50	274.50	244.53	310.50	283.20
uncharacterized LOC103164117	LOC103164117	103164117	0.19	0.08	0.21	0.03	0.26	0.18	11.39	8.24	9.94	6.95	15.52	12.15
coiled-coil domain-containing protein 121-like	LOC103164118	103164118	0.10	0.12	0.13	0.14	0.13	0.21	10.63	11.90	14.91	15.07	14.49	22.43
uncharacterized LOC103164119	LOC103164119	103164119	0.00	0.00	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
uncharacterized LOC103164120	LOC103164120	103164120	1.54	1.75	0.80	1.09	1.22	1.11	20.51	31.11	16.15	20.86	20.70	26.17
60S ribosomal protein L17 pseudogene	LOC103164121	103164121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
uncharacterized LOC103164122	LOC103164122	103164122	0.11	0.14	0.09	0.05	0.16	0.17	24.31	26.54	16.15	15.07	23.80	30.84

alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1-like	LOC103164123	103164123	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
acyl-CoA-binding protein pseudogene	LOC103164124	103164124	0.23	0.30	0.12	0.29	0.16	0.02	11.39	11.90	4.97	12.75	7.24	3.74
uncharacterized LOC103164125	LOC103164125	103164125	0.69	0.67	1.21	0.43	0.45	0.69	20.51	15.56	22.36	9.27	14.49	14.02
60S ribosomal protein L30-like	LOC103164126	103164126	11.30	9.34	11.19	11.68	8.82	11.07	221.79	183.01	221.09	229.47	170.77	214.04
sperm-associated antigen 1-like	LOC103164127	103164127	0.00	0.11	0.00	0.00	0.00	0.00	1.52	3.66	0.00	0.00	0.00	0.00
T-cell receptor beta chain V region A20.2.25-like	LOC103164128	103164128	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region A20.2.25-like	LOC103164129	103164129	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region PHDS203-like	LOC103164130	103164130	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region PHDS203-like	LOC103164131	103164131	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region C5-like	LOC103164132	103164132	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region C5-like	LOC103164133	103164133	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region C5-like	LOC103164134	103164134	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region CTL-F3-like	LOC103164135	103164135	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region 3H.25-like	LOC103164136	103164136	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region 3H.25-like	LOC103164137	103164137	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor beta chain V region YT35-like	LOC103164138	103164138	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164139	LOC103164139	103164139	0.78	0.82	0.00	0.00	0.00	0.00	52.41	59.48	2.48	0.00	1.03	0.00
uncharacterized LOC103164140	LOC103164140	103164140	0.17	0.20	0.36	0.26	0.54	0.56	5.32	5.49	6.21	10.43	10.35	16.82

zinc finger protein 345-like	LOC103164141	103164141	2.06	2.27	2.00	2.57	2.83	2.19	60.76	59.48	59.62	62.58	93.15	64.49
uncharacterized LOC103164142	LOC103164142	103164142	4.57	3.21	2.14	1.17	0.88	1.91	101.02	80.52	39.75	37.09	25.87	57.01
uncharacterized LOC103164143	LOC103164143	103164143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
aldehyde oxidase 1-like	LOC103164144	103164144	0.34	0.33	0.35	0.45	0.10	0.71	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164145	LOC103164145	103164145	0.85	0.80	0.83	0.78	0.64	0.88	48.61	48.50	48.44	46.36	36.22	55.15
rho guanine nucleotide exchange factor 28-like	LOC103164146	103164146	14.61	11.73	22.13	22.00	25.04	23.14	395.72	355.03	612.35	609.59	722.42	634.64
uncharacterized LOC103164147	LOC103164147	103164147	1.79	1.08	0.00	1.81	1.37	0.00	4.56	2.75	2.48	6.95	5.17	6.54
uncharacterized LOC103164148	LOC103164148	103164148	2.31	1.78	1.43	2.87	2.41	3.67	21.27	18.30	31.05	30.13	23.80	24.30
epsin-1-like	LOC103164149	103164149	2.32	1.55	1.31	0.77	0.25	0.69	34.18	23.79	24.84	6.95	6.21	9.35
uncharacterized LOC103164150	LOC103164150	103164150	0.12	0.23	0.26	0.22	0.22	0.11	9.87	15.56	17.39	19.70	19.66	17.76
uncharacterized LOC103164151	LOC103164151	103164151	5.86	5.32	5.70	6.26	6.37	6.76	730.68	668.89	714.20	776.48	776.24	833.73
uncharacterized LOC103164152	LOC103164152	103164152	0.49	0.78	0.07	0.20	0.40	0.31	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164153	LOC103164153	103164153	2.82	2.93	1.11	1.20	1.47	1.28	1193.24	1239.87	473.24	515.72	620.99	553.32
uncharacterized LOC103164154	LOC103164154	103164154	32.63	44.05	17.06	29.04	40.94	26.19	72.92	79.61	21.12	22.02	23.80	28.97
igE-binding protein-like	LOC103164155	103164155	135.99	158.66	162.58	170.92	160.32	165.07	2108.48	2398.30	2643.16	2656.24	2309.05	2385.28
protein diaphanous homolog 2-like	LOC103164156	103164156	3.59	3.29	4.17	3.99	5.55	3.77	50.89	37.52	52.17	56.79	55.89	50.47
spermine synthase pseudogene	LOC103164157	103164157	0.54	0.88	0.43	0.50	0.79	0.77	56.97	77.78	42.23	57.95	78.66	75.71
60S ribosomal protein L7a pseudogene	LOC103164158	103164158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

developmental pluripotency-associated protein 3-like	LOC103164159	103164159	0.04	0.05	0.07	0.13	0.06	0.10	1.52	2.75	1.24	5.79	3.10	3.74
uncharacterized LOC103164160	LOC103164160	103164160	0.02	0.02	0.03	0.00	0.03	0.05	1.52	2.75	2.48	2.32	1.03	2.80
high mobility group protein B1 pseudogene	LOC103164161	103164161	0.00	0.06	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.93
sarcoplasmic reticulum histidine-rich calcium-binding protein-like	LOC103164162	103164162	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
protein Shroom2-like	LOC103164163	103164163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164164	LOC103164164	103164164	0.33	0.69	0.14	0.52	0.34	0.63	32.66	14.64	33.54	15.07	46.57	41.13
uncharacterized LOC103164165	LOC103164165	103164165	0.10	0.12	0.08	0.00	0.13	0.06	1.52	2.75	2.48	0.00	3.10	0.93
peptidyl-prolyl cis-trans isomerase A-like	LOC103164166	103164166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164167	LOC103164167	103164167	9.78	8.03	10.32	9.34	7.18	7.80	131.40	107.97	137.87	119.37	94.18	103.75
alpha-enolase-like	LOC103164168	103164168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
alpha-enolase pseudogene	LOC103164169	103164169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164170	LOC103164170	103164170	0.39	0.60	0.57	0.59	0.48	0.77	36.46	41.18	42.23	38.24	35.19	52.34
uncharacterized LOC103164171	LOC103164171	103164171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164172	LOC103164172	103164172	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
golgin subfamily A member 4-like	LOC103164173	103164173	7.40	7.78	8.46	9.89	11.30	9.89	230.90	226.01	248.42	301.32	330.16	283.20
uncharacterized LOC103164174	LOC103164174	103164174	1.25	1.31	1.17	1.64	1.39	1.51	151.15	146.41	132.90	207.45	162.49	177.59
zinc finger protein 28 homolog	LOC103164175	103164175	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
heterogeneous nuclear ribonucleoproteins C1/C2-like	LOC103164176	103164176	0.72	0.87	1.19	1.36	1.10	0.54	11.39	12.81	19.87	18.54	18.63	13.09

uncharacterized LOC103164178	LOC103164178	103164178	6.90	10.30	9.14	9.45	7.47	9.38	43.29	49.41	60.86	56.79	51.75	50.47
uncharacterized LOC103164179	LOC103164179	103164179	1.29	1.04	0.71	0.80	1.40	1.45	20.51	17.39	9.94	10.43	20.70	17.76
rab11 family-interacting protein 5-like	LOC103164180	103164180	0.58	0.31	0.43	0.00	0.00	0.00	9.87	5.49	9.94	2.32	1.03	0.93
probable N-acetyltransferase CML1	LOC103164181	103164181	2.61	2.51	1.69	2.56	1.75	3.27	21.27	17.39	14.91	17.38	16.56	23.37
protocadherin gamma-A10-like	LOC103164182	103164182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164183	LOC103164183	103164183	0.00	0.00	0.06	0.00	0.05	0.00	1.52	3.66	3.73	6.95	9.31	2.80
40S ribosomal protein S8 pseudogene	LOC103164184	103164184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164185	LOC103164185	103164185	4.91	5.52	4.06	4.71	5.66	5.28	383.57	410.85	315.49	369.70	432.62	408.45
uncharacterized LOC103164186	LOC103164186	103164186	0.05	0.04	0.04	0.03	0.02	0.04	6.08	5.49	1.24	2.32	3.10	1.87
GPI mannosyltransferase 2-like	LOC103164187	103164187	3.70	3.70	3.52	3.73	4.92	4.81	0.00	0.00	0.00	0.00	0.00	0.00
inactive tyrosine-protein kinase 7-like	LOC103164188	103164188	0.12	0.11	0.05	0.23	0.00	0.08	3.80	3.66	2.48	4.64	1.03	1.87
zinc finger protein 227-like	LOC103164189	103164189	1.45	1.79	0.96	2.02	1.10	1.67	72.16	55.82	55.89	77.65	62.10	93.47
carcinoembryonic antigen-related cell adhesion molecule 1-like	LOC103164190	103164190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164191	LOC103164191	103164191	8.43	8.11	13.41	12.69	14.58	11.50	0.76	0.92	3.73	1.16	4.14	1.87
uncharacterized LOC103164192	LOC103164192	103164192	0.01	0.01	0.00	0.00	0.00	0.02	0.00	0.92	1.24	0.00	0.00	1.87
protein SGT1 homolog pseudogene	LOC103164193	103164193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164194	LOC103164194	103164194	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform pseudogene	LOC103164195	103164195	31.94	31.29	29.84	31.11	33.31	30.75	517.25	467.58	428.52	476.32	508.18	490.70

uncharacterized LOC103164196	LOC103164196	103164196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear receptor corepressor 1-like	LOC103164198	103164198	8.26	9.45	7.58	9.78	8.51	8.02	196.72	231.50	186.31	231.78	203.89	183.20
olfactory receptor 1361-like	LOC103164199	103164199	0.03	0.00	0.00	0.00	0.05	0.00	0.76	0.00	0.00	0.00	1.03	0.00
uncharacterized LOC103164200	LOC103164200	103164200	0.28	0.27	0.09	0.09	0.08	0.07	20.51	19.22	14.91	17.38	13.45	11.22
uncharacterized LOC103164201	LOC103164201	103164201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00
vegetative cell wall protein gp1-like	LOC103164202	103164202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164203	LOC103164203	103164203	0.09	0.21	0.00	0.14	0.00	0.11	3.04	3.66	1.24	2.32	1.03	5.61
U3 small nucleolar RNA-associated protein 15 homolog	LOC103164204	103164204	13.54	12.96	14.05	11.84	12.08	11.56	72.16	52.16	62.10	25.50	23.80	21.50
uncharacterized protein CXorf49 homolog	LOC103164205	103164205	0.00	0.03	0.00	0.00	0.03	0.03	0.00	0.92	0.00	0.00	1.03	0.93
smith-Magenis syndrome chromosomal region candidate gene 8 protein homolog	LOC103164206	103164206	4.51	4.16	4.11	3.41	2.82	3.51	141.27	143.66	132.90	108.94	110.74	130.85
uncharacterized LOC103164207	LOC103164207	103164207	1.32	1.31	1.46	1.91	2.59	1.83	173.17	169.28	172.65	229.47	307.39	237.41
cruciferin CRU1-like	LOC103164208	103164208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin-19-like	LOC103164209	103164209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L22-like	LOC103164210	103164210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative protein TPRXL	LOC103164211	103164211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164212	LOC103164212	103164212	0.24	0.43	0.20	0.22	0.40	0.24	10.63	16.47	9.94	10.43	21.73	14.95
developmental pluripotency-associated protein 2 pseudogene	LOC103164215	103164215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164216	LOC103164216	103164216	0.14	0.00	0.00	0.00	0.00	0.18	1.52	2.75	2.48	0.00	3.10	1.87

uncharacterized protein K02A2.6-like	LOC103164217	103164217	10.14	10.30	16.64	19.10	27.22	24.17	155.71	150.07	254.63	294.37	425.38	371.06
non-histone chromosomal protein HMG-17 pseudogene	LOC103164218	103164218	2.00	2.25	1.23	1.82	2.35	2.38	26.58	22.88	17.39	19.70	26.91	28.04
uncharacterized LOC103164219	LOC103164219	103164219	4.08	4.05	3.42	3.68	3.80	4.07	574.21	570.98	485.66	521.51	526.81	572.95
uncharacterized LOC103164220	LOC103164220	103164220	0.08	0.15	0.17	0.08	0.18	0.25	9.11	7.32	6.21	2.32	6.21	15.89
uncharacterized LOC103164221	LOC103164221	103164221	2.11	2.57	2.66	2.74	3.29	3.23	139.00	163.79	175.13	175.00	216.31	218.71
ATP-binding cassette sub-family A member 12-like	LOC103164223	103164223	0.03	0.07	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
ubiquitin-40S ribosomal protein S27a pseudogene	LOC103164224	103164224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164225	LOC103164225	103164225	17.13	12.84	17.37	12.65	6.95	9.33	82.03	68.63	79.49	56.79	33.12	42.99
smoothelin-like	LOC103164226	103164226	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164227	LOC103164227	103164227	5.73	4.00	5.08	5.69	5.09	6.38	137.48	124.44	120.48	122.85	149.04	164.50
zinc finger protein 431-like	LOC103164229	103164229	0.32	0.22	0.17	0.33	0.29	0.40	5.32	5.49	3.73	4.64	6.21	5.61
60S ribosomal protein L27 pseudogene	LOC103164230	103164230	0.67	0.55	0.31	0.26	0.46	0.22	34.18	31.11	16.15	15.07	23.80	12.15
band 4.1-like protein 3	LOC103164231	103164231	0.22	0.15	0.16	0.11	0.12	0.14	15.95	10.07	9.94	9.27	7.24	10.28
uncharacterized LOC103164232	LOC103164232	103164232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATP synthase subunit g, mitochondrial pseudogene	LOC103164233	103164233	2.34	2.25	3.33	2.95	3.66	3.84	105.58	95.16	131.66	135.59	152.14	162.63
potassium voltage-gated channel subfamily B member 2-like	LOC103164234	103164234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 11-like	LOC103164235	103164235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein ZFP69-like	LOC103164236	103164236	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93

uncharacterized LOC103164237	LOC103164237	103164237	10.10	9.20	11.72	12.98	18.17	16.41	163.30	157.39	201.22	210.92	290.83	273.86
putative zinc finger protein ENSP00000383832	LOC103164238	103164238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164239	LOC103164239	103164239	0.49	0.55	0.02	0.00	0.00	0.02	25.06	36.60	1.24	0.00	0.00	0.00
uncharacterized LOC103164240	LOC103164240	103164240	0.52	0.55	0.53	0.63	0.66	0.64	23.55	25.62	24.84	35.93	32.08	31.78
A-kinase anchor protein 9-like	LOC103164241	103164241	2.06	1.79	1.37	1.51	2.27	1.98	50.89	48.50	34.78	34.77	58.99	44.86
basic salivary proline-rich protein 4-like	LOC103164242	103164242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164243	LOC103164243	103164243	1.14	1.33	1.76	1.93	2.52	2.62	113.17	120.78	161.47	213.24	249.43	269.18
uncharacterized LOC103164244	LOC103164244	103164244	0.26	0.25	0.23	0.32	0.19	0.20	9.11	10.07	9.94	11.59	12.42	9.35
suppressor of cytokine signaling 5-like	LOC103164245	103164245	0.04	0.02	0.03	0.06	0.00	0.00	1.52	1.83	1.24	3.48	0.00	0.00
uncharacterized LOC103164246	LOC103164246	103164246	0.80	0.90	1.10	1.67	1.28	1.62	62.28	66.80	79.49	112.42	96.25	118.70
uncharacterized LOC103164247	LOC103164247	103164247	1.08	0.92	1.11	0.88	1.33	0.83	84.31	86.01	63.35	77.65	92.11	71.03
short transient receptor potential channel 2	LOC103164248	103164248	0.28	0.28	0.31	0.53	0.38	0.53	25.82	22.88	31.05	42.88	28.98	36.45
protein SET-like	LOC103164249	103164249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164250	LOC103164250	103164250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin-12-like	LOC103164251	103164251	0.00	0.06	0.00	0.25	0.00	0.00	0.00	0.92	0.00	4.64	0.00	0.00
uncharacterized LOC103164252	LOC103164252	103164252	0.50	0.46	0.30	0.21	0.24	0.15	25.06	24.71	21.12	11.59	11.38	6.54
vegetative cell wall protein gp1-like	LOC103164253	103164253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164254	LOC103164254	103164254	1.67	2.14	2.38	1.92	2.20	2.91	78.23	81.44	93.16	79.97	86.94	90.66

uncharacterized LOC103164255	LOC103164255	103164255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164256	LOC103164256	103164256	0.09	0.43	0.15	0.14	0.38	0.00	47.85	46.67	116.76	59.10	79.69	57.95
uncharacterized LOC103164257	LOC103164257	103164257	0.83	0.91	0.97	0.55	0.54	0.37	46.33	60.39	48.44	40.56	35.19	26.17
uncharacterized LOC103164258	LOC103164258	103164258	0.33	0.00	0.00	0.00	0.00	0.00	3.80	3.66	1.24	1.16	1.03	0.00
odorant-binding protein-like	LOC103164259	103164259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164260	LOC103164260	103164260	0.19	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164261	LOC103164261	103164261	0.18	0.31	0.42	0.56	1.21	0.72	6.84	11.90	22.36	37.09	48.64	42.06
coiled-coil domain-containing protein 91-like	LOC103164262	103164262	6.54	7.33	8.04	8.33	7.61	6.47	178.49	191.24	201.22	208.61	194.58	170.11
kallikrein 1-related peptidase b5-like	LOC103164263	103164263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 5-5-like	LOC103164265	103164265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 5-5-like	LOC103164266	103164266	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164267	LOC103164267	103164267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164268	LOC103164268	103164268	5.32	4.89	4.61	6.22	7.63	7.66	503.57	481.31	465.78	618.86	724.49	752.41
uncharacterized LOC103164269	LOC103164269	103164269	4.39	4.56	5.69	6.10	7.13	7.48	265.84	265.36	363.93	374.33	411.92	447.71
uncharacterized LOC103164270	LOC103164270	103164270	5.09	3.82	4.46	5.95	4.37	4.77	34.18	27.45	38.50	26.66	27.94	38.32
small nuclear ribonucleoprotein F-like	LOC103164271	103164271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164272	LOC103164272	103164272	2.33	2.54	2.34	2.28	2.14	1.36	37.98	35.69	44.72	39.40	39.33	44.86
uncharacterized LOC103164273	LOC103164273	103164273	5.63	5.36	4.04	2.77	1.18	1.42	15.95	22.88	17.39	22.02	21.73	26.17

uncharacterized LOC103164274	LOC103164274	103164274	5.02	4.65	3.43	4.33	5.48	5.25	1101.33	999.22	748.98	932.93	1187.13	1151.51
N-acetylglucosaminyl-phosphatidylinositol biosynthetic protein pseudogene	LOC103164275	103164275	0.45	0.49	0.42	0.47	0.41	0.57	51.65	53.99	45.96	50.99	42.43	65.43
N-acetylglucosaminyl-phosphatidylinositol biosynthetic protein pseudogene	LOC103164276	103164276	0.10	0.09	0.09	0.11	0.09	0.11	2.28	0.92	1.24	1.16	2.07	0.93
taste receptor type 2 member 8-like	LOC103164278	103164278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L7a pseudogene	LOC103164279	103164279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A-like	LOC103164280	103164280	5.27	12.06	15.87	18.97	13.39	14.57	22.03	42.09	49.68	46.36	38.29	33.65
uncharacterized LOC103164281	LOC103164281	103164281	3.18	7.25	0.94	6.54	2.10	1.88	36.46	55.82	42.23	33.61	35.19	28.04
uncharacterized LOC103164282	LOC103164282	103164282	0.48	0.38	0.20	0.30	0.00	0.00	16.71	14.64	13.66	12.75	0.00	0.00
uncharacterized LOC103164283	LOC103164283	103164283	48.97	84.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164284	LOC103164284	103164284	0.47	0.56	0.53	0.50	0.60	0.63	25.82	37.52	36.02	27.81	32.08	30.84
GRB2-associated-binding protein 2 pseudogene	LOC103164285	103164285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig lambda chain V-IV region Hil-like	LOC103164286	103164286	0.00	0.00	0.00	0.00	0.00	0.00						
2'-5'-oligoadenylate synthase 2-like	LOC103164287	103164287	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164288	LOC103164288	103164288	0.00	0.12	0.00	0.00	0.00	0.00	0.00	3.66	1.24	1.16	1.03	0.93
uncharacterized LOC103164289	LOC103164289	103164289	3.88	4.03	4.14	3.53	4.30	3.80	161.02	177.52	170.17	149.50	171.81	160.76
uncharacterized LOC103164290	LOC103164290	103164290	2.47	3.48	2.36	4.36	3.40	2.25	10.63	15.56	18.63	18.54	14.49	16.82
chromobox protein homolog 3 pseudogene	LOC103164291	103164291	5.08	5.73	8.02	6.40	5.81	6.96	63.04	66.80	94.40	69.54	73.48	72.90
uncharacterized LOC103164292	LOC103164292	103164292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

40S ribosomal protein S11-like	LOC103164293	103164293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164294	LOC103164294	103164294	3.42	3.39	3.22	3.50	4.10	3.55	59.24	55.82	62.10	55.63	76.59	74.77
hypothetical protein	LOC103164295	103164295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte-associated immunoglobulin-like receptor 2	LOC103164297	103164297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte-associated immunoglobulin-like receptor 1	LOC103164298	103164298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukocyte immunoglobulin-like receptor subfamily A member 5	LOC103164299	103164299	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164300	LOC103164300	103164300	0.02	0.03	0.11	0.07	0.12	0.19	1.52	0.92	4.97	2.32	4.14	7.48
T-cell receptor alpha chain V region PHDS58-like	LOC103164301	103164301	0.00	0.00	0.00	0.00	0.00	0.00						
T-cell receptor alpha chain V region PHDS58-like	LOC103164302	103164302	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164303	LOC103164303	103164303	0.93	0.67	0.29	0.19	0.36	0.40	72.92	53.99	29.81	28.97	37.26	38.32
uncharacterized LOC103164304	LOC103164304	103164304	1.12	1.53	1.33	0.75	0.53	0.55	37.98	47.58	53.41	34.77	31.05	35.52
uncharacterized LOC103164305	LOC103164305	103164305	1.08	1.08	0.66	0.92	1.12	0.97	106.34	97.91	63.35	66.06	90.04	82.25
protocadherin alpha-11-like	LOC103164306	103164306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-6 pseudogene	LOC103164307	103164307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
protocadherin alpha-10-like	LOC103164308	103164308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin alpha-4-like	LOC103164309	103164309	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164310	LOC103164310	103164310	0.45	0.35	0.36	0.30	0.57	0.08	13.67	10.98	14.91	10.43	18.63	6.54
uncharacterized LOC103164311	LOC103164311	103164311	3.50	4.22	4.01	3.29	2.98	2.72	135.20	169.28	158.99	115.89	105.57	111.23

uncharacterized LOC103164312	LOC103164312	103164312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selection and upkeep of intraepithelial T-cells protein 7-like	LOC103164313	103164313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein SA pseudogene	LOC103164314	103164314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
translocon-associated protein subunit alpha-like	LOC103164315	103164315	0.04	0.30	0.00	0.00	0.06	0.00	0.76	5.49	0.00	1.16	1.03	0.00
uncharacterized LOC103164317	LOC103164317	103164317	2.06	1.73	2.41	2.77	3.07	2.62	89.63	83.27	122.97	124.00	129.37	110.29
neurofilament heavy polypeptide-like	LOC103164318	103164318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
putative protein TPRXL	LOC103164319	103164319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164320	LOC103164320	103164320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
extensin-2-like	LOC103164321	103164321	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	3.73	2.32	1.03	3.74
uncharacterized LOC103164322	LOC103164322	103164322	12.56	8.77	8.72	9.28	9.68	11.22	363.82	270.85	280.71	305.95	307.39	335.55
odorant-binding protein 2b-like	LOC103164323	103164323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164324	LOC103164324	103164324	0.37	0.49	0.00	0.00	0.00	0.00	12.91	10.07	0.00	0.00	0.00	0.00
60S ribosomal protein L17 pseudogene	LOC103164325	103164325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164326	LOC103164326	103164326	2.34	3.61	3.22	2.87	5.24	3.03	56.21	78.69	100.61	101.98	119.02	117.77
uncharacterized LOC103164329	LOC103164329	103164329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.93
uncharacterized LOC103164330	LOC103164330	103164330	21.70	19.14	26.11	24.44	32.36	29.48	707.13	651.50	843.38	841.38	1054.65	1028.14
uncharacterized LOC103164331	LOC103164331	103164331	2.48	1.73	1.52	2.03	2.39	2.86	35.70	32.94	27.33	27.81	27.94	40.19
glyceraldehyde-3-phosphate dehydrogenase pseudogene	LOC103164332	103164332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103164333	LOC103164333	103164333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1 small nuclear ribonucleoprotein C pseudogene	LOC103164334	103164334	3.06	4.67	4.37	3.57	3.56	2.89	37.98	52.16	49.68	31.29	37.26	25.24
uncharacterized LOC103164335	LOC103164335	103164335	1.80	1.18	1.40	0.00	0.39	0.91	46.33	32.03	31.05	33.61	28.98	35.52
60S ribosomal protein L21 pseudogene	LOC103164336	103164336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trinucleotide repeat-containing gene 6A protein-like	LOC103164337	103164337	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.92	0.00	1.16	1.03	1.87
uncharacterized LOC103164338	LOC103164338	103164338	5.53	5.28	4.22	6.12	7.13	4.98	172.42	145.49	125.45	165.73	184.23	128.05
nuclear ubiquitous casein and cyclin-dependent kinase substrate 1-like	LOC103164339	103164339	8.17	11.49	10.20	7.75	9.03	6.17	56.21	90.59	75.77	55.63	53.82	36.45
uncharacterized LOC103164340	LOC103164340	103164340	3.92	3.89	2.55	2.81	3.28	2.65	138.24	145.49	103.09	92.71	111.78	96.27
uncharacterized LOC103164341	LOC103164341	103164341	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
spore wall protein 1-like	LOC103164342	103164342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vitellogenin-like	LOC103164343	103164343	0.12	0.10	0.02	0.00	0.00	0.00	9.11	8.24	1.24	1.16	0.00	0.00
E3 ubiquitin-protein ligase makorin-1-like	LOC103164345	103164345	0.45	0.25	0.20	0.32	0.28	0.30	11.39	9.15	7.45	6.95	7.24	9.35
protocadherin-3-like	LOC103164346	103164346	0.09	0.09	0.11	0.08	0.14	0.11	10.63	9.15	11.18	13.91	16.56	13.09
uncharacterized LOC103164347	LOC103164347	103164347	0.59	1.25	0.33	0.20	0.46	0.42	15.95	27.45	7.45	6.95	10.35	8.41
uncharacterized LOC103164348	LOC103164348	103164348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal-regulatory protein beta-1-like	LOC103164349	103164349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nodal modulator 1-like	LOC103164351	103164351	8.74	10.41	11.23	9.72	7.15	7.47	43.29	50.33	54.65	42.88	37.26	40.19
mitochondrial inner membrane organizing system protein 1 pseudogene	LOC103164352	103164352	0.43	0.53	0.37	0.00	0.00	0.29	3.04	2.75	1.24	0.00	0.00	0.93

uncharacterized LOC103164353	LOC103164353	103164353	0.09	0.11	0.00	0.28	0.61	0.11	9.87	10.98	9.94	19.70	19.66	10.28
zinc finger protein 701-like	LOC103164354	103164354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tropomyosin-2-like	LOC103164355	103164355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-I region Walker-like	LOC103164356	103164356	0.00	0.00	0.00	0.00	0.00	0.00						
zinc finger and SCAN domain containing protein 4D-like	LOC103164357	103164357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164358	LOC103164358	103164358	0.70	0.98	1.25	1.19	1.43	1.02	21.27	32.94	31.05	30.13	35.19	31.78
chromobox protein homolog 8-like	LOC103164359	103164359	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat extensin-like protein 5	LOC103164360	103164360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164361	LOC103164361	103164361	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164362	LOC103164362	103164362	0.04	0.05	0.07	0.00	0.00	0.10	2.28	0.92	1.24	3.48	1.03	5.61
uncharacterized LOC103164363	LOC103164363	103164363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly [ADP-ribose] polymerase 9-like	LOC103164364	103164364	1.71	2.56	1.75	2.41	3.44	3.66	24.31	32.03	27.33	35.93	40.36	40.19
retinal homeobox protein Rx2-like	LOC103164365	103164365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164366	LOC103164366	103164366	0.24	0.93	0.20	0.28	0.17	0.45	7.60	21.05	6.21	8.11	5.17	7.48
uncharacterized LOC103164367	LOC103164367	103164367	0.45	0.64	0.37	0.70	0.63	0.47	18.99	20.13	12.42	22.02	23.80	14.02
uncharacterized LOC103164368	LOC103164368	103164368	15.96	14.83	14.99	17.98	16.47	16.30	4636.99	4354.64	4474.00	5318.28	4852.02	4819.16
MLV-related proviral Env polyprotein-like	LOC103164369	103164369	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.93
uncharacterized LOC103164370	LOC103164370	103164370	1.15	1.46	1.13	1.63	1.86	2.01	62.28	76.86	67.07	83.44	106.60	100.94

keratin-associated protein 12-3	LOC103164371	103164371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60S ribosomal protein L27 pseudogene	LOC103164372	103164372	1.29	0.66	0.58	0.24	0.14	0.29	3.80	2.75	3.73	2.32	2.07	0.93
uncharacterized LOC103164373	LOC103164373	103164373	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164374	LOC103164374	103164374	1.31	1.24	1.78	2.02	2.16	2.16	12.91	11.90	24.84	22.02	24.84	22.43
uncharacterized LOC103164375	LOC103164375	103164375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164376	LOC103164376	103164376	0.47	0.20	0.28	0.00	0.00	0.00	12.91	14.64	7.45	2.32	0.00	0.00
uncharacterized LOC103164378	LOC103164378	103164378	0.23	0.29	0.34	0.51	0.48	0.43	24.31	31.11	40.99	53.31	52.78	46.73
uncharacterized LOC103164380	LOC103164380	103164380	0.44	0.35	0.55	0.37	0.51	0.40	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164381	LOC103164381	103164381	2.00	1.84	1.91	2.11	2.11	2.66	67.60	92.42	78.25	92.71	92.11	114.96
uncharacterized LOC103164382	LOC103164382	103164382	0.00	0.07	0.09	0.26	0.08	0.00	2.28	0.92	2.48	5.79	9.31	3.74
histone H2A.Z pseudogene	LOC103164383	103164383	2.29	2.89	1.36	0.89	0.21	0.51	77.47	99.74	64.59	31.29	17.59	23.37
uncharacterized LOC103164384	LOC103164384	103164384	0.55	0.58	0.55	0.73	0.65	0.52	35.70	31.11	40.99	41.72	33.12	35.52
uncharacterized LOC103164385	LOC103164385	103164385	1.16	1.24	0.64	0.20	0.72	0.49	28.10	23.79	11.18	8.11	13.45	9.35
uncharacterized LOC103164386	LOC103164386	103164386	0.04	0.00	0.00	0.06	0.00	0.00	3.04	0.92	1.24	1.16	3.10	0.93
uncharacterized LOC103164387	LOC103164387	103164387	0.76	0.92	0.66	1.37	1.11	3.22	21.27	15.56	27.33	19.70	19.66	27.11
T-cell receptor alpha chain V region 2B4-like	LOC103164388	103164388	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164389	LOC103164389	103164389	2.23	1.97	2.12	2.49	3.61	3.52	139.00	130.85	154.02	166.88	239.08	235.54
uncharacterized LOC103164390	LOC103164390	103164390	14.50	14.60	25.86	30.05	32.87	31.62	1813.78	1804.45	3380.96	3902.08	4265.18	4090.11

Ig lambda chain V-VI region AR-like	LOC103164391	103164391	0.00	0.00	0.00	0.00	0.00	0.00						
zinc finger protein 57-like	LOC103164392	103164392	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164393	LOC103164393	103164393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine-protein kinase pakF-like	LOC103164394	103164394	0.03	0.00	0.05	0.00	0.00	0.04	0.00	0.92	1.24	0.00	1.03	0.00
T-cell receptor alpha chain V region CTL-F3-like	LOC103164395	103164395	0.00	0.00	0.00	0.00	0.00	0.00						
eukaryotic initiation factor 4A-I-like	LOC103164396	103164396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40S ribosomal protein S18-like	LOC103164397	103164397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAF5-like RNA polymerase II p300/CBP-associated factor-associated factor 65 kDa subunit 5L pseudogene	LOC103164398	103164398	0.35	0.43	0.15	0.33	0.22	0.30	0.76	0.92	3.73	1.16	1.03	3.74
uncharacterized LOC103164399	LOC103164399	103164399	11.84	5.76	8.70	7.33	6.90	9.42	34.94	10.98	27.33	11.59	14.49	22.43
uncharacterized LOC103164400	LOC103164400	103164400	0.13	0.31	0.00	0.00	0.00	0.16	3.80	1.83	0.00	0.00	0.00	0.93
uncharacterized LOC103164401	LOC103164401	103164401	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
UDP-glucuronosyltransferase 1-2-like	LOC103164402	103164402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164403	LOC103164403	103164403	9.44	9.24	8.34	7.40	8.03	8.16	197.48	195.82	178.86	158.77	176.98	165.44
uncharacterized LOC103164404	LOC103164404	103164404	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen alpha-2(V) chain pseudogene	LOC103164405	103164405	48.84	44.53	37.58	34.51	27.46	28.48	704.85	661.57	532.86	507.61	439.87	442.10
uncharacterized LOC103164406	LOC103164406	103164406	0.17	0.15	0.15	0.08	0.15	0.23	16.71	11.90	9.94	9.27	14.49	13.09
uncharacterized LOC103164407	LOC103164407	103164407	0.31	0.10	0.00	0.25	0.22	0.30	3.80	5.49	0.00	5.79	8.28	7.48
A disintegrin and metalloproteinase with thrombospondin motifs 3-like	LOC103164408	103164408	0.09	0.00	0.21	0.13	0.36	0.43	1.52	1.83	3.73	4.64	7.24	12.15

uncharacterized LOC103164409	LOC103164409	103164409	0.00	0.00	0.00	0.00	0.00	0.00	4.56	3.66	1.24	2.32	5.17	3.74
Ig heavy chain V region 3-like	LOC103164410	103164410	0.00	0.00	0.14	0.14	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164411	103164411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 3-6-like	LOC103164412	103164412	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164413	103164413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 3-like	LOC103164414	103164414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 441-like	LOC103164415	103164415	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 3-6-like	LOC103164416	103164416	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 3-6-like	LOC103164417	103164417	0.00	0.00	0.00	0.00	0.00	0.00						
TBC1 domain family member 1-like	LOC103164418	103164418	1.39	2.33	3.18	2.33	2.75	2.54	23.55	36.60	53.41	37.09	44.50	40.19
Ig heavy chain V region 1B43-like	LOC103164419	103164419	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 3-6-like	LOC103164420	103164420	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 3-6-like	LOC103164421	103164421	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103164422	103164422	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164423	LOC103164423	103164423	148.12	141.95	149.02	154.44	161.02	164.93	499.02	491.37	494.35	461.25	524.74	500.98
uncharacterized LOC103164424	LOC103164424	103164424	0.22	0.30	0.33	0.48	0.36	0.49	22.79	27.45	36.02	46.36	38.29	45.80
uncharacterized LOC103164425	LOC103164425	103164425	0.14	0.07	0.13	0.11	0.17	0.16	2.28	2.75	6.21	2.32	3.10	3.74
uncharacterized LOC103164426	LOC103164426	103164426	27.49	27.42	21.53	22.60	27.26	25.54	138.24	151.90	114.27	106.62	145.93	140.20

zinc finger protein 609-like	LOC103164427	103164427	12.13	12.19	13.24	13.11	13.50	12.56	298.50	294.64	327.91	317.54	323.95	312.18
uncharacterized LOC103164428	LOC103164428	103164428	0.00	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
von Willebrand factor A domain-containing protein 5A-like	LOC103164429	103164429	1.41	0.89	1.70	2.45	0.60	1.21	34.94	29.28	43.47	64.90	17.59	28.97
uncharacterized LOC103164430	LOC103164430	103164430	0.06	0.16	0.18	0.04	0.13	0.07	15.19	14.64	11.18	9.27	17.59	14.95
carcinoembryonic antigen-related cell adhesion molecule 3-like	LOC103164431	103164431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164432	LOC103164432	103164432	1.26	1.17	0.92	1.11	1.58	1.35	50.13	46.67	36.02	32.45	47.61	45.80
uncharacterized LOC103164433	LOC103164433	103164433	6.74	7.29	4.40	5.00	5.40	5.78	1065.63	1157.52	706.75	805.45	856.97	922.52
uncharacterized LOC103164434	LOC103164434	103164434	2.26	1.90	2.62	2.42	2.05	2.76	47.85	40.26	49.68	55.63	43.47	59.82
uncharacterized LOC103164435	LOC103164435	103164435	0.09	0.06	0.08	0.06	0.09	0.08	12.91	7.32	4.97	5.79	10.35	10.28
alpha-enolase-like	LOC103164436	103164436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164437	LOC103164437	103164437	0.68	0.66	0.69	0.90	0.58	0.35	9.87	21.05	13.66	15.07	16.56	11.22
uncharacterized LOC103164438	LOC103164438	103164438	0.05	0.18	0.12	0.11	0.07	0.09	9.11	10.98	13.66	6.95	3.10	9.35
putative V-set and immunoglobulin domain-containing-like protein IGHV4OR15-8	LOC103164439	103164439	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 108A-like	LOC103164440	103164440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 3-like	LOC103164441	103164441	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 3-6-like	LOC103164442	103164442	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 3-6-like	LOC103164443	103164443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC103164444	103164444	0.00	0.00	0.00	0.00	0.00	0.00						

uncharacterized LOC103164445	LOC103164445	103164445	0.21	0.18	0.26	0.18	0.29	0.09	3.80	2.75	4.97	2.32	7.24	1.87
uncharacterized LOC103164446	LOC103164446	103164446	0.13	0.31	0.21	0.00	0.18	0.00	0.76	3.66	6.21	3.48	5.17	2.80
Ig heavy chain V region 5A-like	LOC103164447	103164447	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164448	LOC103164448	103164448	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 5A-like	LOC103164449	103164449	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103164450	103164450	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region VH558 A1/A4-like	LOC103164451	103164451	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164452	103164452	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 5A-like	LOC103164453	103164453	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164454	103164454	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103164455	103164455	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164456	LOC103164456	103164456	0.44	0.60	0.62	0.53	0.60	0.80	61.52	92.42	95.64	75.33	89.01	114.96
keratin-associated protein 9-1-like	LOC103164457	103164457	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 9-2-like	LOC103164458	103164458	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
keratin-associated protein 4-12-like	LOC103164459	103164459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164460	LOC103164460	103164460	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uncharacterized LOC103164461	LOC103164461	103164461	1.96	1.99	2.14	1.65	1.66	2.26	132.16	134.51	126.69	112.42	113.85	133.66
keratin-associated protein 9-3-like	LOC103164462	103164462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

uncharacterized LOC103164463	LOC103164463	103164463	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
GRB2-associated-binding protein 2 pseudogene	LOC103164464	103164464	0.11	0.00	0.00	0.05	0.05	0.00	2.28	0.00	0.00	1.16	1.03	0.93
Ig kappa chain V-II region 26-10-like	LOC103164465	103164465	0.00	0.00	0.00	0.00	0.00	0.00						
vegetative cell wall protein gp1-like	LOC103164466	103164466	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-terminal-binding protein 2 pseudogene	LOC103164467	103164467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 407-like	LOC103164468	103164468	4.00	4.67	3.99	3.85	3.03	2.70	269.64	312.03	269.53	259.60	198.72	181.33
40S ribosomal protein SA pseudogene	LOC103164469	103164469	9.10	10.21	6.71	4.46	8.87	3.29	50.13	60.39	38.50	24.34	51.75	18.69
uncharacterized LOC103164470	LOC103164470	103164470	0.15	0.51	0.00	0.00	0.21	0.09	2.28	3.66	0.00	4.64	2.07	8.41
Ig heavy chain V region 102-like	LOC103164471	103164471	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164472	103164472	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 108A-like	LOC103164473	103164473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 3-6-like	LOC103164474	103164474	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164475	103164475	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 23-like	LOC103164476	103164476	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164477	103164477	0.00	0.00	0.00	0.00	0.00	0.00						
40S ribosomal protein S26-like	LOC103164478	103164478	0.32	0.46	0.27	0.16	0.32	0.60	15.19	17.39	12.42	8.11	15.52	27.11
aminopeptidase O-like	LOC103164479	103164479	3.76	3.77	4.28	4.20	3.41	3.81	208.87	220.52	248.42	237.58	190.44	211.24
uncharacterized LOC103164480	LOC103164480	103164480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

60S ribosomal protein L39-like	LOC103164481	103164481	79.25	76.80	71.46	68.16	81.55	61.13	268.12	294.64	212.40	257.28	247.36	187.87
Ig kappa chain V-I region HK102-like	LOC103164482	103164482	0.00	0.00	0.00	0.00	0.00	0.00						
mastermind-like protein 3	LOC103164483	103164483	0.93	1.30	0.94	1.27	1.01	0.82	34.18	46.67	31.05	44.04	37.26	30.84
uncharacterized LOC103164484	LOC103164484	103164484	3.62	3.90	4.09	4.58	5.05	4.50	144.31	173.86	192.52	214.40	225.63	217.78
uncharacterized LOC103164485	LOC103164485	103164485	21.05	17.69	18.98	21.58	15.72	17.85	180.01	177.52	177.62	188.90	166.63	166.37
uncharacterized LOC103164486	LOC103164486	103164486	2.08	2.15	2.50	3.22	3.21	3.39	82.03	82.35	91.91	122.85	100.39	99.07
uncharacterized LOC103164487	LOC103164487	103164487	27.94	34.31	23.96	32.37	31.61	32.09	167.10	166.54	124.21	137.91	122.13	131.79
putative GPI-anchored protein PB15E9.01c	LOC103164488	103164488	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein YBL113C-like	LOC103164489	103164489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chitinase-like protein PB1E7.04c	LOC103164490	103164490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
putative uncharacterized protein DDB_G0282133	LOC103164491	103164491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164492	LOC103164492	103164492	4.25	4.79	5.15	6.33	7.86	7.03	68.36	75.95	95.64	98.51	114.88	116.83
collagen alpha-1(XXIV) chain-like	LOC103164493	103164493	0.02	0.06	0.00	0.00	0.00	0.00	0.76	4.58	0.00	0.00	0.00	0.00
uncharacterized LOC103164494	LOC103164494	103164494	1083.03	1093.50	914.39	868.23	931.38	881.92	922.84	915.03	783.76	680.29	773.13	662.68
uncharacterized LOC103164495	LOC103164495	103164495	0.71	0.54	0.73	0.41	0.45	0.51	30.38	21.05	28.57	18.54	20.70	23.37
chloride intracellular channel protein 5-like	LOC103164496	103164496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164497	LOC103164497	103164497	4.32	4.39	6.42	6.87	6.48	6.86	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor 7-like 2 pseudogene	LOC103164498	103164498	3.23	3.77	3.93	4.50	6.16	3.48	56.21	64.97	69.56	73.01	99.36	60.75

uncharacterized LOC103164499	LOC103164499	103164499	0.00	0.58	0.00	0.00	0.00	0.00	0.76	2.75	0.00	1.16	2.07	0.00
low-density lipoprotein receptor-related protein 1B-like	LOC103164500	103164500	0.00	0.18	0.00	0.00	0.20	0.00	0.00	1.83	0.00	0.00	2.07	0.00
uncharacterized LOC103164501	LOC103164501	103164501	7.91	6.62	7.29	6.69	8.00	7.85	309.13	291.90	306.80	287.41	328.09	301.90
uncharacterized LOC103164502	LOC103164502	103164502	0.13	0.31	0.43	0.00	1.81	0.00	2.28	3.66	3.73	0.00	12.42	1.87
probable GPI-anchored adhesin-like protein PGA55	LOC103164503	103164503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipocalin-1-like	LOC103164504	103164504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
beta-klotho pseudogene	LOC103164505	103164505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
cadherin EGF LAG seven-pass G-type receptor 1-like	LOC103164506	103164506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164507	LOC103164507	103164507	0.00	0.00	0.00	0.00	0.00	0.00	198.24	190.33	231.03	208.61	221.49	272.92
uncharacterized LOC103164508	LOC103164508	103164508	0.73	0.77	0.61	1.06	2.02	0.96	28.86	32.94	31.05	46.36	70.38	43.93
Ig kappa chain V-IV region-like	LOC103164509	103164509	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164510	LOC103164510	103164510	1.41	0.00	0.00	1.38	0.00	0.00	21.27	18.30	16.15	25.50	23.80	17.76
tropomyosin alpha-3 chain-like	LOC103164511	103164511	1.57	1.24	1.19	1.00	1.72	1.06	29.62	11.90	8.69	16.22	21.73	16.82
uncharacterized LOC103164512	LOC103164512	103164512	0.05	0.06	0.00	0.07	0.07	0.06	1.52	1.83	0.00	1.16	3.10	2.80
uncharacterized LOC103164513	LOC103164513	103164513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testican-1 pseudogene	LOC103164514	103164514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164515	LOC103164515	103164515	1.47	1.14	0.97	0.80	1.51	1.26	106.34	79.61	72.04	63.74	107.64	93.47
Ig kappa chain V-IV region-like	LOC103164516	103164516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ig kappa chain V-IV region-like	LOC103164517	103164517	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164518	LOC103164518	103164518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164519	LOC103164519	103164519	2.94	0.00	0.00	0.00	0.00	0.00	8.35	8.24	11.18	5.79	3.10	8.41
sperm motility kinase X-like	LOC103164520	103164520	0.02	0.02	0.03	0.00	0.00	0.00	1.52	0.92	0.00	1.16	0.00	0.00
CDKN2AIP N-terminal-like protein pseudogene	LOC103164521	103164521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	2.32	3.10	9.35
uncharacterized LOC103164522	LOC103164522	103164522	0.62	0.40	0.43	0.10	0.54	0.45	18.23	15.56	14.91	4.64	15.52	11.22
uncharacterized LOC103164523	LOC103164523	103164523	0.09	0.00	0.07	0.27	0.24	0.32	4.56	2.75	6.21	9.27	6.21	13.09
ubiquitin carboxyl-terminal hydrolase 28 pseudogene	LOC103164524	103164524	0.17	0.17	0.28	0.05	0.00	0.26	4.56	6.41	7.45	2.32	0.00	7.48
uncharacterized LOC103164525	LOC103164525	103164525	6.51	2.57	0.00	4.88	0.00	3.72	15.95	9.15	9.94	22.02	12.42	12.15
heat shock protein HSP 90-alpha pseudogene	LOC103164526	103164526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HLA class II histocompatibility antigen, DR beta 4 chain-like	LOC103164527	103164527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COBW domain-containing protein 1-like	LOC103164528	103164528	21.00	22.75	19.42	24.58	21.18	19.38	147.35	157.39	141.60	156.45	149.04	121.51
RNA polymerase II transcription factor SIII subunit A2-like	LOC103164529	103164529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164530	LOC103164530	103164530	9.28	7.78	12.95	11.25	19.68	13.63	94.94	96.08	144.08	169.20	144.90	170.11
laforin, isoform 9-like	LOC103164531	103164531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig kappa chain V-II region 26-10-like	LOC103164532	103164532	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164533	LOC103164533	103164533	5.61	4.57	4.51	4.37	3.03	4.16	134.44	143.66	155.26	124.00	101.43	100.94
uncharacterized LOC103164534	LOC103164534	103164534	0.26	0.20	0.10	0.03	0.08	0.08	41.77	29.28	17.39	5.79	14.49	16.82

PR domain zinc finger protein 16-like	LOC103164535	103164535	0.20	0.12	0.24	0.25	0.10	0.14	0.00	0.00	1.24	0.00	0.00	0.00
uncharacterized LOC103164537	LOC103164537	103164537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 102-like	LOC103164538	103164538	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164539	LOC103164539	103164539	0.14	0.17	0.05	0.09	0.12	0.14	5.32	5.49	1.24	2.32	4.14	2.80
cyclin-dependent kinase 11B-like	LOC103164540	103164540	30.29	28.28	29.78	33.27	33.51	33.29	145.07	136.34	155.26	128.64	162.49	157.96
uncharacterized LOC103164541	LOC103164541	103164541	0.65	0.33	0.15	0.44	0.64	0.74	3.04	3.66	6.21	3.48	7.24	8.41
Ig heavy chain V region 102-like	LOC103164542	103164542	0.00	0.00	0.00	0.00	0.00	0.00						
poly [ADP-ribose] polymerase 9-like	LOC103164543	103164543	2.31	2.03	2.19	3.18	3.56	2.73	88.87	75.03	91.91	125.16	127.30	109.36
uncharacterized LOC103164544	LOC103164544	103164544	0.00	0.00	0.00	0.00	9.07	0.00	8.35	5.49	11.18	13.91	11.38	16.82
homeobox protein rough-like	LOC103164545	103164545	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164546	LOC103164546	103164546	0.00	3.46	0.00	0.00	0.00	0.00	66.84	65.88	85.70	68.38	87.97	50.47
uncharacterized LOC103164547	LOC103164547	103164547	3.40	3.27	3.93	1.92	1.21	1.54	75.95	79.61	89.43	39.40	28.98	39.26
Ig heavy chain V region 102-like	LOC103164548	103164548	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 186-1-like	LOC103164549	103164549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region 102-like	LOC103164550	103164550	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103164551	103164551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164552	LOC103164552	103164552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164553	LOC103164553	103164553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93

microphthalmia-associated transcription factor-like	LOC103164554	103164554	0.31	0.21	0.30	0.33	0.23	0.37	7.60	5.49	7.45	8.11	4.14	7.48
Ig kappa chain V-V region K2-like	LOC103164555	103164555	0.00	0.00	0.00	0.00	0.00	0.00						
uncharacterized LOC103164557	LOC103164557	103164557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164558	LOC103164558	103164558	0.53	0.54	0.29	0.14	0.50	0.45	8.35	6.41	3.73	1.16	5.17	4.67
uncharacterized LOC103164559	LOC103164559	103164559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm motility kinase-like	LOC103164560	103164560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Ig heavy chain V region 102-like	LOC103164561	103164561	0.00	0.00	0.00	0.00	0.00	0.00						
calcium homeostasis endoplasmic reticulum protein-like	LOC103164562	103164562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
soluble scavenger receptor cysteine-rich domain-containing protein SSC5D-like	LOC103164563	103164563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164564	LOC103164564	103164564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164565	LOC103164565	103164565	0.25	0.23	0.39	0.41	0.37	0.31	15.95	13.73	28.57	22.02	22.77	19.63
uncharacterized LOC103164566	LOC103164566	103164566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
collagen alpha-3(VI) chain-like	LOC103164567	103164567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metallothionein-2-like	LOC103164568	103164568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
complex I intermediate-associated protein 30, mitochondrial pseudogene	LOC103164569	103164569	0.62	0.45	0.47	0.35	0.50	0.58	6.08	0.00	0.00	0.00	2.07	2.80
uncharacterized LOC103164570	LOC103164570	103164570	29.07	27.02	23.22	25.76	41.10	41.97	745.87	726.54	619.80	703.46	1020.50	1011.31
uncharacterized LOC103164571	LOC103164571	103164571	8.50	8.49	7.74	8.99	8.68	10.61	0.76	0.92	1.24	0.00	2.07	1.87
uncharacterized LOC103164572	LOC103164572	103164572	1.03	1.72	0.92	1.90	1.14	1.52	29.62	44.84	34.78	48.67	30.01	45.80

uncharacterized LOC103164573	LOC103164573	103164573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AF4/FMR2 family member 1-like	LOC103164574	103164574	4.23	4.13	4.67	3.62	3.54	3.40	187.61	180.26	202.46	162.25	154.21	147.68
forkhead box protein D4-like	LOC103164575	103164575	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
protein MNN4-like	LOC103164576	103164576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V-III region VH26-like	LOC103164577	103164577	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region ABE-47N-like	LOC103164578	103164578	0.00	0.00	0.00	0.00	0.00	0.00						
ninein-like	LOC103164579	103164579	4.93	4.92	4.89	4.08	4.94	3.80	31.90	32.03	27.33	23.18	27.94	24.30
uncharacterized LOC103164580	LOC103164580	103164580	7.11	6.90	7.62	7.04	5.58	6.49	471.67	480.39	531.61	489.06	403.64	474.81
PRAME family member 12-like	LOC103164581	103164581	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized protein YMR317W-like	LOC103164582	103164582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein FAM19A5-like	LOC103164583	103164583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 120-like	LOC103164584	103164584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164585	LOC103164585	103164585	0.30	0.18	0.08	0.27	0.24	0.09	11.39	4.58	2.48	8.11	8.28	3.74
uncharacterized LOC103164586	LOC103164586	103164586	8.54	7.95	6.82	5.77	4.15	4.72	545.35	504.18	444.67	373.17	269.10	304.70
Ig heavy chain V region 5A-like	LOC103164587	103164587	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 3-like	LOC103164588	103164588	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V-III region VH26-like	LOC103164589	103164589	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region 102-like	LOC103164590	103164590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ig heavy chain V region 108A-like	LOC103164591	103164591	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region PJ14-like	LOC103164592	103164592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ig heavy chain V region PJ14-like	LOC103164593	103164593	0.00	0.00	0.00	0.00	0.00	0.00						
Ig heavy chain V region MC101-like	LOC103164594	103164594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncharacterized LOC103164595	LOC103164595	103164595	3.43	3.24	3.21	2.37	3.22	3.49	63.80	57.65	47.20	42.88	57.96	56.08
Ig heavy chain V region VH558 A1/A4-like	LOC103164596	103164596	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-60S ribosomal protein L40 pseudogene	LOC103164597	103164597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26S proteasome non-ATPase regulatory subunit 3-like	LOC103164599	103164599	66.20	63.34	46.20	41.93	38.90	40.56	2173.04	2072.55	1548.88	1403.45	1270.96	1352.47
gasdermin-A-like	LOC103164600	103164600	0.06	0.08	0.00	0.30	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
laccase (multicopper oxidoreductase) domain containing 1	Lacc1	100769755	6.03	6.71	6.59	7.69	9.70	8.66	478.51	534.38	541.55	630.45	755.54	695.39
lactation elevated 1	Lace1	100770027	1.81	2.63	2.93	3.30	2.93	2.84	128.36	180.26	204.94	229.47	202.86	202.82
lactamase, beta	Lactb	100750848	2.23	2.35	2.18	3.01	3.37	2.78	111.65	113.46	113.03	147.18	167.67	138.33
lactamase, beta 2	Lactb2	100773724	8.94	11.67	10.70	11.88	15.55	14.19	311.41	386.14	382.56	396.35	509.21	488.83
lactamase, beta-like 1	Lactbl1	100770153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ladinin 1	Lad1	100764633	0.06	0.17	0.10	0.13	0.03	0.05	4.56	10.07	6.21	8.11	2.07	2.80
lymphocyte-activation gene 3	Lag3	100756493	0.08	0.06	0.03	0.05	0.02	0.06	10.63	6.41	8.69	9.27	7.24	2.80
L antigen family, member 3	Lage3	100761505	20.39	19.99	21.57	23.33	25.44	28.20	268.88	264.44	273.26	282.78	324.99	354.24
leukocyte-associated immunoglobulin-like receptor 1	Lair1	100773832	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lactalbumin, alpha-	Lalba	100758724	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
laminin, alpha 1	Lama1	100765555	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
laminin, alpha 2	Lama2	100771923	28.70	27.71	29.14	29.46	19.88	19.62	3971.63	3805.62	4120.00	4057.38	2758.24	2726.43
laminin, alpha 3	Lama3	100755004	0.90	0.87	0.14	0.17	0.38	0.36	166.34	146.41	26.08	30.13	65.20	61.69
laminin, alpha 4	Lama4	100757321	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
laminin, alpha 5	Lama5	100755091	17.75	16.77	20.35	13.60	12.67	14.77	6402.16	6129.81	7495.99	4943.95	4721.61	5351.92
laminin, beta 1	Lamb1	100757343	208.39	203.82	263.13	272.82	275.30	281.08	36141.15	35970.88	46637.88	47689.55	48127.90	48704.70
laminin, beta 2 (laminin S)	Lamb2	100762566	27.07	25.08	38.49	30.02	19.99	22.20	4678.00	4351.90	6626.53	5205.87	3482.73	3832.15
laminin, beta 3	Lamb3	100763082	0.00	0.02	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
laminin, gamma 1 (formerly LAMB2)	Lamc1	100761564	144.92	144.19	203.43	204.53	169.72	179.22	26840.60	26977.93	38363.09	38385.74	31905.52	33675.21
laminin, gamma 2	Lamc2	100765048	2.52	2.35	2.93	3.43	3.57	4.25	447.37	446.54	530.37	635.09	674.81	764.56
laminin, gamma 3	Lamc3	100751974	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.93

lysosomal-associated membrane protein 1	Lamp1	100689406	320.84	325.50	318.12	302.49	281.51	286.54	17777.02	18204.59	17795.38	16768.41	15629.33	15837.98
lysosomal-associated membrane protein 2	Lamp2	100689316	83.58	88.82	82.71	80.90	88.86	84.33	3363.24	3528.37	3333.76	3217.16	3499.29	3444.26
lysosomal-associated membrane protein 3	Lamp3	100757631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysosomal-associated membrane protein family, member 5	Lamp5	100770483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	Lamtor1	100750343	61.02	58.66	58.83	53.27	42.89	44.45	1848.72	1775.17	1777.43	1581.93	1276.14	1338.45
late endosomal/lysosomal adaptor, MAPK and MTOR activator 2	Lamtor2	100758275	74.63	67.57	86.90	74.98	59.75	65.39	1089.18	973.60	1265.69	1033.76	849.72	936.54
late endosomal/lysosomal adaptor, MAPK and MTOR activator 3	Lamtor3	100751917	100.98	102.20	97.53	100.24	102.83	100.83	2874.86	2952.81	2732.59	2889.19	2900.03	2886.26
late endosomal/lysosomal adaptor, MAPK and MTOR activator 4	Lamtor4	100750902	68.09	62.50	76.14	54.39	41.70	43.84	944.87	881.18	1060.74	733.60	560.96	588.84
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	Lamtor5	100774846	85.84	78.76	92.27	88.03	90.63	101.35	1645.16	1537.26	1782.39	1679.27	1740.85	1903.92
LanC lantibiotic synthetase component C-like 1 (bacterial)	Lancl1	100758445	39.52	36.99	35.52	34.91	37.23	42.26	1513.00	1455.82	1378.72	1362.89	1430.35	1642.21
LanC lantibiotic synthetase component C-like 2 (bacterial)	Lancl2	100763111	5.79	5.96	7.78	7.41	7.76	7.61	625.86	648.76	862.01	812.40	832.13	825.31
LanC lantibiotic synthetase component C-like 3 (bacterial)	Lancl3	100762249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine aminopeptidase 3	Lap3	100768932	89.89	85.34	86.68	88.66	83.06	86.62	4764.59	4635.56	4620.56	4665.81	4367.64	4488.28
lysosomal protein transmembrane 4 alpha	Laptm4a	100750771	65.94	66.99	74.47	71.46	78.48	76.69	3262.98	3299.61	3533.74	3273.95	3613.14	3508.75
lysosomal protein transmembrane 4 beta	Laptm4 b	100754119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysosomal protein transmembrane 5	Laptm5	100766375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
like-glycosyltransferase	Large	100765249	8.76	9.72	11.91	11.71	12.91	12.72	1054.24	1203.27	1420.95	1379.11	1571.11	1526.32
La ribonucleoprotein domain family, member 1	Larp1	100767665	47.72	46.91	45.30	46.33	42.01	42.81	4308.87	4327.19	4215.64	4216.15	3787.01	3860.19
La ribonucleoprotein domain family, member 1B	Larp1b	100772564	19.50	20.50	25.34	28.59	20.98	20.66	972.97	1016.60	1250.78	1380.27	1032.92	1020.66
La ribonucleoprotein domain family, member 4	Larp4	100775073	39.93	41.42	37.76	42.45	40.59	36.98	5171.70	5343.80	4954.68	5504.87	5249.45	4816.35
La ribonucleoprotein domain family, member 4B	Larp4b	100753870	24.93	23.38	22.61	24.70	23.63	23.59	4222.28	3992.29	3836.81	4173.27	3977.45	3974.22
La ribonucleoprotein domain family, member 6	Larp6	100756813	6.75	6.32	6.63	6.59	6.26	5.76	303.82	284.58	285.68	280.46	259.78	257.03
La ribonucleoprotein domain family, member 7	Larp7	100754843	24.56	22.32	20.43	21.22	22.82	19.73	762.58	735.69	637.19	695.35	717.25	619.69
leucyl-tRNA synthetase	Lars	100764360	66.51	66.95	68.14	73.47	72.82	71.62	7742.74	7808.90	7905.88	8392.90	8380.28	8188.64
leucyl-tRNA synthetase 2, mitochondrial	Lars2	100758963	11.71	11.93	12.14	11.44	11.10	11.23	1500.09	1582.09	1578.69	1485.74	1453.12	1466.50
LAS1-like (S. cerevisiae)	Las1l	100774247	34.23	36.00	35.77	36.80	35.01	34.59	2473.82	2607.85	2625.77	2664.36	2555.38	2517.07
LIM and SH3 protein 1	Lasp1	100765803	47.98	47.41	31.63	32.44	35.34	37.08	4348.36	4329.02	2895.30	2954.09	3226.05	3375.09
linker for activation of T cells	Lat	100764497	0.28	0.25	0.15	0.25	0.29	0.20	21.27	19.22	12.42	17.38	13.45	15.89
linker for activation of T cells family, member 2	Lat2	100771985	1.25	1.71	0.00	0.00	0.00	0.00	71.40	86.93	0.00	0.00	0.00	0.00
large tumor suppressor kinase 1	Lats1	100758732	17.50	16.53	16.18	19.59	19.33	17.58	3439.19	3257.52	3229.43	3874.27	3793.22	3477.91

large tumor suppressor kinase 2	Lats2	100760686	10.44	10.68	10.27	9.43	9.56	10.05	1535.79	1554.64	1514.10	1382.59	1386.88	1477.71
lymphocyte transmembrane adaptor 1	Lax1	100764572	0.05	0.20	0.04	0.17	0.21	0.17	3.04	13.73	3.73	15.07	15.52	11.22
layilin	Layn	100689416	10.01	10.45	12.54	13.79	14.01	14.81	494.46	517.91	608.62	654.79	672.74	711.28
limb bud and heart development	Lbh	100754182	0.30	0.42	0.19	0.21	0.16	0.17	10.63	15.56	6.21	5.79	6.21	6.54
lipopolysaccharide binding protein	Lbp	100759867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lamin B receptor	Lbr	100770668	35.06	35.60	33.92	32.48	34.21	34.93	2592.31	2660.92	2506.53	2363.04	2246.96	2360.04
ladybird homeobox 2	Lbx2	100761783	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
Leber congenital amaurosis 5	Lca5	100750959	1.64	2.11	1.02	1.10	1.91	1.43	180.77	230.59	113.03	118.21	205.96	153.29
Leber congenital amaurosis 5-like	Lca5l	100753975	0.22	0.23	0.27	0.18	0.37	0.29	22.03	23.79	28.57	24.34	41.40	32.71
lecithin-cholesterol acyltransferase	Lcat	100751451	5.56	5.18	5.21	5.56	4.59	5.12	311.41	289.15	295.62	312.91	269.10	301.90
late cornified envelope 5A	Lce5a	100758294	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
late cornified envelope 6A	Lce6a	100755394	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
lymphocyte-specific protein tyrosine kinase	Lck	100759316	0.55	0.75	0.67	0.63	0.67	0.67	31.14	42.09	42.23	42.88	38.29	37.39
lysocardiolipin acyltransferase 1	Lclat1	100753881	18.27	18.21	20.72	21.36	25.60	23.86	774.73	773.20	874.43	870.35	1018.43	989.82
leucine carboxyl methyltransferase 1	Lcmt1	100762400	29.91	32.04	25.09	25.02	25.82	26.33	1105.13	1170.33	931.57	898.16	943.91	954.30
leucine carboxyl methyltransferase 2	Lcmt2	100768317	2.47	2.40	2.05	2.34	2.05	1.94	158.74	156.47	132.90	150.66	132.48	125.25
lipocalin 1	Lcn1	100768009	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
lipocalin 10	Lcn10	100762990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipocalin 12	Lcn12	100763841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2.32	1.03	0.93
lipocalin 15	Lcn15	100763749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipocalin 2	Lcn2	100752966	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipocalin 6	Lcn6	100763564	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
lipocalin 8	Lcn8	100763279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
lipocalin 9	Lcn9	100759474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ligand dependent nuclear receptor corepressor-like	Lcorl	100769778	5.98	6.63	5.85	7.42	8.81	7.62	541.55	600.26	532.86	705.78	804.18	719.70
lymphocyte cytosolic protein 1 (L-plastin)	Lcp1	100754592	0.67	0.68	0.14	0.26	0.43	0.44	75.19	73.20	14.91	27.81	44.50	43.93
lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	Lcp2	100766904	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lactase	Lct	100766856	0.00	0.01	0.01	0.00	0.00	0.01	0.76	0.92	1.24	0.00	0.00	0.93
lactase-like	Lctl	100758648	1.45	1.80	1.90	2.32	2.37	2.52	189.88	199.48	219.85	286.25	286.69	270.12
LIM domain binding 1	Ldb1	100773526	64.12	63.79	76.60	66.42	45.74	49.20	3031.32	3047.98	3687.76	3101.27	2113.44	2241.34
LIM domain binding 2	Ldb2	100773655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM domain binding 3	Ldb3	100750621	0.08	0.07	0.01	0.00	0.01	0.06	2.28	5.49	1.24	0.00	1.03	6.54
lactate dehydrogenase A	Ldha	100689064	879.07	883.19	761.72	806.48	858.91	879.66	39050.95	39553.24	34208.31	35982.14	38032.64	39313.14
lactate dehydrogenase A-like 6B	Ldhal6b	100770821	0.38	0.31	0.25	0.32	0.29	0.23	41.02	35.69	27.33	35.93	32.08	26.17
lactate dehydrogenase B	Ldhb	100770347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lactate dehydrogenase D	Ldhd	100769710	0.24	0.23	1.70	1.61	1.69	1.92	21.27	18.30	134.15	122.85	135.58	155.16
low density lipoprotein receptor	Ldlr	100689399	4.36	3.81	5.24	5.06	2.87	3.23	379.77	334.90	463.30	451.98	250.47	286.01
low density lipoprotein receptor class A domain containing 1	Ldlrad1	100771340	0.00	0.00	0.00	0.25	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
low density lipoprotein receptor class A domain containing 2	Ldlrad2	100768426	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.16	1.03	0.93

low density lipoprotein receptor class A domain containing 3	Ldlrad3	100757766	4.59	4.71	4.19	4.13	4.08	3.90	380.53	399.87	350.27	333.77	343.62	321.53
low density lipoprotein receptor class A domain containing 4	Ldlrad4	100758578	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low density lipoprotein receptor adaptor protein 1	Ldlrap1	100762953	8.63	8.80	8.97	8.36	7.92	7.89	602.31	611.24	614.83	586.41	541.30	550.52
leucine zipper, down-regulated in cancer 1-like	Ldoc1l	100752206	10.69	11.06	12.20	10.89	11.15	11.62	661.56	671.63	717.93	676.81	665.50	715.96
liver expressed antimicrobial peptide 2	Leap2	100763463	0.12	0.00	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
leukocyte cell derived chemotaxin 1	Lect1	100753450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
leukocyte cell-derived chemotaxin 2	Lect2	100753512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphoid enhancer-binding factor 1	Lef1	100761200	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
leucine, glutamate and lysine rich 1	Lekr1	100754957	0.99	1.13	0.90	1.08	1.33	1.21	163.30	178.43	144.08	164.57	193.54	192.54
late cornified envelope-like proline-rich 1	Lelp1	103160047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEM domain containing 1	Lemd1	100760186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEM domain containing 2	Lemd2	100751488	45.55	45.27	54.96	43.96	32.52	35.25	2330.27	2317.78	2825.75	2251.78	1670.47	1789.89
LEM domain containing 3	Lemd3	100770973	11.31	10.96	10.85	11.26	13.38	13.12	1160.58	1139.22	1136.51	1148.49	1383.78	1364.62
lens epithelial protein	Lenep	100758650	0.38	0.46	0.24	0.47	0.40	0.38	18.99	20.13	13.66	19.70	19.66	21.50
leukocyte receptor cluster (LRC) member 1	Leng1	100754365	1.14	1.64	1.12	0.78	0.82	0.85	20.51	30.20	18.63	13.91	13.45	13.09
leukocyte receptor cluster (LRC) member 8	Leng8	100774417	6.08	6.99	5.25	3.93	2.94	3.23	331.92	378.82	283.20	181.95	140.76	157.02
Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	Leo1	100752559	29.27	29.77	29.07	32.29	31.96	28.10	1683.90	1753.20	1696.69	1876.29	1860.91	1602.96
leptin	Lep	100774160	0.00	0.05	0.00	0.03	0.00	0.00	0.00	1.83	0.00	1.16	1.03	0.00
leptin receptor	Lepr	100756564	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
leucine proline-enriched proteoglycan (leprecan) 1	Lepre1	100769529	35.47	35.94	39.34	41.01	41.77	43.43	2808.78	2835.69	3090.31	3139.51	3102.89	3309.67
leprecan-like 1	Leprel1	100752370	18.31	18.93	25.02	27.17	29.96	29.06	1648.20	1688.24	2244.45	2409.39	2682.68	2601.19
leprecan-like 2	Leprel2	100767056	27.31	25.92	36.21	27.87	20.91	24.64	1719.60	1635.16	2248.18	1775.47	1321.68	1540.34
leprecan-like 4	Leprel4	100772453	28.51	27.31	18.67	14.54	11.47	13.25	1037.53	1017.52	698.05	547.01	450.22	480.42
leptin receptor overlapping transcript	Leprot	100755400	26.85	28.89	27.57	28.11	29.69	29.63	1583.64	1699.22	1643.28	1646.83	1728.43	1742.22
leptin receptor overlapping transcript-like 1	Leprotl1	100755360	31.01	31.35	32.41	31.35	31.22	33.13	2243.68	2289.41	2345.06	2245.99	2241.78	2377.80
leucine zipper-EF-hand containing transmembrane protein 1	Letm1	100764264	55.19	55.04	60.56	63.49	62.30	66.47	3859.98	3863.27	4255.39	4389.99	4301.40	4578.95
LETM1 domain containing 1	Letmd1	100756020	16.19	15.75	17.74	18.45	17.98	17.88	1251.72	1204.18	1376.23	1427.79	1388.95	1390.79
LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	Lfng	100762397	1.55	1.68	1.25	1.26	1.28	0.95	98.74	109.80	86.95	78.81	78.66	60.75
lectin, galactoside-binding, soluble, 1	Lgals1	100751963	487.57	509.48	401.41	369.20	256.48	290.49	6512.29	6821.57	5347.18	4765.48	3442.36	3802.24
lectin, galactoside-binding, soluble, 12	Lgals12	100768596	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lectin, galactoside-binding, soluble, 2	Lgals2	100755021	11.87	12.10	11.97	11.76	11.83	11.36	311.41	323.01	331.64	314.07	281.52	276.66
lectin, galactoside-binding, soluble, 3	Lgals3	100756046	120.32	123.34	93.47	93.77	121.98	123.56	3119.43	3209.02	2415.86	2396.65	3121.52	3134.88

lectin, galactoside-binding, soluble, 3 binding protein	Lgals3bp	100767541	51.67	47.39	48.43	40.95	31.34	34.95	3093.60	2836.60	2937.54	2443.00	1857.80	2098.33
lectin, galactoside-binding, soluble, 4	Lgals4	100759813	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
lectin, galactoside-binding, soluble, 7	Lgals7	100767471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lectin, galactoside-binding, soluble, 8	Lgals8	100764282	32.84	33.74	32.37	35.13	39.44	36.72	1790.99	1840.13	1784.88	1914.54	2132.07	2021.69
lectin, galactoside-binding, soluble, 9	Lgals9	100769340	10.06	9.40	8.03	7.63	7.93	7.66	475.47	484.05	408.65	375.49	385.01	347.70
lectin, galactoside-binding-like	Lgalsl	100755244	6.95	8.10	8.75	10.15	10.03	10.40	686.62	807.97	896.79	1010.58	988.41	1024.40
leucine-rich, glioma inactivated 1	Lgi1	100753918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
leucine-rich repeat LGI family, member 2	Lgi2	100767999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat LGI family, member 3	Lgi3	100766474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
leucine-rich repeat LGI family, member 4	Lgi4	100758895	0.03	0.07	0.00	0.04	0.00	0.03	0.76	3.66	1.24	4.64	0.00	4.67
legumain	Lgmn	100752348	209.82	205.61	243.98	238.67	216.06	228.86	11064.21	10879.75	12782.32	12347.13	11240.99	11988.07
leucine-rich repeat containing G protein-coupled receptor 4	Lgr4	100752655	3.30	3.28	4.75	4.95	4.81	4.34	436.74	439.22	638.43	655.95	642.73	577.63
leucine-rich repeat containing G protein-coupled receptor 5	Lgr5	100763381	0.01	0.00	0.01	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
leucine-rich repeat containing G protein-coupled receptor 6	Lgr6	100762015	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.24	2.32	1.03	0.00
lengsin, lens protein with glutamine synthetase domain	Lgsn	100764367	0.02	0.00	0.00	0.03	0.00	0.00	1.52	0.00	0.00	3.48	1.03	0.93
luteinizing hormone beta	Lhb	100689384	0.08	0.19	0.13	0.12	0.00	0.00	1.52	2.75	3.73	2.32	1.03	1.87
luteinizing hormone/choriogonadotropin receptor	Lhcgr	100772530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipoma HMGIC fusion partner	Lhfp	100772013	12.14	11.69	14.64	12.52	11.18	14.13	234.70	231.50	289.41	243.37	215.28	271.99
lipoma HMGIC fusion partner-like 1	Lhfpl1	100753727	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipoma HMGIC fusion partner-like 2	Lhfpl2	100755063	2.48	2.80	1.25	1.30	0.97	0.91	284.07	319.35	142.84	148.34	109.71	105.62
lipoma HMGIC fusion partner-like 3	Lhfpl3	100758461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipoma HMGIC fusion partner-like 4	Lhfpl4	100753987	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
lipoma HMGIC fusion partner-like 5	Lhfpl5	100764686	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
phospholysine phosphohistidine inorganic pyrophosphate phosphatase	Lhpp	100771604	14.71	15.26	12.32	11.66	8.97	9.28	485.35	470.33	416.10	381.28	301.18	292.55
LIM homeobox 1	Lhx1	100758453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM homeobox 2	Lhx2	100766635	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
LIM homeobox 3	Lhx3	100758218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM homeobox 4	Lhx4	100750849	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
LIM homeobox 5	Lhx5	100768655	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM homeobox 6	Lhx6	100769913	1.52	1.50	1.37	1.40	1.42	1.12	147.35	142.75	127.93	126.32	130.41	103.75
LIM homeobox 8	Lhx8	100763732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM homeobox 9	Lhx9	100763500	5.14	5.65	9.82	8.68	9.03	8.44	450.41	482.22	806.11	738.23	773.13	766.43
lipoic acid synthetase	Lias	100757956	29.66	29.93	28.53	31.22	38.09	37.12	1379.32	1392.68	1327.79	1419.68	1740.85	1642.21
leukemia inhibitory factor	Lif	100758301	30.29	28.49	21.76	19.81	20.79	21.83	4046.07	3829.42	2931.32	2665.52	2769.62	2936.73
leukemia inhibitory factor receptor alpha	Lifr	100773023	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.87
ligase I, DNA, ATP-dependent	Lig1	100767365	21.39	22.27	26.23	25.95	19.96	21.44	1973.28	2072.55	2433.25	2374.63	1890.92	2007.67
ligase III, DNA, ATP-dependent	Lig3	100765011	22.72	23.43	15.30	16.33	15.41	15.76	2323.43	2374.51	1562.55	1682.75	1573.18	1628.19

ligase IV, DNA, ATP-dependent	Lig4	100754640	6.58	6.35	5.79	6.73	7.88	7.09	609.15	596.60	561.42	639.72	730.70	661.75
lens intrinsic membrane protein 2, 19kDa	Lim2	100752181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM domain and actin binding 1	Lima1	100772761	15.38	16.00	13.53	16.44	15.95	16.16	1125.64	1187.71	1035.90	1219.18	1196.44	1206.66
LIM and calponin homology domains 1	Limch1	100761017	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
LIM domains containing 1	Limd1	100759535	27.17	24.70	30.77	29.14	24.67	25.87	3616.93	3310.59	4136.15	3880.06	3284.01	3462.02
LIM domain containing 2	Limd2	100774186	72.16	70.37	82.96	68.07	48.67	55.75	2134.31	2089.94	2417.10	1966.69	1401.37	1611.37
Lck interacting transmembrane adaptor 1	Lime1	100767764	3.95	2.61	3.93	3.80	3.78	3.71	304.58	222.35	290.65	305.95	307.39	311.25
LIM domain kinase 1	Limk1	100770918	6.49	6.60	6.84	5.61	4.65	4.96	616.75	621.31	644.64	541.22	450.22	458.92
LIM domain kinase 2	Limk2	100760910	11.00	10.31	11.28	10.96	9.99	10.42	1201.59	1135.56	1233.39	1219.18	1091.91	1139.36
LIM and senescent cell antigen-like domains 1	Lims1	100760199	73.44	75.11	63.25	69.43	78.95	75.51	7450.32	7681.71	6440.22	7083.32	8011.83	7662.42
LIM and senescent cell antigen-like domains 2	Lims2	100755311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lin-28 homolog A (C. elegans)	Lin28a	100767698	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lin-28 homolog B (C. elegans)	Lin28b	100770182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lin-37 homolog (C. elegans)	Lin37	100754605	8.22	8.26	9.19	7.59	5.92	6.18	191.40	183.01	222.33	171.52	139.72	139.27
lin-52 homolog (C. elegans)	Lin52	100755280	15.85	15.53	16.45	18.39	19.67	19.63	949.42	958.96	1007.33	1081.27	1188.16	1159.93
lin-54 homolog (C. elegans)	Lin54	100755318	12.06	12.37	7.89	8.92	10.79	10.14	1689.97	1720.26	1120.36	1248.16	1511.08	1413.22
lin-7 homolog A (C. elegans)	Lin7a	100772870	0.19	0.18	0.07	0.08	0.01	0.01	44.81	47.58	17.39	19.70	2.07	1.87
lin-7 homolog B (C. elegans)	Lin7b	100770648	0.17	0.15	0.21	0.16	0.06	0.10	12.15	10.07	14.91	13.91	9.31	9.35
lin-7 homolog C (C. elegans)	Lin7c	100752354	73.16	70.82	60.91	68.55	71.93	71.25	5005.36	4901.83	4197.01	4684.35	4953.44	4887.39
lin-9 homolog (C. elegans)	Lin9	100774401	7.49	6.95	7.02	7.89	8.98	8.36	660.04	603.01	622.29	689.56	787.62	751.47
leucine rich repeat and Ig domain containing 1	Lingo1	100759579	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
leucine rich repeat and Ig domain containing 2	Lingo2	100764064	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat and Ig domain containing 3	Lingo3	100771970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat and Ig domain containing 4	Lingo4	100768762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lines homolog (Drosophila)	Lins	100767653	8.73	8.80	8.67	9.10	9.40	8.93	672.19	670.72	670.73	689.56	698.62	663.62
lipase A, lysosomal acid, cholesterol esterase	Lipa	100759060	42.39	45.46	33.01	36.70	40.65	40.37	3611.61	3927.32	2864.25	3136.04	3474.45	3421.83
lipase, hepatic	Lipc	100756973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipase, hormone-sensitive	Lipe	100755300	2.21	2.39	2.29	1.62	1.40	1.39	171.66	172.94	181.34	122.85	103.50	124.31
lipase, gastric	Lipf	100761374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipase, endothelial	Lipg	100766418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipase, member H	Liph	100758084	1.42	1.25	0.86	0.85	0.69	0.89	148.11	130.85	96.88	85.76	73.48	99.07
lipase, member I	Lipi	100767165	0.00	0.08	0.07	0.07	0.12	0.05	0.76	3.66	3.73	3.48	5.17	2.80
lipase, family member K	Lipk	100757999	0.00	0.06	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
lipase, family member M	Lipm	100761952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipoyltransferase 1	Lipt1	100763903	2.38	2.52	2.10	2.01	2.49	2.55	98.74	99.74	83.22	79.97	100.39	97.21
lipoyl(octanoyl) transferase 2 (putative)	Lipt2	100756678	3.85	4.16	5.62	5.54	6.06	5.13	123.80	139.09	173.89	178.47	192.51	159.83
lipopolysaccharide-induced TNF factor	Litaf	100769636	45.28	44.29	53.95	46.68	40.57	45.38	1765.93	1738.56	2117.76	1813.71	1625.96	1815.13
Lix1 homolog (chicken)	Lix1	100760571	0.10	0.00	0.11	0.00	0.05	0.13	3.04	1.83	2.48	0.00	2.07	1.87

Lix1 homolog (mouse)-like	Lix1l	100773392	32.58	33.28	38.28	35.61	34.95	37.59	973.73	1009.28	1170.05	1067.37	1069.14	1131.88
LKAAEAR motif containing 1	Lkaaear 1	100768290	0.89	0.91	0.78	1.09	1.23	1.28	123.05	128.10	110.55	143.71	157.32	163.57
lethal giant larvae homolog 1 (Drosophila)	Llgl1	100755918	9.57	9.84	12.38	10.26	8.36	8.12	1211.47	1210.59	1529.01	1280.61	1065.00	1067.39
lethal giant larvae homolog 2 (Drosophila)	Llgl2	100755620	0.03	0.02	0.03	0.03	0.01	0.01	3.04	2.75	4.97	5.79	1.03	1.87
LLP homolog, long-term synaptic facilitation (Aplysia)	Llph	100766851	132.95	126.85	124.51	126.35	116.85	112.31	2668.26	2531.90	2486.66	2469.66	2299.74	2210.49
lectin, mannose-binding, 1	Lman1	100754529	37.39	38.63	39.23	42.17	46.29	44.18	4700.79	4880.79	5020.52	5416.79	5921.16	5509.88
lectin, mannose-binding, 1 like	Lman1l	100755627	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.92	0.00	2.32	0.00	0.00
lectin, mannose-binding 2	Lman2	100772915	134.59	132.53	127.73	106.12	88.40	88.88	6127.96	6073.08	5825.39	4806.04	4041.62	4070.49
lectin, mannose-binding 2-like	Lman2l	100769742	23.30	22.25	23.57	24.12	14.83	13.66	1449.20	1397.26	1470.63	1495.01	915.96	844.01
limb development membrane protein 1	Lmbr1	100753365	6.38	6.80	8.05	9.25	9.11	8.83	617.51	661.57	786.24	874.98	878.70	852.42
limb development membrane protein 1-like	Lmbr1l	100764890	5.33	4.70	6.86	6.33	4.68	4.57	379.77	336.73	483.17	464.73	337.41	351.44
LMBR1 domain containing 1	Lmbrd1	100753381	18.72	19.61	18.10	20.46	23.02	23.11	1434.01	1523.53	1402.32	1566.86	1740.85	1750.64
LMBR1 domain containing 2	Lmbrd2	100754477	6.86	6.86	7.77	9.49	10.80	9.72	1547.18	1565.62	1765.01	2153.27	2435.32	2197.41
LIM and cysteine-rich domains 1	Lmcd1	100773779	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lipase maturation factor 1	Lmf1	100761934	5.19	5.03	6.52	5.68	4.72	4.89	293.18	298.30	377.59	329.13	291.87	289.75
lipase maturation factor 2	Lmf2	100756570	22.45	19.97	26.42	25.93	20.46	22.46	1720.36	1566.54	2049.44	1996.82	1579.39	1726.33
leishmanolysin-like (metallopeptidase M8 family)	Lmln	100755325	1.24	1.37	1.16	1.30	1.65	1.51	138.24	157.39	132.90	151.82	183.19	170.11
lamin A/C	Lmna	100757316	90.95	93.62	56.89	43.13	33.94	36.35	8893.44	9227.20	5629.14	4282.21	3318.17	3545.20
lamin B1	Lmnb1	103161362	43.14	42.86	36.76	40.99	38.28	39.14	2051.52	2053.34	1799.78	1982.91	1851.59	1870.27
lamin B2	Lmnb2	100766421	19.05	18.75	17.63	11.56	8.92	10.06	1895.05	1864.84	1776.18	1177.46	886.98	1007.57
LIM domain only 1 (rhombotin 1)	Lmo1	100768173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM domain only 2 (rhombotin-like 1)	Lmo2	100773201	3.40	2.70	3.97	3.75	3.04	3.10	107.85	85.10	121.72	120.53	96.25	95.34
LIM domain only 3 (rhombotin-like 2)	Lmo3	100774571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIM domain only 4	Lmo4	100774445	41.98	45.59	35.96	40.42	38.39	38.21	1223.62	1326.80	1052.05	1184.42	1093.98	1076.74
LIM domain 7	Lmo7	100755679	0.26	0.22	0.11	0.12	0.20	0.10	52.41	47.58	26.08	32.45	40.36	22.43
leiomodin 1 (smooth muscle)	Lmod1	100763180	0.02	0.02	0.00	0.00	0.00	0.02	0.76	0.92	1.24	0.00	0.00	0.93
leiomodin 2 (cardiac)	Lmod2	100761449	0.05	0.00	0.00	0.00	0.02	0.00	3.04	0.00	1.24	1.16	2.07	0.00
leiomodin 3 (fetal)	Lmod3	100755909	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
lemur tyrosine kinase 2	Lmtk2	100769717	16.09	15.70	15.46	15.11	15.61	15.60	3683.77	3597.00	3564.79	3479.08	3583.12	3620.91
lemur tyrosine kinase 3	Lmtk3	103164350	1.07	0.49	1.09	0.48	0.64	0.26	26.58	20.13	29.81	8.11	10.35	9.35
LIM homeobox transcription factor 1, alpha	Lmx1a	100760113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukemia NUP98 fusion partner 1	Lnp1	100757035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucyl/cystinyl aminopeptidase	Lnpep	100759698	7.69	8.38	8.92	10.31	11.79	11.46	1295.77	1385.36	1468.15	1693.18	1919.90	1876.82
ligand of numb-protein X 1, E3 ubiquitin protein ligase	Lnx1	100755126	1.39	1.10	1.16	1.39	1.47	1.39	167.10	126.27	146.57	162.25	166.63	164.50
ligand of numb-protein X 2	Lnx2	100758134	4.58	4.72	5.22	4.36	4.34	3.96	668.39	678.04	751.46	621.18	605.47	575.76
loss of heterozygosity, 12, chromosomal region 1	Loh12cr 1	100772441	3.35	3.21	2.21	2.82	3.04	2.59	123.80	120.78	79.49	101.98	115.92	96.27
lon peptidase 1, mitochondrial	Lonp1	100771385	170.27	162.48	201.86	173.08	130.16	152.66	13626.89	13210.34	16378.16	14018.29	10522.71	12135.75
lon peptidase 2, peroxisomal	Lonp2	100773733	0.17	0.17	0.26	0.30	0.19	0.17	20.51	22.88	34.78	40.56	33.12	24.30

LON peptidase N-terminal domain and ring finger 1	Lonrf1	100774743	6.26	5.65	8.46	9.18	7.71	8.35	382.05	349.54	517.95	559.76	465.74	495.37
LON peptidase N-terminal domain and ring finger 2	Lonrf2	100757508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LON peptidase N-terminal domain and ring finger 3	Lonrf3	100770239	3.44	3.42	3.26	3.91	3.81	3.80	654.72	653.33	628.50	747.50	720.35	726.24
lysyl oxidase	Lox	100764517	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
lipoxygenase homology domains 1	Loxhd1	100751061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysyl oxidase-like 1	Loxl1	100757882	23.08	21.50	22.48	15.63	10.35	11.01	1061.08	1020.26	1061.98	748.66	477.13	499.11
lysyl oxidase-like 2	Loxl2	100771343	0.96	1.12	0.79	0.66	0.93	0.97	141.27	172.94	119.24	104.30	143.86	147.68
lysyl oxidase-like 3	Loxl3	100760335	19.46	19.46	29.87	27.95	21.53	23.57	1527.43	1491.50	2296.62	2026.95	1498.66	1686.14
lysyl oxidase-like 4	Loxl4	100761424	17.06	17.83	8.79	7.95	7.86	7.91	2018.10	2128.37	1049.56	945.68	938.73	936.54
lysophosphatidic acid receptor 1	Lpar1	100757522	4.87	4.79	5.86	6.83	5.67	5.36	453.44	446.54	535.34	626.98	523.70	499.11
lysophosphatidic acid receptor 2	Lpar2	100753903	0.08	0.02	0.20	0.00	0.05	0.02	3.80	0.92	8.69	0.00	3.10	0.93
lysophosphatidic acid receptor 3	Lpar3	100759265	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
lysophosphatidic acid receptor 4	Lpar4	100752179	9.20	9.01	9.19	10.79	12.15	11.22	774.73	763.14	781.27	901.64	992.55	938.41
lysophosphatidic acid receptor 5	Lpar5	100765885	0.11	0.18	0.22	0.23	0.19	0.13	6.84	10.07	13.66	13.91	11.38	8.41
lysophosphatidic acid receptor 6	Lpar6	100750873	8.36	8.64	7.70	9.65	10.21	8.91	412.43	428.24	390.02	479.79	501.97	445.84
lysophosphatidylcholine acyltransferase 2	Lpcat2	100772716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysophosphatidylcholine acyltransferase 3	Lpcat3	100768200	29.71	28.05	27.61	28.24	28.07	29.43	2166.21	2042.35	2171.17	2128.94	2049.27	2190.87
lysophosphatidylcholine acyltransferase 4	Lpcat4	100770825	37.79	37.33	39.09	33.11	23.23	26.05	1911.76	1935.30	2034.54	1663.05	1156.08	1280.50
lysophosphatidylglycerol acyltransferase 1	Lpgat1	100751009	13.71	13.60	12.48	13.27	13.12	13.80	2575.60	2547.45	2371.14	2510.22	2471.55	2607.73
latrophilin 1	Lphn1	100760780	0.26	0.26	0.06	0.04	0.01	0.02	64.56	71.37	17.39	18.54	15.52	12.15
latrophilin 2	Lphn2	100769271	13.77	14.08	7.70	8.24	11.20	10.85	2097.85	2144.84	1208.55	1253.95	1717.04	1633.80
latrophilin 3	Lphn3	100757140	0.01	0.01	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
lipin 1	Lpin1	100689029	0.68	0.80	0.95	0.92	0.79	0.84	82.03	97.91	103.09	108.94	89.01	101.88
lipin 2	Lpin2	100769904	8.16	8.78	9.79	10.25	11.09	11.34	1463.63	1562.88	1765.01	1813.71	1970.61	1998.32
lipin 3	Lpin3	100769990	0.39	0.50	0.61	0.64	0.57	0.43	50.89	64.97	80.74	81.12	77.62	57.01
lipoprotein lipase	Lpl	100689191	35.40	38.03	108.28	112.63	103.73	107.67	3900.99	4189.02	11957.57	12305.41	11272.04	11814.22
lactoperoxidase	Lpo	100751941	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
LIM domain containing preferred translocation partner in lipoma	Lpp	100753874	8.34	8.02	7.43	8.92	10.21	9.84	3607.81	3477.13	3249.30	3875.43	4418.36	4303.22
leupaxin	Lpxn	100774643	3.68	4.34	3.49	4.35	4.09	4.65	202.04	228.76	176.38	213.24	217.35	228.99
lecithin retinol acyltransferase (phosphatidylcholine--retinol O-acyltransferase)	Lrat	100769559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LPS-responsive vesicle trafficking, beach and anchor containing	Lrba	100762923	6.79	7.02	6.79	7.91	9.36	8.70	1956.57	2015.82	1971.19	2256.42	2666.12	2458.18
leucine-rich repeats and calponin homology (CH) domain containing 2	Lrch2	100755198	0.04	0.06	0.02	0.03	0.03	0.04	6.08	7.32	3.73	3.48	4.14	5.61
leucine-rich repeats and calponin homology (CH) domain containing 3	Lrch3	100764207	7.17	8.00	6.92	7.38	8.12	8.30	608.39	674.38	561.42	614.23	683.09	686.98
leucine-rich repeats and calponin homology (CH) domain containing 4	Lrch4	100751679	14.85	13.91	12.65	11.27	8.85	9.33	1086.90	1023.01	960.13	843.69	675.85	715.96
leucine rich colipase-like 1	Lrcol1	100774383	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	1.16	0.00	1.87
leucine rich repeat and fibronectin type III domain containing 1	Lrfn1	100772066	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

leucine rich repeat and fibronectin type III domain containing 2	Lrfn2	100772089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat and fibronectin type III domain containing 4	Lrfn4	100759646	23.96	22.28	22.76	11.14	6.31	6.64	1670.23	1570.20	1599.81	777.64	446.08	472.94
leucine rich repeat and fibronectin type III domain containing 5	Lrfn5	100765666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich alpha-2-glycoprotein 1	Lrg1	100768811	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeats and guanylate kinase domain containing	Lrguk	100750979	0.17	0.11	0.07	0.18	0.29	0.18	15.19	10.98	9.94	16.22	30.01	15.89
ligand dependent nuclear receptor interacting factor 1	Lrif1	100773363	9.47	9.70	9.84	9.85	12.01	10.94	634.97	672.55	654.58	673.33	806.25	723.43
leucine-rich repeats and immunoglobulin-like domains 1	Lrig1	100751692	8.50	8.49	9.21	8.95	7.58	7.29	1149.94	1146.54	1250.78	1216.87	1027.74	987.95
leucine-rich repeats and immunoglobulin-like domains 2	Lrig2	100767403	4.81	5.00	5.61	6.36	7.11	7.31	572.69	598.43	695.57	756.77	845.58	869.24
leucine-rich repeats and immunoglobulin-like domains 3	Lrig3	100766677	15.90	15.38	11.45	9.59	7.46	6.99	1991.51	1934.38	1453.24	1201.80	924.24	874.85
leucine-rich repeat, immunoglobulin-like and transmembrane domains 1	Lrit1	100753339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat, immunoglobulin-like and transmembrane domains 2	Lrit2	100754806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeat, immunoglobulin-like and transmembrane domains 3	Lrit3	100761629	0.03	0.04	0.03	0.05	0.00	0.00	0.00	2.75	0.00	1.16	0.00	0.00
lymphoid-restricted membrane protein	Lrmp	100765506	0.02	0.05	0.00	0.00	0.03	0.02	1.52	1.83	1.24	0.00	2.07	3.74
low density lipoprotein receptor-related protein 1	Lrp1	100754427	6.41	6.64	7.30	6.54	4.42	4.93	2829.28	2962.88	3239.36	2866.01	1955.09	2203.95
low density lipoprotein receptor-related protein 10	Lrp10	100768541	55.17	51.59	67.37	53.36	41.53	45.59	4018.72	3734.25	4912.45	3906.72	3010.78	3312.47
low density lipoprotein receptor-related protein 11	Lrp11	100762016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
low density lipoprotein receptor-related protein 2	Lrp2	100772030	0.03	0.04	0.00	0.02	0.03	0.03	15.95	17.39	0.00	9.27	14.49	12.15
LRP2 binding protein	Lrp2bp	100769221	0.06	0.10	0.06	0.08	0.18	0.09	4.56	7.32	3.73	10.43	14.49	14.02
low density lipoprotein receptor-related protein 3	Lrp3	100769612	3.32	2.59	2.87	1.30	0.84	1.17	138.24	109.80	118.00	64.90	41.40	63.56
low density lipoprotein receptor-related protein 4	Lrp4	100762775	4.74	4.51	7.19	7.44	6.76	7.50	1155.26	1123.66	1765.01	1813.71	1657.01	1820.74
low density lipoprotein receptor-related protein 5	Lrp5	100763041	15.10	14.19	25.41	22.77	17.24	18.99	2430.53	2290.33	4133.66	3686.52	2749.96	3044.22
low density lipoprotein receptor-related protein 6	Lrp6	100772150	12.70	11.78	12.60	13.77	14.06	13.57	3439.19	3184.32	3440.58	3717.81	3752.86	3673.25
low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	Lrp8	100772495	4.25	4.38	5.36	6.38	6.63	5.92	1212.22	1248.11	1522.80	1796.33	1823.65	1640.35
low density lipoprotein receptor-related protein associated protein 1	Lrpap1	100766187	129.91	128.80	123.24	125.31	129.55	140.09	5357.03	5359.35	5139.76	5139.81	5290.85	5730.46
leucine-rich pentatricopeptide repeat containing	Lrpprc	100761521	71.43	68.80	77.37	85.70	82.34	80.98	9766.91	9636.22	10839.69	11796.65	11304.12	10973.02
leucine rich repeat protein 1	Lrr1	100752788	5.70	5.58	7.54	6.61	8.40	7.34	237.74	235.16	289.41	271.19	339.48	312.18
leucine rich repeat containing 1	Lrrc1	100751156	9.83	10.21	8.56	9.06	8.60	8.49	843.09	884.84	751.46	757.93	756.57	740.26
leucine rich repeat containing 10	Lrrc10	100758968	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 10B	Lrrc10b	100771537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

leucine rich repeat containing 14	Lrrc14	100759919	5.74	5.23	6.32	5.69	5.18	5.62	365.34	331.24	397.47	367.38	338.44	351.44
leucine rich repeat containing 14B	Lrrc14b	100751319	0.14	0.10	0.09	0.08	0.11	0.11	18.99	14.64	11.18	11.59	14.49	12.15
leucine rich repeat containing 15	Lrrc15	100770384	0.03	0.06	0.00	0.00	0.00	0.00	1.52	2.75	0.00	0.00	0.00	0.00
leucine rich repeat containing 16A	Lrrc16a	100757310	11.74	11.97	9.69	10.03	9.49	10.02	1811.50	1872.16	1480.57	1523.98	1467.61	1500.14
leucine rich repeat containing 16B	Lrrc16b	100771002	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 17	Lrrc17	100759634	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 18	Lrrc18	100771155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 19	Lrrc19	100765431	0.04	0.10	0.07	0.05	0.07	0.04	5.32	10.98	7.45	9.27	10.35	11.22
leucine rich repeat containing 2	Lrrc2	100767975	1.12	0.79	1.15	1.53	1.23	1.08	233.94	228.76	265.81	307.11	285.66	328.07
leucine rich repeat containing 20	Lrrc20	100762897	8.06	8.66	8.75	8.53	8.34	8.93	623.58	672.55	683.15	665.22	637.55	683.24
leucine rich repeat containing 23	Lrrc23	100758129	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 24	Lrrc24	100759630	2.51	2.80	2.53	1.42	1.12	0.91	221.03	236.99	223.58	157.61	122.13	147.68
leucine rich repeat containing 25	Lrrc25	100768903	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
leucine rich repeat containing 26	Lrrc26	100771542	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 27	Lrrc27	100772130	0.02	0.06	0.03	0.00	0.00	0.00	1.52	3.66	1.24	0.00	0.00	0.93
leucine rich repeat containing 28	Lrrc28	100769663	22.89	28.57	23.51	22.52	18.98	22.61	481.55	500.52	439.70	419.53	400.54	403.78
leucine rich repeat containing 29	Lrrc29	100760321	11.23	15.52	11.62	12.30	14.49	13.76	160.26	215.03	156.50	165.73	167.67	166.37
leucine rich repeat containing 3	Lrrc3	100761264	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 30	Lrrc30	100762333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 31	Lrrc31	100770060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
leucine rich repeat containing 32	Lrrc32	100774110	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 34	Lrrc34	100767765	0.04	0.07	0.03	0.09	0.00	0.00	1.52	2.75	4.97	3.48	2.07	5.61
leucine rich repeat containing 36	Lrrc36	100761482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
leucine rich repeat containing 39	Lrrc39	100767743	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	1.24	0.00	1.03	0.00
leucine rich repeat containing 3B	Lrrc3b	100769466	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 4	Lrrc4	103159912	0.01	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 40	Lrrc40	100750389	9.06	9.53	10.84	11.89	13.26	12.74	878.79	931.50	1047.08	1150.81	1314.43	1226.29
leucine rich repeat containing 41	Lrrc41	100772217	24.74	24.80	25.55	22.22	16.03	18.87	1833.53	1855.69	1920.27	1654.94	1228.53	1380.51
leucine rich repeat containing 42	Lrrc42	100764609	34.87	35.12	35.36	37.13	40.17	40.21	1490.22	1515.30	1555.09	1574.97	1663.22	1696.43
leucine rich repeat containing 43	Lrrc43	100754484	0.60	0.70	0.59	0.42	0.69	0.65	75.95	75.95	50.93	52.15	46.57	56.08
leucine rich repeat containing 45	Lrrc45	100769540	13.80	13.64	6.47	5.54	3.50	3.27	1064.11	1045.88	495.59	426.48	280.48	252.36
leucine rich repeat containing 46	Lrrc46	100754208	2.27	2.28	1.33	1.37	1.48	1.33	107.85	107.06	59.62	63.74	69.34	63.56
leucine rich repeat containing 47	Lrrc47	100774349	38.67	35.52	38.34	30.90	25.82	28.95	2068.23	1944.45	1988.58	1554.11	1250.26	1393.59
leucine rich repeat containing 48	Lrrc48	100754466	0.16	0.22	0.14	0.19	0.30	0.42	13.67	14.64	9.94	12.75	17.59	25.24
leucine rich repeat containing 49	Lrrc49	100752897	5.78	5.79	6.00	5.96	6.24	6.29	511.17	503.27	521.68	536.58	522.67	517.81
leucine rich repeat containing 4B	Lrrc4b	100758215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 4C	Lrrc4c	100765202	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
Leucine-rich repeat-containing protein 51	Lrrc51	100750631	11.32	10.68	7.61	8.04	8.23	9.14	282.55	270.85	203.70	220.19	212.17	247.69
leucine rich repeat containing 52	Lrrc52	100761858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 55	Lrrc55	100759822	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 56	Lrrc56	100774031	0.45	0.49	0.56	0.60	0.27	0.40	60.76	54.90	62.10	54.47	45.54	58.88
leucine rich repeat containing 57	Lrrc57	100757487	14.08	14.80	15.61	16.77	21.12	19.15	751.18	771.37	809.84	847.17	1063.97	961.78
leucine rich repeat containing 58	Lrrc58	100768513	40.25	40.98	40.96	45.40	51.29	51.51	7454.88	7588.37	7643.80	8449.68	9465.98	9595.32

leucine rich repeat containing 59	Lrrc59	100758748	324.70	321.64	162.63	151.04	151.08	160.80	12738.23	12796.74	6221.61	4964.81	4416.29	4682.70
leucine rich repeat containing 61	Lrrc61	100765423	5.48	4.62	2.98	1.82	1.32	1.72	213.43	182.09	116.76	75.33	50.71	70.10
leucine rich repeat containing 63	Lrrc63	100755458	0.02	0.03	0.04	0.00	0.03	0.00	2.28	1.83	1.24	1.16	1.03	0.93
leucine rich repeat containing 66	Lrrc66	100756871	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.87
leucine rich repeat containing 69	Lrrc69	100767187	0.21	0.12	0.13	0.00	0.07	0.13	8.35	6.41	3.73	2.32	4.14	6.54
leucine rich repeat containing 7	Lrrc7	100774869	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 71	Lrrc71	100761163	3.09	3.27	3.40	2.97	2.49	3.19	269.64	273.60	301.83	253.80	257.71	266.38
leucine rich repeat containing 72	Lrrc72	100760124	0.00	0.00	0.00	0.00	0.00	0.08	0.76	0.00	1.24	0.00	1.03	1.87
leucine rich repeat containing 73	Lrrc73	100757911	0.35	0.26	0.31	0.08	0.22	0.30	14.43	10.98	16.15	5.79	6.21	9.35
leucine rich repeat containing 74	Lrrc74	100765622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat containing 75A	Lrrc75a	100761414	5.34	5.04	5.93	5.20	5.09	4.82	866.63	885.75	1117.88	1076.64	947.01	930.00
leucine rich repeat containing 75B	Lrrc75b	100763516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine rich repeat containing 8 family, member A	Lrrc8a	100768968	10.82	11.02	11.04	10.86	8.44	9.15	1107.41	1127.32	1132.78	1113.72	882.84	958.04
leucine rich repeat containing 8 family, member B	Lrrc8b	100765646	3.34	3.03	4.18	5.05	5.43	5.41	385.85	355.95	489.38	585.25	631.34	634.64
leucine rich repeat containing 8 family, member C	Lrrc8c	100765936	10.17	10.24	13.39	15.07	14.52	14.58	1965.69	1981.96	2607.14	2922.80	2787.22	2843.27
leucine rich repeat containing 8 family, member D	Lrrc8d	100766233	13.85	14.64	23.25	24.83	24.97	24.18	1340.59	1420.13	2265.57	2398.96	2392.89	2344.15
leucine rich repeat containing 8 family, member E	Lrrc8e	100754708	4.39	4.81	5.12	4.75	4.75	4.95	473.95	506.93	549.00	505.29	495.76	528.09
leucine rich repeat and coiled-coil centrosomal protein 1	Lrrcc1	100773971	1.47	1.52	1.35	1.75	2.38	1.91	148.11	158.30	146.57	178.47	245.29	200.95
leucine-rich repeats and death domain containing 1	Lrrd1	100758524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00
leucine rich repeat (in FLII) interacting protein 1	Lrrfip1	100689055	24.11	24.36	18.78	21.04	24.37	21.99	2425.21	2497.13	2001.00	2270.32	2516.05	2334.80
leucine rich repeat (in FLII) interacting protein 2	Lrrfip2	100768841	64.06	62.06	66.72	72.09	71.64	70.97	2552.05	2451.37	2612.11	2752.43	2798.60	2726.43
leucine-rich repeats and IQ motif containing 1	Lrriq1	103161885	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeats and IQ motif containing 3	Lrriq3	100769397	21.62	22.86	25.31	27.63	32.21	29.20	1418.06	1474.12	1630.86	1745.33	2056.52	1861.86
leucine-rich repeats and IQ motif containing 4	Lrriq4	100767470	0.08	0.14	0.16	0.25	0.13	0.34	6.84	10.07	9.94	20.86	15.52	24.30
leucine-rich repeat kinase 1	Lrrk1	100768506	5.48	5.03	4.88	4.86	4.58	4.68	1176.53	1087.06	1066.95	1055.78	999.80	1014.12
leucine-rich repeat kinase 2	Lrrk2	100768191	3.47	3.64	3.32	3.90	4.68	4.30	856.76	892.16	839.65	968.86	1179.88	1069.26
leucine rich repeat neuronal 1	Lrrn1	100762997	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat neuronal 2	Lrrn2	100752513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat neuronal 3	Lrrn3	100755702	1.92	1.79	1.53	1.87	2.13	2.14	200.52	189.41	161.47	200.49	220.45	225.26
leucine rich repeat neuronal 4	Lrrn4	100772398	0.09	0.18	0.05	0.05	0.06	0.10	8.35	14.64	6.21	4.64	5.17	7.48
leucine rich repeat transmembrane neuronal 1	Lrrtm1	100766999	0.29	0.28	0.00	0.07	0.04	0.02	17.47	14.64	0.00	3.48	2.07	0.93
leucine rich repeat transmembrane neuronal 2	Lrrtm2	100754686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat transmembrane neuronal 3	Lrrtm3	100759319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine rich repeat transmembrane neuronal 4	Lrrtm4	100767641	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00

leucine rich repeat and sterile alpha motif containing 1	Lrsam1	100758009	4.64	4.27	4.93	4.43	4.34	4.44	457.24	420.92	491.87	420.69	436.76	438.36
leucine-rich repeats and transmembrane domains 1	Lrtm1	103159741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine-rich repeats and transmembrane domains 2	Lrtm2	100752413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
leucine-rich repeats and WD repeat domain containing 1	Lrwd1	100766394	2.43	2.61	2.91	2.60	1.68	2.06	152.67	176.60	196.25	172.68	123.16	140.20
limbic system-associated membrane protein	Lsamp	100751365	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
large 60S subunit nuclear export GTPase 1	Lsg1	100773753	65.77	64.24	70.91	70.28	65.09	70.11	4430.39	4383.93	4816.81	4694.78	4370.75	4652.79
LSM1, U6 small nuclear RNA associated	Lsm1	100771944	31.46	29.41	31.00	30.45	33.75	34.70	1075.51	1005.62	1073.16	1023.33	1147.80	1170.21
LSM10, U7 small nuclear RNA associated	Lsm10	100759318	18.57	18.64	22.15	21.63	19.49	20.76	283.31	289.15	332.88	325.66	297.04	309.38
LSM11, U7 small nuclear RNA associated	Lsm11	100763675	1.35	1.28	1.56	1.55	1.65	1.56	136.72	129.02	149.05	147.18	160.42	152.35
LSM12 homolog (S. cerevisiae)	Lsm12	100761943	78.01	77.06	60.23	60.40	60.51	64.98	2940.18	2917.13	2321.46	2298.14	2235.57	2424.53
LSM14A, SCD6 homolog A (S. cerevisiae)	Lsm14a	100765260	31.90	33.07	30.15	29.06	29.41	29.92	2489.77	2611.51	2389.78	2324.79	2327.68	2331.07
LSM14B, SCD6 homolog B (S. cerevisiae)	Lsm14b	100769638	13.76	13.14	12.31	11.75	14.68	15.77	1138.55	1087.06	996.15	946.84	1115.72	1239.37
LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm2	100769701	45.47	44.15	45.91	33.43	30.20	33.88	811.95	791.50	803.63	580.62	538.19	586.97
LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm3	100765189	72.12	71.70	62.57	69.65	69.10	65.46	1186.40	1170.33	1004.85	1109.09	1117.79	1047.76
LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm4	100769464	50.25	43.88	46.32	33.00	26.22	32.02	1170.45	1042.22	1131.54	917.86	756.57	832.79
LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm5	100764270	46.31	43.85	57.95	58.05	80.82	65.01	615.23	648.76	755.19	768.36	1006.01	812.23
LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm6	100769852	174.14	167.08	171.75	185.19	176.13	180.49	2254.31	2175.95	2187.31	2301.61	2222.12	2265.64
LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm7	100772252	89.21	84.60	73.04	64.07	58.52	63.11	893.22	863.79	710.47	625.82	598.22	615.01
LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae)	Lsm8	100756548	48.42	46.06	46.23	48.49	54.88	52.41	1598.07	1585.75	1591.11	1656.10	1847.45	1730.07
leucine-rich single-pass membrane protein 1	Lsmem1	100770911	0.15	0.27	0.16	0.17	0.25	0.30	6.08	10.98	7.45	6.95	9.31	13.09
leucine-rich single-pass membrane protein 2	Lsmem2	100753916	14.42	14.30	13.64	12.78	12.39	12.63	906.89	882.09	865.73	821.67	815.57	821.57
lymphocyte-specific protein 1	Lsp1	100767209	0.05	0.04	0.00	0.05	0.04	0.04	2.28	1.83	0.00	2.32	2.07	1.87
lipolysis stimulated lipoprotein receptor	Lsr	100757093	0.03	0.02	0.00	0.00	0.00	0.02	1.52	4.58	1.24	0.00	1.03	0.93
lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	Lss	100753498	6.68	6.19	13.54	13.93	14.54	15.31	597.76	542.61	1196.13	1251.63	1302.01	1368.36
leukocyte specific transcript 1	Lst1	100772577	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphotoxin alpha	Lta	100765068	0.00	0.00	0.09	0.09	0.00	0.07	0.00	0.00	3.73	2.32	0.00	1.87
leukotriene A4 hydrolase	Lta4h	100753500	37.37	41.49	36.77	37.83	38.35	38.15	2173.04	2412.94	2156.26	2170.66	2235.57	2191.80
lymphotoxin beta (TNF superfamily, member 3)	Ltb	100764484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leukotriene B4 receptor	Ltb4r	100769281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
leukotriene B4 receptor 2	Ltb4r2	100756925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

latent transforming growth factor beta binding protein 1	Ltbp1	100764759	166.84	166.67	311.80	330.32	348.25	351.92	12173.14	12021.71	22808.44	24355.86	26088.90	26155.80
latent transforming growth factor beta binding protein 2	Ltbp2	100772191	1.37	1.49	1.23	1.19	1.13	1.06	287.11	320.26	257.11	261.92	244.26	224.32
latent transforming growth factor beta binding protein 3	Ltbp3	100772206	9.56	8.50	9.04	7.20	7.77	8.37	1205.39	1062.35	1134.03	895.85	950.12	1000.10
latent transforming growth factor beta binding protein 4	Ltbp4	100769492	0.05	0.04	0.00	0.00	0.00	0.00	13.67	11.90	7.45	2.32	4.14	0.93
lymphotoxin beta receptor (TNFR superfamily, member 3)	Ltbr	100751411	40.43	37.09	38.06	34.65	24.43	27.39	2307.48	2150.33	2197.25	1965.53	1393.09	1561.83
lactotransferrin	Ltf	100768263	0.03	0.08	0.00	0.02	0.00	0.02	2.28	8.24	1.24	3.48	3.10	0.93
leukocyte receptor tyrosine kinase	Ltk	100772620	0.06	0.02	0.02	0.02	0.03	0.02	5.32	1.83	2.48	4.64	3.10	4.67
listerin E3 ubiquitin protein ligase 1	Ltn1	100760736	10.93	11.35	12.06	13.14	14.92	14.36	2311.28	2446.80	2598.45	2768.66	3159.81	3039.55
LTV1 ribosome biogenesis factor	Ltv1	100756424	77.41	78.93	75.96	83.23	78.69	78.00	4065.81	4156.08	3989.58	4339.00	4131.67	4092.92
LUC7-like (S. cerevisiae)	Luc7l	100768915	19.63	19.46	17.96	17.83	17.40	17.58	3686.80	3693.99	3466.66	3367.82	3246.75	3244.24
LUC7-like 3 (S. cerevisiae)	Luc7l3	100767266	41.48	42.24	27.35	28.04	28.89	26.96	2242.16	2301.31	1440.82	1482.26	1525.57	1398.27
lumican	Lum	100755861	0.00	0.00	0.02	0.00	0.00	0.04	0.00	0.00	1.24	0.00	0.00	2.80
leucine rich adaptor protein 1	Lurap1	100773200	0.02	0.03	0.04	0.14	0.06	0.05	2.28	1.83	6.21	4.64	3.10	1.87
leucine rich adaptor protein 1-like	Lurap1l	100752940	2.59	2.85	2.42	2.56	2.49	2.08	117.73	130.85	111.79	115.89	113.85	92.53
leucine zipper protein 1	Luzp1	100767278	10.97	12.09	12.16	13.14	13.55	13.10	1422.62	1563.79	1596.08	1693.18	1746.02	1719.79
leucine zipper protein 2	Luzp2	100759049	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
latexin	Lxn	100757922	9.25	9.58	8.34	11.15	10.99	10.76	262.80	282.75	245.93	311.75	315.67	303.77
lymphocyte antigen 6 complex, locus D	Ly6d	100774259	0.23	0.00	0.00	0.00	0.00	0.10	3.04	1.83	0.00	0.00	0.00	0.00
lymphocyte antigen 6 complex, locus E	Ly6e	100768302	93.29	89.39	99.33	93.83	86.81	96.04	4572.43	4383.01	4916.18	4574.26	4262.07	4728.49
lymphocyte antigen 6 complex, locus G5B	Ly6g5b	100771711	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
lymphocyte antigen 6 complex, locus G5C	Ly6g5c	103160070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphocyte antigen 6 complex, locus G6C	Ly6g6c	100762454	0.29	0.40	0.07	0.00	0.00	0.05	6.08	9.15	1.24	0.00	1.03	0.93
lymphocyte antigen 6 complex, locus G6D	Ly6g6d	100762743	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphocyte antigen 6 complex, locus G6F	Ly6g6f	100771134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphocyte antigen 86	Ly86	100765204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lymphocyte antigen 96	Ly96	100689342	4.92	6.19	4.85	5.74	6.48	7.06	63.80	74.12	67.07	67.22	79.69	87.86
Ly1 antibody reactive	Lyar	100773375	57.23	56.57	54.92	63.28	55.93	50.45	2428.25	2385.49	2314.01	2585.55	2337.00	2102.07
lysozyme G-like 1	Lyg1	100762750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysozyme G-like 2	Lyg2	100763043	0.00	0.08	0.00	0.05	0.00	0.12	2.28	4.58	1.24	4.64	4.14	6.54
lymphoblastic leukemia associated hematopoiesis regulator 1	Lyl1	100757879	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	2.48	0.00	0.00	0.00
v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	Lyn	100754828	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
LY6/PLAUR domain containing 1	Lypd1	100759295	0.68	0.82	0.80	0.47	0.14	0.37	34.18	29.28	16.15	25.50	13.45	27.11
LY6/PLAUR domain containing 2	Lypd2	100767315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LY6/PLAUR domain containing 3	Lypd3	100770368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LY6/PLAUR domain containing 4	Lypd4	100759684	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
LY6/PLAUR domain containing 5	Lypd5	100768071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LY6/PLAUR domain containing 6	Lypd6	100751619	0.00	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
LY6/PLAUR domain containing 6B	Lypd6b	100768780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LY6/PLAUR domain containing 8	Lypd8	100771330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysophospholipase I	Lypla1	100755288	13.19	12.65	11.30	12.52	12.03	13.82	390.40	387.06	353.99	387.08	383.98	423.41
lysophospholipase II	Lypla2	100759021	17.06	16.67	18.78	13.91	9.14	10.62	675.23	665.23	748.98	555.12	390.19	432.75
lysophospholipase-like 1	Lyplal1	100759088	23.43	23.88	24.81	26.29	29.37	26.01	854.48	881.18	915.42	934.09	1054.65	951.49
LYR motif containing 1	Lyrm1	100752175	6.21	6.17	6.28	7.09	7.35	6.55	263.56	258.04	258.35	288.57	292.90	272.92
LYR motif containing 2	Lyrm2	100772894	15.00	15.02	13.60	13.79	16.27	16.60	1080.06	1105.36	1012.30	1018.69	1188.16	1217.87
LYR motif containing 4	Lyrm4	100764324	71.67	69.25	76.44	86.60	89.41	83.16	933.47	939.74	999.88	1069.68	1129.17	1046.83
LYR motif containing 5	Lyrm5	100764928	9.94	9.73	10.08	11.72	14.11	14.10	396.48	408.10	417.34	472.84	590.98	625.29
LYR motif containing 7	Lyrm7	100758737	16.25	16.01	15.30	14.47	16.36	17.69	337.99	324.84	314.25	274.66	320.85	336.48
LYR motif containing 9	Lyrm9	100759773	1.26	1.14	1.51	1.45	1.55	1.17	62.28	60.39	67.07	62.58	70.38	54.21
LysM, putative peptidoglycan-binding, domain containing 1	Lysmd1	100768796	9.70	9.25	11.89	10.40	10.46	9.56	534.72	513.33	671.97	567.87	542.33	515.00
LysM, putative peptidoglycan-binding, domain containing 2	Lysmd2	100752262	20.61	21.55	21.98	23.69	23.00	22.15	500.54	516.08	524.16	564.39	555.79	528.09
LysM, putative peptidoglycan-binding, domain containing 3	Lysmd3	100767184	7.50	7.60	6.60	7.93	8.95	8.29	635.73	659.74	565.15	672.17	780.38	751.47
LysM, putative peptidoglycan-binding, domain containing 4	Lysmd4	100767361	6.83	7.13	7.39	7.45	6.61	7.35	290.14	307.45	316.73	316.39	299.11	332.74
lysosomal trafficking regulator	Lyst	100768280	1.12	1.00	0.77	1.02	1.31	1.15	454.96	414.51	316.73	418.37	534.05	459.86
lymphatic vessel endothelial hyaluronan receptor 1	Lyve1	100759540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysozyme	Lyz	100770686	0.12	0.19	0.19	0.43	0.32	0.26	0.76	0.92	1.24	0.00	4.14	0.00
lysozyme-like 4	Lyzl4	100768414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
lysozyme-like 6	Lyzl6	100766204	0.00	0.45	0.00	0.00	1.09	1.57	0.00	0.92	2.48	1.16	5.17	3.74
leucine zipper and CTNNBIP1 domain containing	Lzic	100770661	23.55	22.43	21.05	21.77	22.73	25.56	712.45	720.13	705.51	709.26	746.23	783.25
leucine zipper transcription factor-like 1	Lztfl1	100760415	8.84	9.19	8.62	9.59	12.83	11.59	482.31	505.10	479.45	528.47	678.95	635.58
leucine-zipper-like transcription regulator 1	Lztr1	100752820	16.60	15.51	24.22	24.33	24.14	25.46	2182.16	2027.71	3172.29	3181.24	3081.15	3304.99
leucine zipper, putative tumor suppressor 1	Lzts1	100773219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
leucine zipper, putative tumor suppressor 2	Lzts2	100757480	33.96	32.42	31.57	22.82	15.01	17.35	2814.85	2706.67	2646.89	1898.31	1235.77	1440.33
meiosis 1 associated protein	M1ap	100759755	0.08	0.07	0.00	0.02	0.00	0.04	10.63	6.41	1.24	4.64	2.07	3.74
mannose-6-phosphate receptor (cation dependent)	M6pr	100759169	41.83	39.25	41.55	40.42	41.69	44.97	2615.85	2473.34	2630.74	2524.13	2588.50	2759.14
MYCBP-associated, testis expressed 1	Maats1	100759453	0.01	0.00	0.00	0.02	0.03	0.00	0.76	0.00	0.00	1.16	2.07	0.93
mab-21-like 1 (C. elegans)	Mab21l1	100769393	0.02	0.03	0.03	0.03	0.00	0.00	0.76	2.75	1.24	1.16	0.00	0.00
mab-21-like 2 (C. elegans)	Mab21l2	100763211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mab-21-like 3 (C. elegans)	Mab21l3	100774678	0.17	0.29	0.06	0.05	0.13	0.11	25.06	34.77	8.69	5.79	15.52	14.02
metastasis associated in colon cancer 1	Macc1	100753453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACRO domain containing 1	Macrod 1	100759258	23.30	19.03	28.73	21.69	13.67	16.12	678.27	581.05	890.58	665.22	466.78	533.70

MACRO domain containing 2	Macrod 2	103160864	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	1.24	0.00	0.00	1.87
MAD1 mitotic arrest deficient-like 1 (yeast)	Mad1l1	100689352	28.89	29.24	32.65	28.62	22.23	25.58	2032.53	2059.74	2305.31	1996.82	1634.24	1838.50
MAD2 mitotic arrest deficient-like 1 (yeast)	Mad2l1	100753081	68.25	67.75	65.40	69.18	74.81	74.12	1920.87	1949.94	1936.41	2004.93	2226.26	2209.56
MAD2L1 binding protein	Mad2l1b p	100758818	11.50	10.96	11.26	10.33	8.70	9.36	391.16	379.74	388.77	351.15	300.15	320.59
MAD2 mitotic arrest deficient-like 2 (yeast)	Mad2l2	100761766	37.52	39.41	42.14	36.76	30.91	30.86	1312.48	1410.07	1519.07	1263.22	1114.68	1064.59
mucosal vascular addressin cell adhesion molecule 1	Madcam 1	100750395	0.02	0.04	0.09	0.03	0.05	0.04	4.56	2.75	4.97	4.64	5.17	6.54
MAP-kinase activating death domain	Madd	100757666	6.94	6.50	7.72	7.75	7.81	7.26	1195.51	1129.15	1322.82	1315.37	1338.24	1246.85
macrophage erythroblast attacher	Maea	100770544	51.25	49.61	50.35	45.35	37.75	42.57	3275.89	3144.97	3198.37	2876.44	2410.48	2728.30
maelstrom spermatogenic transposon silencer	Mael	100768422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAF1 homolog (S. cerevisiae)	Maf1	100765064	72.79	74.30	94.63	93.57	79.38	91.13	3188.55	3274.91	4261.60	4110.69	3440.29	3928.42
v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog B	Mafb	100751374	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog F	Maff	100766059	18.21	17.73	17.82	18.19	16.89	19.41	957.78	932.42	937.78	929.45	896.30	1002.90
v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog G	Mafg	100767634	51.90	50.73	23.05	21.10	14.84	16.91	7214.10	7056.74	3239.36	2944.82	2047.20	2366.58
v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K	Mafk	100763840	27.46	26.73	26.25	23.28	20.42	24.67	1975.56	1931.64	1899.15	1659.57	1440.70	1755.31
MAGE-like 2	Magel2	100769128	0.01	0.00	0.02	0.00	0.01	0.03	3.04	0.00	2.48	0.00	1.03	2.80
membrane associated guanylate kinase, WW and PDZ domain containing 1	Magi1	100768378	2.80	2.73	3.22	3.40	3.13	2.96	408.63	404.44	481.93	490.22	466.78	421.54
membrane associated guanylate kinase, WW and PDZ domain containing 2	Magi2	100759337	0.80	0.65	1.23	1.21	1.23	1.23	89.63	75.03	131.66	133.28	128.34	131.79
membrane associated guanylate kinase, WW and PDZ domain containing 3	Magi3	100763218	5.42	5.50	4.65	5.41	5.65	5.25	774.73	791.50	673.21	793.86	817.64	753.34
MAGI family member, X-linked	Magix	100759147	0.03	0.00	0.00	0.00	0.00	0.04	3.80	2.75	0.00	1.16	2.07	1.87
mago-nashi homolog, proliferation-associated (Drosophila)	Magoh	100766467	122.94	133.67	128.77	129.86	144.59	135.25	2004.42	2214.38	2115.27	2039.70	2314.23	2134.79
mago-nashi homolog B (Drosophila)	Magohb	100772672	32.89	40.39	35.61	35.45	37.15	39.77	664.60	797.91	694.33	686.08	727.60	740.26
magnesium transporter 1	Magt1	100764570	18.65	19.95	22.42	24.02	26.37	26.26	1146.90	1257.26	1398.59	1466.03	1635.28	1602.02
male germ cell-associated kinase	Mak	100762243	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.93
MAK16 homolog (S. cerevisiae)	Mak16	100760844	94.00	101.31	95.13	95.10	96.94	100.86	3157.40	3450.59	3185.95	3176.60	3251.93	3319.95
mal, T-cell differentiation protein	Mal	100773093	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mal, T-cell differentiation protein 2	Mal2	100755368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mal, T-cell differentiation protein-like	Mall	100772805	0.00	0.00	0.00	0.00	0.00	0.00	0.76	2.75	2.48	0.00	0.00	0.93
MAM and LDL receptor class A domain containing 1	Malrd1	100751646	0.56	0.50	0.15	0.14	0.16	0.22	113.17	106.14	31.05	31.29	33.12	37.39
mitochondrial assembly of ribosomal large subunit 1	Malsu1	100764085	51.26	51.88	54.04	57.20	55.67	55.39	571.93	569.15	570.12	610.75	582.70	587.91
mucosa associated lymphoid tissue lymphoma translocation gene 1	Malt1	100770557	1.41	1.28	1.52	1.87	1.90	1.94	110.89	106.14	120.48	149.50	156.28	152.35

MAM domain containing 4	Mamdc4	100761809	2.60	2.28	3.29	2.53	1.78	1.85	615.99	560.92	746.49	618.86	476.09	522.48
mastermind-like 1 (Drosophila)	Maml1	100768930	8.15	7.53	8.45	8.02	6.64	6.24	1001.83	942.48	1050.81	1003.62	822.81	793.53
mastermind-like 2 (Drosophila)	Maml2	100762611	3.47	3.59	4.08	4.12	4.25	3.97	369.14	388.89	448.39	450.82	470.92	446.77
mastermind-like 3 (Drosophila)	Maml3	100767462	2.96	3.04	2.64	2.96	3.07	2.78	442.05	452.03	399.95	436.91	458.50	416.86
mastermind-like domain containing 1	Mamld1	100761274	1.83	2.08	1.98	2.08	2.04	1.82	148.87	167.45	157.75	172.68	157.32	149.55
MEF2 activating motif and SAP domain containing transcriptional regulator	Mamstr	100751477	0.02	0.00	0.04	0.03	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
mannosidase, alpha, class 1A, member 1	Man1a1	100767553	13.49	14.31	5.10	5.78	5.97	5.46	1648.96	1733.07	628.50	699.99	716.21	644.92
mannosidase, alpha, class 1A, member 2	Man1a2	100770527	24.25	24.92	24.86	28.46	28.89	27.97	3982.26	4114.91	4136.15	4653.06	4706.08	4610.73
mannosidase, alpha, class 1C, member 1	Man1c1	100761494	3.84	4.27	4.26	4.31	3.94	3.64	386.61	427.32	437.21	418.37	402.61	361.72
mannosidase, alpha, class 2A, member 1	Man2a1	100757006	28.49	28.91	33.03	36.79	41.45	38.45	5101.07	5185.50	5953.32	6581.51	7348.40	6882.91
mannosidase, alpha, class 2A, member 2	Man2a2	100764014	9.94	9.76	11.05	10.25	9.33	10.29	1354.26	1331.37	1500.44	1405.77	1299.94	1417.89
mannosidase, alpha, class 2B, member 1	Man2b1	100766505	15.46	15.31	20.65	19.38	16.51	17.74	1505.41	1515.30	2034.54	1878.61	1633.21	1688.01
mannosidase, alpha, class 2B, member 2	Man2b2	100770115	28.56	27.84	29.71	29.75	25.78	27.83	2746.49	2728.63	2923.87	2890.35	2500.53	2691.85
mannosidase, alpha, class 2C, member 1	Man2c1	100761822	58.75	58.14	64.89	53.06	38.91	45.02	6178.09	6124.32	6727.14	5455.04	4026.10	4602.31
mannosidase, beta A, lysosomal	Manba	103158768	0.06	0.07	0.19	0.36	0.39	0.07	1.52	1.83	4.97	6.95	5.17	0.93
mannosidase, beta A, lysosomal-like	Manbal	100756897	64.00	64.53	61.78	53.46	48.86	54.55	1806.94	1800.79	1711.60	1491.53	1381.71	1539.40
mannosidase, endo-alpha	Manea	100682532	7.05	6.62	7.06	7.65	7.58	7.60	632.70	600.26	649.61	701.15	686.20	685.11
mannosidase, endo-alpha-like	Maneal	100754796	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.92	0.00	0.00	0.00	1.87
mesencephalic astrocyte-derived neurotrophic factor	Manf	100768617	204.76	204.03	261.76	264.49	281.67	283.20	3480.97	3530.20	4483.93	4347.11	4629.49	4633.16
MANSC domain containing 1	Mansc1	100774466	0.12	0.14	0.04	0.07	0.07	0.09	7.60	10.07	2.48	4.64	5.17	6.54
MANSC domain containing 4	Mansc4	100757727	0.34	0.23	0.24	0.22	0.40	0.18	12.91	10.98	11.18	10.43	13.45	6.54
monoamine oxidase A	Maoa	100760815	1.71	1.74	1.66	2.07	2.49	2.46	223.30	225.10	219.85	266.55	319.81	324.33
monoamine oxidase B	Maob	100759648	0.78	0.90	0.28	0.28	0.35	0.28	45.57	58.56	18.63	16.22	19.66	16.82
microtubule-associated protein 10	Map10	100771840	1.45	1.64	1.27	1.48	1.49	1.46	197.48	224.18	176.38	205.13	200.79	200.02
microtubule-associated protein 1A	Map1a	100755159	12.47	11.88	11.81	12.33	12.05	12.89	3790.86	3634.51	3636.83	3760.70	3630.73	3925.61
microtubule-associated protein 1B	Map1b	100759518	44.70	43.32	46.88	54.23	53.12	52.02	14889.25	14438.31	15758.36	18141.73	17627.89	17425.98
microtubule-associated protein 1 light chain 3 alpha	Map1lc3a	100760576	31.00	28.29	35.33	29.88	20.28	26.74	608.39	550.85	669.48	555.12	368.46	497.24
microtubule-associated protein 1 light chain 3 beta	Map1lc3b	100769810	130.09	123.82	141.68	134.25	145.29	155.46	6623.18	6363.14	7253.79	6855.01	7368.07	7893.29
microtubule-associated protein 1S	Map1s	100772627	9.78	9.27	7.55	3.84	2.32	2.81	1124.12	1070.59	869.46	454.30	283.59	332.74
microtubule-associated protein 2	Map2	100756420	0.15	0.14	0.25	0.15	0.11	0.24	26.58	31.11	37.26	27.81	37.26	32.71
mitogen-activated protein kinase kinase 1	Map2k1	100689403	27.02	24.00	25.49	26.32	22.53	24.78	736.75	682.62	724.14	770.68	663.43	753.34
mitogen-activated protein kinase kinase 2	Map2k2	100774204	85.03	75.38	88.27	71.94	51.65	59.61	3173.35	2864.05	3327.55	2663.20	1958.19	2184.32

mitogen-activated protein kinase kinase 3	Map2k3	100756793	28.57	27.37	31.79	33.29	32.03	35.67	1594.27	1532.68	1799.78	1848.48	1811.23	1986.17
mitogen-activated protein kinase kinase 4	Map2k4	100770977	9.33	10.63	10.35	10.76	11.30	11.28	534.72	620.39	611.11	615.39	649.97	642.12
mitogen-activated protein kinase kinase 5	Map2k5	100760095	16.42	15.78	21.07	22.43	21.76	20.76	1058.04	1004.71	1345.18	1415.04	1392.06	1321.62
mitogen-activated protein kinase kinase 6	Map2k6	100771767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase kinase 7	Map2k7	100754421	8.14	8.40	10.87	8.78	7.74	8.30	799.79	841.83	1063.23	856.44	750.37	808.49
mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase	Map3k1	100770540	5.53	5.56	3.71	4.01	3.83	4.21	1051.96	1064.18	725.38	773.00	730.70	796.34
mitogen-activated protein kinase kinase kinase 10	Map3k10	100768062	8.03	7.87	7.36	3.55	2.30	2.67	648.65	633.20	593.72	308.27	204.93	230.86
mitogen-activated protein kinase kinase kinase 11	Map3k11	100762677	10.65	9.48	9.16	5.96	4.27	4.36	1118.80	1020.26	1004.85	676.81	482.30	496.31
mitogen-activated protein kinase kinase kinase 12	Map3k12	100765738	10.07	10.07	10.55	11.15	10.98	11.64	1034.49	1023.01	1070.68	1150.81	1117.79	1182.36
mitogen-activated protein kinase kinase kinase 13	Map3k13	100754991	2.30	2.59	3.35	3.65	4.01	3.72	250.65	268.10	388.77	396.35	446.08	430.88
mitogen-activated protein kinase kinase kinase 14	Map3k14	100766459	9.81	8.77	4.23	3.64	2.51	3.13	594.72	559.09	262.08	238.74	161.46	200.02
mitogen-activated protein kinase kinase kinase 15	Map3k15	100751831	0.29	0.25	0.14	0.27	0.06	0.12	337.99	312.94	309.28	300.16	317.74	303.77
mitogen-activated protein kinase kinase kinase 19	Map3k19	100764739	0.01	0.05	0.02	0.02	0.00	0.04	6.84	10.98	8.69	11.59	5.17	10.28
mitogen-activated protein kinase kinase kinase 2	Map3k2	100772559	2.25	2.54	2.47	2.72	3.17	2.86	304.58	339.48	334.12	360.42	418.13	381.35
mitogen-activated protein kinase kinase kinase 3	Map3k3	100753508	12.50	11.90	14.47	13.51	13.05	14.15	1594.27	1523.53	1868.10	1734.90	1677.71	1817.00
mitogen-activated protein kinase kinase kinase 4	Map3k4	100764060	13.09	13.68	15.70	16.16	15.97	15.88	2097.09	2167.71	2495.35	2529.92	2497.42	2503.98
mitogen-activated protein kinase kinase kinase 5	Map3k5	100752376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase kinase kinase 6	Map3k6	100760135	4.25	3.91	3.75	3.01	2.25	2.38	520.28	480.39	449.64	370.85	282.55	311.25
mitogen-activated protein kinase kinase kinase 7	Map3k7	100774341	20.59	20.97	20.69	23.10	25.48	24.56	2790.55	2880.53	2859.28	3118.65	3412.35	3288.17
MAP3K7 C-terminal like	Map3k7cl	100769439	0.08	0.14	0.16	0.09	0.05	0.00	3.04	7.32	6.21	4.64	4.14	1.87
mitogen-activated protein kinase kinase kinase 8	Map3k8	100759538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase kinase kinase 9	Map3k9	100762934	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microtubule-associated protein 4	Map4	100763590	67.46	68.96	67.39	66.22	68.04	67.63	9220.81	9347.07	9324.35	9227.32	9255.88	9290.62
mitogen-activated protein kinase kinase kinase kinase 1	Map4k1	100766308	0.39	0.20	0.31	0.29	0.28	0.39	33.42	21.05	31.05	26.66	24.84	29.91
mitogen-activated protein kinase kinase kinase kinase 2	Map4k2	100761105	1.79	1.82	2.44	2.06	1.50	1.87	214.19	217.78	276.99	257.28	185.26	208.43
mitogen-activated protein kinase kinase kinase kinase 3	Map4k3	100756760	11.52	11.41	11.29	12.80	13.82	13.48	1404.39	1418.30	1382.44	1542.52	1681.85	1584.27
mitogen-activated protein kinase kinase kinase kinase 4	Map4k4	100761058	133.78	128.75	119.98	127.77	141.88	142.10	25417.98	24952.05	23289.13	24416.12	26610.53	26444.61

mitogen-activated protein kinase kinase kinase kinase 5	Map4k5	100764523	34.18	32.78	35.07	39.74	36.83	34.93	1860.87	1839.22	1938.90	2169.50	2001.66	1913.27
microtubule-associated protein 6	Map6	100757168	3.01	2.98	5.45	4.93	6.75	6.28	236.98	252.55	331.64	338.40	421.24	399.10
microtubule-associated protein 7	Map7	100752678	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
MAP7 domain containing 1	Map7d1	100763665	28.55	28.22	27.74	22.69	18.77	18.93	2739.66	2739.61	2645.64	2189.20	1886.78	1906.73
MAP7 domain containing 2	Map7d2	100752405	0.16	0.08	0.01	0.00	0.01	0.00	15.19	6.41	1.24	0.00	1.03	0.00
MAP7 domain containing 3	Map7d3	100767940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microtubule-associated protein 9	Map9	100773111	1.50	1.30	1.29	1.48	1.78	1.35	218.75	185.75	186.31	217.88	253.57	198.15
mitogen-activated protein kinase 1	Mapk1	100759514	76.05	80.13	76.98	80.25	90.90	85.98	2987.27	3196.21	3005.85	3073.46	3443.40	3316.21
mitogen-activated protein kinase 10	Mapk10	100754361	6.60	5.93	5.24	5.19	7.32	8.25	280.27	270.85	213.64	225.99	311.53	338.35
mitogen-activated protein kinase 11	Mapk11	100759172	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	1.03	1.87
mitogen-activated protein kinase 12	Mapk12	100754042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase 13	Mapk13	100763519	0.00	0.04	0.00	0.00	0.05	0.00	0.00	0.92	0.00	0.00	1.03	0.00
mitogen-activated protein kinase 14	Mapk14	100689104	22.79	21.21	23.81	24.83	24.03	23.91	2078.10	1938.96	2189.80	2263.37	2179.68	2178.72
mitogen-activated protein kinase 15	Mapk15	100758872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase 1 interacting protein 1-like	Mapk1ip1l	100774859	57.06	55.28	57.27	56.98	53.25	54.48	4476.72	4378.44	4619.32	4537.17	4247.58	4398.56
mitogen-activated protein kinase 3	Mapk3	100753149	41.26	42.02	51.12	52.58	48.97	50.11	1929.23	1955.43	2359.96	2393.17	2226.26	2296.48
mitogen-activated protein kinase 4	Mapk4	100771894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitogen-activated protein kinase 6	Mapk6	100764603	101.16	105.12	120.34	131.65	137.36	131.92	11421.19	11846.94	13679.10	14889.80	15367.48	14893.03
mitogen-activated protein kinase 7	Mapk7	100758520	5.19	5.04	4.71	4.16	3.26	3.13	432.18	408.10	403.68	351.15	281.52	257.97
mitogen-activated protein kinase 8	Mapk8	100771734	18.82	18.88	14.06	16.87	15.99	16.11	1588.20	1689.15	1361.33	1485.74	1533.85	1514.16
mitogen-activated protein kinase 8 interacting protein 1	Mapk8ip1	100774647	5.72	5.17	6.59	5.41	4.92	5.46	469.40	419.09	519.19	434.59	393.29	441.16
mitogen-activated protein kinase 8 interacting protein 2	Mapk8ip2	100754281	0.01	0.04	0.03	0.01	0.00	0.00	0.76	3.66	2.48	1.16	0.00	0.00
mitogen-activated protein kinase 8 interacting protein 3	Mapk8ip3	100750767	5.76	5.65	6.49	6.37	5.32	5.94	1051.96	1033.07	1209.79	1170.51	1007.04	1108.52
mitogen-activated protein kinase 9	Mapk9	100764964	10.38	9.41	13.16	14.20	16.24	15.46	957.78	860.13	1165.08	1241.20	1468.65	1430.04
mitogen-activated protein kinase associated protein 1	Mapkap1	100755792	58.32	61.38	91.02	92.08	101.18	102.02	3008.53	3091.90	4464.06	4464.16	4728.85	4829.44
mitogen-activated protein kinase-activated protein kinase 2	Mapkapk2	100762218	50.25	49.51	54.95	55.71	49.11	51.38	2742.70	2716.73	3035.66	3054.91	2689.93	2786.25
mitogen-activated protein kinase-activated protein kinase 3	Mapkapk3	100774379	16.35	14.85	19.41	19.84	14.00	15.79	1236.53	1159.35	1480.57	1488.05	1056.72	1188.90
mitogen-activated protein kinase-activated protein kinase 5	Mapkapk5	100763285	38.35	39.72	39.12	43.04	42.68	43.28	1806.94	1943.53	1879.28	2062.88	2093.78	2040.38
mitogen-activated protein kinase binding protein 1	Mapkbp1	100760673	5.71	5.51	4.65	4.80	5.26	5.18	1210.71	1183.14	989.94	1003.62	1095.02	1087.96
microtubule-associated protein, RP/EB family, member 1	Mapre1	100751441	54.05	56.15	59.23	61.88	63.08	64.81	3813.65	3956.60	4184.59	4349.43	4336.59	4540.63
microtubule-associated protein, RP/EB family, member 2	Mapre2	100765710	14.33	14.39	12.70	13.54	14.37	14.92	996.52	1033.07	916.66	936.41	994.62	1046.83

microtubule-associated protein, RP/EB family, member 3	Mapre3	100761531	9.54	10.01	10.35	11.46	9.54	10.11	480.79	502.35	546.52	570.19	494.72	515.00
mitochondrial amidoxime reducing component 1	Marc1	100756783	5.29	5.07	7.14	4.73	4.57	4.77	167.86	166.54	238.48	152.98	150.07	160.76
mitochondrial amidoxime reducing component 2	Marc2	100757070	39.13	38.49	37.54	42.38	45.31	44.41	1795.55	1796.21	1772.46	1918.01	2065.83	1999.26
membrane-associated ring finger (C3HC4) 1, E3 ubiquitin protein ligase	March1	100753515	0.07	0.09	0.15	0.11	0.00	0.04	2.28	5.49	4.97	10.43	2.07	3.74
membrane-associated ring finger (C3HC4) 10, E3 ubiquitin protein ligase	March10	100771778	0.19	0.26	0.18	0.13	0.05	0.16	6.84	10.07	8.69	5.79	4.14	4.67
membrane-associated ring finger (C3HC4) 11	March11	100766895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-associated ring finger (C3HC4) 2, E3 ubiquitin protein ligase	March2	100754256	34.49	33.83	38.30	35.42	28.21	35.26	1291.22	1273.73	1443.30	1346.66	1062.93	1327.23
membrane-associated ring finger (C3HC4) 3, E3 ubiquitin protein ligase	March3	100752992	9.34	8.54	8.36	8.01	6.37	7.07	293.18	269.93	260.84	254.96	193.54	219.65
membrane-associated ring finger (C3HC4) 4, E3 ubiquitin protein ligase	March4	100754006	0.05	0.06	0.00	0.00	0.00	0.03	3.04	5.49	0.00	0.00	1.03	0.93
membrane-associated ring finger (C3HC4) 5	March5	100766578	63.21	61.88	66.29	72.70	78.31	70.34	2292.29	2330.59	2551.25	2724.62	2998.36	2888.13
membrane-associated ring finger (C3HC4) 6, E3 ubiquitin protein ligase	March6	100759599	14.57	14.58	15.31	16.85	17.78	16.97	2701.68	2697.52	2835.68	3107.06	3254.00	3113.38
membrane-associated ring finger (C3HC4) 7, E3 ubiquitin protein ligase	March7	100769757	47.10	47.62	50.04	56.96	55.65	50.80	4591.41	4688.63	4914.94	5501.39	5415.05	4977.12
membrane-associated ring finger (C3HC4) 8, E3 ubiquitin protein ligase	March8	100772199	11.43	11.48	10.60	10.96	12.60	12.86	1456.80	1466.80	1352.63	1384.91	1591.81	1641.28
membrane-associated ring finger (C3HC4) 9	March9	100765264	4.57	4.41	4.72	4.41	2.49	3.00	270.40	266.27	259.60	280.46	141.79	189.74
MARCKS-like 1	Marcksl1	100758743	0.02	0.03	0.03	0.02	0.04	0.01	1.52	0.92	0.00	0.00	2.07	0.00
macrophage receptor with collagenous structure	Marco	100760468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAP/microtubule affinity-regulating kinase 1	Mark1	100757648	13.06	12.75	25.01	24.48	24.27	25.79	1185.64	1187.71	2290.41	2204.27	2199.35	2348.82
MAP/microtubule affinity-regulating kinase 2	Mark2	100769644	16.87	17.36	15.10	12.50	11.64	11.43	1222.86	1244.45	1111.67	916.71	838.34	851.48
MAP/microtubule affinity-regulating kinase 3	Mark3	100774552	49.95	48.67	48.27	54.05	53.46	50.76	4391.66	4344.58	4342.34	4678.56	4704.01	4460.24
MAP/microtubule affinity-regulating kinase 4	Mark4	100754604	5.96	5.13	7.69	5.25	4.04	4.33	269.64	239.74	337.85	234.10	181.12	187.87
methionyl-tRNA synthetase	Mars	100756755	59.44	58.84	65.51	67.91	68.80	71.74	4917.26	4882.62	5455.25	5555.86	5674.83	5901.50
methionyl-tRNA synthetase 2, mitochondrial	Mars2	100771401	12.53	12.72	10.59	10.81	11.65	12.03	963.10	975.43	819.78	830.95	891.12	930.00
MARVEL domain containing 2	Marveld2	100773152	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.00	1.03	1.87
MARVEL domain containing 3	Marveld3	100759703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	Masp1	100774526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
mannan-binding lectin serine peptidase 2	Masp2	100756295	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
microtubule associated serine/threonine kinase 1	Mast1	100756729	0.11	0.07	0.16	0.11	0.08	0.11	28.86	15.56	32.29	25.50	22.77	27.11
microtubule associated serine/threonine kinase 2	Mast2	100774357	33.31	32.92	36.41	34.46	29.02	30.13	5433.74	5441.70	6022.88	5670.59	4782.67	4903.28
microtubule associated serine/threonine kinase 3	Mast3	100759593	2.72	2.64	2.93	2.38	1.75	1.69	454.20	472.16	499.32	394.03	294.97	288.81
microtubule associated serine/threonine kinase-like	Mastl	100770735	6.59	6.16	6.09	7.23	9.77	8.47	796.00	764.05	788.73	891.21	1200.58	1036.55
methionine adenosyltransferase I, alpha	Mat1a	100758089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methionine adenosyltransferase II, alpha	Mat2a	100752327	33.58	33.47	43.69	42.37	39.20	42.45	2356.09	2383.66	3199.62	3079.25	2840.00	3101.23
methionine adenosyltransferase II, beta	Mat2b	100772831	11.27	12.91	11.95	14.41	14.94	15.47	534.72	614.90	568.88	659.43	698.62	708.48
megakaryocyte-associated tyrosine kinase	Matk	100764076	0.57	0.59	0.64	0.48	0.47	0.42	88.87	86.93	78.25	63.74	58.99	60.75
matrilin 1, cartilage matrix protein	Matn1	100766668	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
matrilin 2	Matn2	100754409	0.12	0.18	0.22	0.18	0.30	0.25	16.71	23.79	31.05	30.13	46.57	32.71
matrilin 3	Matn3	100751065	0.05	0.03	0.04	0.08	0.09	0.03	3.04	1.83	2.48	4.64	6.21	2.80
matrilin 4	Matn4	100758854	60.08	54.08	34.02	14.50	7.64	9.09	2727.51	2487.06	1622.17	712.74	421.24	476.68
matrin 3	Matr3	100755480	38.27	36.58	39.70	47.05	49.81	44.09	4691.67	4558.70	4955.93	5809.67	6141.61	5525.77
MAU2 sister chromatid cohesion factor	Mau2	100763469	7.82	7.04	7.38	6.94	5.71	6.26	532.44	528.89	551.49	570.19	434.69	474.81
mitochondrial antiviral signaling protein	Mavs	100764931	12.03	11.59	12.65	12.98	11.37	12.19	966.13	921.44	1006.09	1014.05	895.26	959.91
MYC associated factor X	Max	100752515	33.35	31.84	33.16	30.99	28.08	30.47	1940.62	1830.07	1919.02	1795.17	1479.00	1646.89
MYC-associated zinc finger protein (purine-binding transcription factor)	Maz	100754622	61.36	58.98	66.15	47.93	38.54	36.92	3320.71	3196.21	3691.48	2985.38	2433.25	2439.49
myoglobin	Mb	100762299	0.03	0.08	0.00	0.10	0.09	0.08	1.52	1.83	0.00	2.32	3.10	2.80
Mab-21 domain containing 1	Mb21d1	100758179	3.12	3.36	3.66	3.86	3.90	3.94	273.43	306.54	329.15	338.40	363.28	354.24
Mab-21 domain containing 2	Mb21d2	100750802	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methyl-CpG binding domain protein 1	Mbd1	100764668	3.62	4.16	4.09	4.09	3.97	3.83	480.79	550.85	562.67	573.67	522.67	524.35
methyl-CpG binding domain protein 2	Mbd2	100757357	49.52	52.40	46.20	50.33	61.49	54.53	2052.27	2167.71	1911.57	2025.79	2511.91	2234.80
methyl-CpG binding domain protein 3	Mbd3	100757698	75.25	71.17	71.80	40.80	20.59	23.49	2610.54	2478.83	2526.40	1416.20	729.67	812.23
methyl-CpG binding domain protein 3-like 1	Mbd3l1	100770293	0.00	0.08	0.00	0.00	0.00	0.17	0.00	0.92	1.24	0.00	0.00	1.87
methyl-CpG binding domain protein 4	Mbd4	100772468	14.22	14.21	15.45	16.20	19.14	17.72	1560.85	1564.71	1712.84	1791.69	2083.43	1957.20
methyl-CpG binding domain protein 5	Mbd5	100750416	3.94	3.84	3.89	4.50	5.39	4.83	764.86	728.37	748.98	866.87	1026.71	948.69
methyl-CpG binding domain protein 6	Mbd6	100757235	9.26	8.96	7.40	6.27	4.50	5.16	1096.02	1057.78	890.58	750.98	525.77	614.08
MAP3K12 binding inhibitory protein 1	Mbip	100757668	13.05	14.35	14.45	13.71	16.53	14.32	572.69	628.63	633.46	611.91	731.74	642.12
mannose-binding lectin (protein C) 2, soluble	Mbl2	100769668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metallo-beta-lactamase domain containing 1	Mblac1	100770291	5.21	5.37	7.28	4.99	5.24	5.75	126.84	126.27	170.17	129.80	135.58	145.81

metallo-beta-lactamase domain containing 2	Mblac2	100767767	6.16	5.86	7.41	8.18	9.17	9.01	634.97	612.16	797.42	894.69	1000.83	989.82
muscleblind-like splicing regulator 1	Mbnl1	100771199	83.32	84.86	96.62	110.05	109.92	105.32	13785.64	14080.54	16065.15	18236.76	18095.70	17540.95
muscleblind-like splicing regulator 2	Mbnl2	100765590	16.80	15.81	20.64	22.17	24.94	22.99	2119.87	2009.41	2651.86	2820.81	3102.89	2875.04
muscleblind-like splicing regulator 3	Mbnl3	100763023	12.54	12.58	15.25	19.10	18.29	17.49	2825.49	2843.01	3481.57	4327.41	4101.65	3922.81
membrane bound O-acyltransferase domain containing 1	Mboat1	100754943	7.08	7.32	6.10	7.17	8.39	8.07	553.70	571.90	476.96	551.65	662.39	633.71
membrane bound O-acyltransferase domain containing 2	Mboat2	100769688	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
membrane bound O-acyltransferase domain containing 4	Mboat4	100755071	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
membrane bound O-acyltransferase domain containing 7	Mboat7	100766440	4.49	4.15	5.45	3.67	3.31	2.76	211.15	204.05	288.16	188.90	173.88	152.35
myelin basic protein	Mbp	100763901	1.32	1.08	1.41	1.18	0.92	1.03	214.95	203.14	177.62	159.93	106.60	128.98
mbt domain containing 1	Mbtd1	100765134	7.45	7.94	4.09	4.69	4.88	4.59	1098.29	1162.09	609.86	687.24	706.90	682.31
membrane-bound transcription factor peptidase, site 1	Mbtps1	100689417	69.94	69.71	72.61	69.25	66.00	68.97	8577.48	8602.23	8974.08	8520.38	8148.45	8474.65
membrane-bound transcription factor peptidase, site 2	Mbtps2	100689085	13.49	13.06	12.34	13.53	13.62	12.33	1372.49	1365.23	1281.83	1413.88	1442.77	1318.82
melanocortin 2 receptor (adrenocorticotropic hormone)	Mc2r	100757427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanocortin 3 receptor	Mc3r	100761648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
melanocortin 4 receptor	Mc4r	100759720	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanocortin 5 receptor	Mc5r	100758289	0.00	0.00	0.00	0.00	0.04	0.00	0.76	0.00	0.00	0.00	2.07	0.00
melanoma cell adhesion molecule	Mcam	100755316	0.00	0.02	0.00	0.00	0.00	0.01	0.00	2.75	0.00	0.00	3.10	1.87
malonyl CoA:ACP acyltransferase (mitochondrial)	Mcat	100770744	12.05	11.72	14.09	14.26	12.22	12.19	619.02	607.58	730.35	757.93	651.01	658.94
mutated in colorectal cancers	Mcc	100773341	4.67	5.33	5.37	4.91	4.26	4.37	507.37	581.96	587.51	531.94	455.39	472.94
methylcrotonoyl-CoA carboxylase 1 (alpha)	Mccc1	100771229	6.57	6.31	8.57	7.95	9.91	9.19	492.18	462.09	639.67	579.46	729.67	696.33
methylcrotonoyl-CoA carboxylase 2 (beta)	Mccc2	100756739	7.20	7.99	8.02	8.55	9.48	9.53	464.84	521.57	503.05	531.94	582.70	607.54
methylmalonyl CoA epimerase	Mcee	100763022	10.56	11.59	9.23	9.98	10.64	8.96	219.51	235.16	195.01	198.18	214.24	184.13
mast cell-expressed membrane protein 1	Mcemp1	100772367	0.19	0.22	0.00	0.00	0.00	0.00	3.04	2.75	0.00	0.00	0.00	0.00
MCF.2 cell line derived transforming sequence	Mcf2	100757503	0.02	0.00	0.04	0.06	0.00	0.06	2.28	0.00	3.73	5.79	1.03	5.61
MCF.2 cell line derived transforming sequence-like	Mcf2l	100759333	2.51	2.36	2.15	2.20	2.46	2.38	378.25	358.69	329.15	322.18	372.60	350.50
multiple coagulation factor deficiency 2	Mcfd2	100764995	57.44	60.72	57.31	62.30	61.38	61.08	2798.14	2935.43	2795.94	2978.42	2892.79	2904.95
multiciliate differentiation and DNA synthesis associated cell cycle protein	Mcidas	100750519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
myeloid cell leukemia 1	Mcl1	100764237	150.13	152.07	121.97	132.42	144.86	149.29	6315.57	6460.14	5389.41	5881.52	6381.73	6661.39
minichromosome maintenance complex component 10	Mcm10	100773567	10.08	10.44	11.89	13.28	15.55	15.07	906.89	927.84	1080.62	1187.89	1392.06	1338.45
minichromosome maintenance complex component 2	Mcm2	100769958	80.33	83.80	89.38	80.36	60.21	67.68	5066.13	5314.51	5774.46	5372.75	4315.89	4589.23
minichromosome maintenance complex component 3	Mcm3	100774903	49.40	50.86	56.72	60.30	55.57	56.95	4287.60	4445.23	4967.11	5227.89	4838.56	4993.94

minichromosome maintenance complex component 3 associated protein	Mcm3ap	100753019	21.40	21.03	32.69	33.94	31.56	32.75	4039.23	3947.45	6186.83	6384.49	5956.35	6210.88
minichromosome maintenance complex component 4	Mcm4	100770466	48.22	48.81	57.46	60.46	62.17	62.11	4484.32	4619.09	5421.71	5693.77	5814.55	5764.11
minichromosome maintenance complex component 5	Mcm5	100756580	50.55	50.88	56.05	53.40	46.18	51.93	4071.89	4165.23	4620.56	4340.15	3805.64	4201.34
minichromosome maintenance complex component 6	Mcm6	100767151	34.29	36.01	46.01	49.04	50.67	50.09	2978.91	3165.10	4034.30	4259.03	4384.20	4292.94
minichromosome maintenance complex component 7	Mcm7	100770006	77.94	78.10	109.66	113.49	110.90	114.37	5631.98	5790.33	8109.58	8282.80	8096.70	8222.29
minichromosome maintenance complex component 8	Mcm8	100772692	14.25	14.20	16.70	20.11	23.06	21.42	1695.29	1702.88	1998.52	2380.42	2654.74	2460.99
minichromosome maintenance complex component 9	Mcm9	100762661	7.18	7.88	3.51	4.07	4.00	3.59	743.59	737.52	313.01	351.15	356.04	332.74
minichromosome maintenance complex binding protein	Mcmbp	100754052	27.91	29.43	33.07	36.26	37.20	36.43	2233.05	2355.30	2629.50	2889.19	2919.70	2863.83
minichromosome maintenance domain containing 2	Mcmdc2	100766749	6.46	6.43	10.12	10.60	12.12	11.54	442.81	439.22	684.39	730.12	791.76	787.93
mucolipin 1	Mcoln1	100771505	9.03	8.72	8.17	9.39	8.09	8.53	593.96	590.20	525.40	614.23	529.91	567.34
mucolipin 2	Mcoln2	100759844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
mucolipin 3	Mcoln3	100753377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
microcephalin 1	Mcph1	100758167	7.65	7.57	9.44	10.36	10.26	10.12	851.44	830.85	1033.42	1104.45	1101.23	1083.28
microspherule protein 1	Mcrs1	100761535	77.13	70.51	65.94	65.61	48.46	56.30	4602.05	4377.52	4023.12	3856.89	2908.31	3343.31
multiple C2 domains, transmembrane 1	Mctp1	100754238	1.21	1.29	1.06	1.08	1.75	1.62	149.63	166.54	132.90	133.28	218.38	203.76
multiple C2 domains, transmembrane 2	Mctp2	100754928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
malignant T cell amplified sequence 1	Mcts1	100762545	53.60	48.58	48.67	48.20	53.23	57.54	1148.42	1044.97	1028.45	1003.62	1114.68	1158.06
mitochondrial calcium uniporter	Mcu	100762628	30.66	32.53	31.41	31.74	39.26	36.80	2372.04	2539.22	2435.73	2459.23	2998.36	2807.75
mitochondrial calcium uniporter regulator 1	Mcur1	100769649	8.73	9.71	6.47	8.31	8.57	7.80	235.46	277.26	185.07	229.47	246.33	236.47
mediator of DNA-damage checkpoint 1	Mdc1	100756160	17.23	17.53	16.72	17.16	15.70	16.14	3593.38	3631.77	3515.11	3588.02	3248.82	3387.24
MyoD family inhibitor	Mdfi	100772181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MyoD family inhibitor domain containing	Mdfic	100764214	33.55	32.78	47.90	48.90	43.95	41.46	2804.98	2894.25	4069.08	4119.96	3791.15	3755.50
MAM domain containing glycosylphosphatidylinositol anchor 1	Mdga1	100751858	0.03	0.07	0.00	0.01	0.00	0.01	4.56	9.15	0.00	2.32	0.00	2.80
MAM domain containing glycosylphosphatidylinositol anchor 2	Mdga2	100761780	0.01	0.00	0.00	0.00	0.02	0.03	0.76	0.00	0.00	0.00	38.29	16.82
malate dehydrogenase 1, NAD (soluble)	Mdh1	100764352	151.28	149.79	148.38	154.02	161.17	170.26	5721.61	5750.07	5590.63	5757.51	6040.18	6249.20
malate dehydrogenase 1B, NAD (soluble)	Mdh1b	100756246	0.33	0.40	0.23	0.27	0.49	0.43	23.55	25.62	16.15	20.86	33.12	26.17
malate dehydrogenase 2, NAD (mitochondrial)	Mdh2	100763194	66.53	71.09	67.96	62.41	52.28	59.55	2165.45	2315.03	2207.19	1995.66	1689.10	1923.55
midkine (neurite growth-promoting factor 2)	Mdk	100752798	0.36	0.47	0.37	0.85	0.72	0.81	9.87	11.90	12.42	24.34	20.70	23.37
Mdm1 nuclear protein homolog (mouse)	Mdm1	100769064	10.08	11.48	12.22	12.84	16.46	16.28	931.95	1053.20	1127.81	1180.94	1511.08	1486.12
MDM2 oncogene, E3 ubiquitin protein ligase	Mdm2	100770120	81.87	86.35	73.70	80.82	85.83	80.87	6702.17	7097.00	6055.17	6533.99	6943.72	6556.71

MDM4, p53 regulator	Mdm4	100752007	3.30	3.76	3.87	4.69	5.16	4.35	432.94	499.61	494.35	603.80	652.04	572.02
MDN1, midasin homolog (yeast)	Mdn1	100773184	10.67	10.37	10.11	10.86	10.18	10.12	5925.93	5847.98	5732.23	6029.86	5657.24	5620.17
magnesium-dependent phosphatase 1	Mdp1	100758361	44.71	37.59	44.12	43.90	38.01	41.47	928.92	797.91	875.67	836.74	752.44	823.44
malic enzyme 1, NADP(+)-dependent, cytosolic	Me1	100767908	53.52	57.76	27.31	28.75	28.59	30.54	3332.10	3572.29	1707.87	1758.08	1731.53	1891.77
malic enzyme 2, NAD(+)-dependent, mitochondrial	Me2	100771311	13.51	13.22	14.04	15.26	16.04	15.90	963.10	949.80	989.94	1073.16	1134.34	1110.39
malic enzyme 3, NADP(+)-dependent, mitochondrial	Me3	100764482	15.05	14.52	18.78	19.40	15.01	14.58	553.70	544.44	703.02	715.05	551.65	545.85
male-enhanced antigen 1	Mea1	100770359	62.97	59.79	65.38	61.29	48.11	55.08	1046.65	1022.09	1136.51	1025.64	786.59	881.39
MYST/Esa1-associated factor 6	Meaf6	100755375	23.27	23.30	23.67	23.21	24.16	24.06	884.86	925.10	934.05	907.43	900.44	886.07
MDS1 and EVI1 complex locus	Mecom	100768628	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methyl CpG binding protein 2 (Rett syndrome)	Mecp2	100773625	21.74	22.65	24.34	27.93	23.18	25.74	616.75	665.23	725.38	793.86	675.85	743.06
mitochondrial trans-2-enoyl-CoA reductase	Mecr	100767445	21.70	21.87	22.39	21.86	17.23	20.41	1036.01	1034.90	1050.81	993.19	792.80	943.08
mediator complex subunit 1	Med1	100758159	62.89	61.55	51.41	52.50	49.05	51.04	10483.92	10604.32	8728.14	9068.55	8692.85	8824.22
mediator complex subunit 10	Med10	100759421	85.47	83.38	81.27	75.41	67.21	70.63	1444.64	1409.15	1403.56	1248.16	1173.67	1186.10
mediator complex subunit 11	Med11	100768888	22.96	22.16	17.66	15.41	16.04	14.00	394.96	388.89	313.01	263.07	283.59	239.28
mediator complex subunit 12	Med12	100755999	18.67	17.12	17.48	17.83	16.36	17.44	4043.03	3806.54	3874.07	3943.80	3600.72	3794.76
mediator complex subunit 12-like	Med12l	100774004	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
mediator complex subunit 13	Med13	100751010	10.02	9.67	4.66	5.98	6.13	5.55	3092.84	2996.73	1464.42	1857.75	1884.71	1722.60
mediator complex subunit 13-like	Med13l	100757555	14.49	14.73	12.61	13.63	13.31	13.13	4002.01	4097.52	3544.92	3790.83	3678.34	3632.13
mediator complex subunit 14	Med14	100768874	9.41	9.17	9.39	11.11	12.18	12.02	1816.82	1805.36	1873.07	2148.64	2371.15	2322.65
mediator complex subunit 15	Med15	100754109	16.80	16.81	13.31	12.80	10.48	10.47	1622.38	1632.42	1281.83	1213.39	972.89	978.60
mediator complex subunit 16	Med16	100763586	14.14	13.85	13.81	10.19	5.72	6.44	1226.66	1216.99	1203.58	865.71	491.62	554.26
mediator complex subunit 17	Med17	100752831	10.74	11.30	10.46	10.92	11.29	10.78	765.62	812.55	745.25	778.79	809.36	765.49
mediator complex subunit 18	Med18	100770895	22.78	22.17	24.06	21.46	22.54	22.86	830.18	802.48	884.37	781.11	815.57	825.31
mediator complex subunit 19	Med19	100755285	32.79	33.84	36.86	37.40	38.19	38.12	1582.88	1644.32	1803.51	1798.64	1846.42	1836.63
mediator complex subunit 21	Med21	100756366	133.05	129.87	132.43	128.59	134.92	136.79	2408.50	2345.23	2381.08	2252.94	2379.43	2410.51
mediator complex subunit 22	Med22	100771147	11.87	11.42	15.67	14.08	12.59	13.92	524.08	503.27	642.16	559.76	501.97	543.04
mediator complex subunit 23	Med23	100775007	12.49	12.26	5.97	6.78	7.82	7.16	1786.44	1769.67	852.07	965.38	1124.00	1017.86
mediator complex subunit 24	Med24	100759120	270.53	255.58	234.43	206.80	165.55	187.67	8071.62	7747.59	7113.43	6095.92	5076.61	5579.98
mediator complex subunit 25	Med25	100767409	16.82	16.16	14.60	10.96	7.52	8.98	1320.08	1260.00	1130.30	864.55	585.80	707.54
mediator complex subunit 26	Med26	100755356	8.45	6.84	6.94	5.35	3.64	4.42	669.91	558.17	566.39	438.07	293.94	358.91
mediator complex subunit 27	Med27	100760726	60.41	59.02	60.33	52.80	43.78	47.10	1762.13	1743.14	1755.07	1460.24	1240.95	1317.88
mediator complex subunit 28	Med28	100768639	44.68	53.20	52.38	52.95	54.30	48.33	1180.32	1376.21	1442.06	1401.13	1498.66	1377.70
mediator complex subunit 29	Med29	100772644	34.11	30.85	35.02	32.16	22.20	25.04	1402.87	1305.75	1486.78	1320.01	944.94	1046.83
mediator complex subunit 30	Med30	100751133	19.94	18.24	26.43	28.47	29.58	32.84	334.96	291.90	454.60	469.36	479.20	530.89
mediator complex subunit 31	Med31	100759823	11.19	12.03	11.02	11.51	12.96	11.39	384.33	390.72	376.35	377.81	423.31	377.61
mediator complex subunit 4	Med4	100761008	67.99	65.54	64.53	66.71	61.99	67.25	3156.65	3058.04	2997.16	3069.98	2875.19	3085.34
mediator complex subunit 6	Med6	100762349	47.45	47.50	43.83	49.33	53.30	50.84	1348.18	1370.72	1235.88	1381.43	1507.98	1434.72
mediator complex subunit 7	Med7	100767208	11.59	12.95	11.33	11.41	14.64	11.87	344.07	379.74	330.40	324.50	429.52	340.22
mediator complex subunit 8	Med8	100767178	52.52	49.59	52.96	53.54	51.58	53.68	1513.76	1461.31	1589.87	1528.62	1547.30	1592.68
mediator complex subunit 9	Med9	100767374	8.28	8.22	8.21	7.93	8.27	8.96	343.31	345.88	349.03	333.77	346.72	379.48
mesenteric estrogen-dependent adipogenesis	Medag	100753882	198.05	197.06	350.61	355.76	348.42	354.68	14548.97	14566.42	26153.38	26271.55	25640.75	26277.30

myocyte enhancer factor 2A	Mef2a	100766678	24.81	25.23	20.19	22.88	22.08	20.66	3846.31	3920.00	3168.56	3545.14	3407.17	3198.44
MEF2B neighbor	Mef2bnb	100770611	40.26	39.16	30.20	21.80	16.64	18.37	1307.17	1275.56	998.64	690.72	541.30	596.32
myocyte enhancer factor 2C	Mef2c	100774573	3.12	2.58	3.08	3.57	2.80	2.65	330.40	284.58	327.91	387.08	290.83	284.14
myocyte enhancer factor 2D	Mef2d	100754401	38.24	36.64	34.06	26.40	18.76	18.98	2205.70	2154.90	2009.70	1540.20	1099.16	1108.52
Mediterranean fever	Mefv	100771221	0.21	0.29	0.18	0.22	0.30	0.31	18.23	27.45	14.91	20.86	33.12	27.11
multiple EGF-like-domains 10	Megf10	100757958	0.05	0.05	0.02	0.03	0.00	0.01	8.35	9.15	3.73	4.64	0.00	0.93
multiple EGF-like-domains 11	Megf11	100767399	0.45	0.34	0.24	0.16	0.12	0.10	68.36	58.56	38.50	24.34	16.56	23.37
multiple EGF-like-domains 6	Megf6	100769242	1.04	0.96	0.45	0.30	0.11	0.27	202.04	185.75	93.16	66.06	36.22	50.47
multiple EGF-like-domains 8	Megf8	100755592	2.20	1.90	1.81	1.09	0.79	0.88	536.99	458.43	470.75	268.87	191.47	213.10
multiple EGF-like-domains 9	Megf9	100764388	2.34	2.48	2.35	2.70	3.37	3.18	429.14	458.43	444.67	505.29	628.24	591.65
meiosis inhibitor 1	Mei1	100763620	0.03	0.01	0.00	0.02	0.00	0.05	11.39	11.90	8.69	12.75	8.28	14.02
meiosis-specific 4 homolog (S. cerevisiae)	Mei4	100765662	0.03	0.11	0.02	0.00	0.02	0.00	1.52	6.41	1.24	0.00	1.03	0.00
meiosis/spermiogenesis associated 1	Meig1	100752489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
meiosis specific with OB domains	Meiob	100753501	0.00	0.07	0.00	0.00	0.00	0.00	0.76	3.66	1.24	0.00	0.00	0.00
Meis homeobox 1	Meis1	100751815	2.26	2.13	2.43	2.49	2.64	2.30	296.98	288.24	313.01	354.63	367.42	298.16
Meis homeobox 2	Meis2	100764044	6.67	6.18	7.82	8.61	8.26	9.28	519.52	479.48	637.19	669.86	673.78	670.16
Meis homeobox 3	Meis3	100765943	2.84	3.07	3.23	3.11	1.91	2.49	162.54	172.94	152.78	152.98	93.15	125.25
maternal embryonic leucine zipper kinase	Melk	100774970	12.21	12.17	12.76	14.78	16.14	15.85	865.12	872.03	920.39	1038.39	1155.04	1111.32
mediator of cell motility 1	Memo1	100766217	18.04	18.36	20.47	20.78	22.51	19.68	2234.56	2263.79	2548.76	2555.42	2731.33	2438.55
multiple endocrine neoplasia I	Men1	100757636	17.36	17.62	20.15	14.68	10.64	11.85	1475.03	1519.87	1798.54	1409.25	1059.83	1184.23
mesenchyme homeobox 1	Meox1	100760789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mesenchyme homeobox 2	Meox2	100753046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
meprin A, alpha (PABA peptide hydrolase)	Mep1a	100771501	0.18	0.05	0.00	0.00	0.00	0.00	11.39	4.58	0.00	0.00	0.00	0.00
meprin A, beta	Mep1b	100774490	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
methylphosphate capping enzyme	Mepce	100754545	19.25	18.68	19.14	18.73	14.54	15.74	1036.01	1005.62	1033.42	1005.94	777.27	864.57
matrix extracellular phosphoglycoprotein	Mepe	100753106	0.02	0.00	0.03	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
c-mer proto-oncogene tyrosine kinase	Mertk	100755929	1.08	1.06	0.76	0.85	0.65	0.83	138.24	126.27	86.95	110.10	83.83	98.14
mesoderm development candidate 1	Mesdc1	100760136	10.61	11.36	8.85	8.14	7.90	8.76	458.00	486.80	380.08	348.83	344.65	377.61
mesoderm development candidate 2	Mesdc2	100759548	82.82	83.37	102.76	104.42	104.52	106.94	3976.19	4000.53	4950.96	4990.31	4977.25	5131.34
mesoderm posterior 2 homolog (mouse)	Mesp2	100751921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mesoderm specific transcript	Mest	100758243	2.66	2.65	2.36	2.65	3.34	3.14	121.53	103.40	100.61	107.78	142.83	147.68
met proto-oncogene	Met	100751933	16.79	17.89	22.05	25.99	34.63	30.38	3234.12	3463.40	4295.14	5003.06	6613.56	5866.92
methionyl aminopeptidase 1	Metap1	100761542	55.56	50.23	50.57	54.10	57.20	56.22	2725.23	2517.26	2563.67	2646.97	2816.20	2805.88
methionyl aminopeptidase type 1D (mitochondrial)	Metap1d	100768673	12.06	12.66	11.16	11.52	11.03	11.18	440.53	439.22	382.56	397.51	380.87	388.82
methionyl aminopeptidase 2	Metap2	100755552	135.20	135.99	124.93	133.35	133.97	134.04	7767.81	7943.41	7250.06	7619.90	7674.42	7650.27
meteorin, glial cell differentiation regulator	Metrn	103159155	4.80	4.51	5.11	4.00	2.64	3.02	221.79	219.61	250.90	176.16	124.20	139.27

meteorin, glial cell differentiation regulator-like	Metrnl	100753251	10.77	10.42	3.98	3.00	1.88	2.05	294.70	285.49	105.58	81.12	51.75	54.21
methyltransferase like 1	Mettl1	100760711	15.75	16.31	15.88	16.97	14.82	15.77	1039.81	1080.65	1069.44	1124.15	990.48	1059.92
methyltransferase like 10	Mettl10	100771027	24.67	25.09	25.02	25.12	27.87	28.12	1134.75	1139.22	1261.96	1256.27	1369.29	1338.45
methyltransferase like 11B	Mettl11b	100752444	0.04	0.04	0.00	0.00	0.00	0.05	2.28	0.92	0.00	0.00	0.00	0.93
methyltransferase like 13	Mettl13	100771851	15.74	15.43	14.57	14.74	12.94	13.00	1408.95	1383.53	1314.13	1306.10	1151.94	1156.19
methyltransferase like 14	Mettl14	100774068	40.58	40.53	41.36	42.21	39.37	40.61	2432.80	2390.98	2497.84	2516.02	2346.31	2410.51
methyltransferase like 15	Mettl15	100770656	1.66	2.04	1.60	1.95	2.36	2.31	131.40	158.30	144.08	162.25	163.53	169.18
methyltransferase like 16	Mettl16	100765063	18.87	19.29	24.77	24.56	21.54	20.63	1522.12	1551.90	2018.39	1980.59	1726.36	1661.84
methyltransferase like 17	Mettl17	100751989	19.51	18.27	21.37	20.32	18.47	19.85	961.58	916.86	1085.58	1014.05	920.10	980.47
methyltransferase like 18	Mettl18	100762157	7.62	7.34	8.01	8.01	8.46	9.13	293.18	282.75	310.52	307.11	323.95	351.44
methyltransferase like 20	Mettl20	100759818	2.48	2.69	2.54	2.49	4.43	3.73	166.34	182.09	178.86	168.04	299.11	266.38
methyltransferase like 21A	Mettl21a	100761287	5.69	5.88	7.01	7.37	9.14	8.36	309.89	314.77	378.84	387.08	476.09	443.97
methyltransferase like 21B	Mettl21b	100761001	21.78	22.55	27.69	26.68	24.77	25.56	1667.95	1717.52	2133.91	2028.11	1877.47	1944.11
methyltransferase like 21C	Mettl21c	100764605	0.04	0.04	0.24	0.11	0.05	0.14	1.52	2.75	7.45	3.48	2.07	7.48
methyltransferase like 22	Mettl22	100765965	0.27	0.21	0.00	0.00	0.00	0.00	11.39	7.32	0.00	0.00	0.00	0.00
methyltransferase like 23	Mettl23	100771861	22.37	21.48	21.98	21.93	22.09	19.87	704.09	693.60	694.33	696.51	651.01	624.36
methyltransferase like 24	Mettl24	100773288	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
methyltransferase like 25	Mettl25	100753034	3.62	3.50	2.66	3.39	3.97	3.48	206.59	204.05	149.05	191.22	224.59	197.22
methyltransferase like 2A	Mettl2a	100752016	20.53	20.33	24.11	24.29	22.62	25.51	761.82	761.31	906.72	883.10	855.93	920.65
methyltransferase like 3	Mettl3	100774316	19.53	20.86	21.07	20.48	21.51	21.85	1339.83	1406.41	1439.58	1435.90	1499.70	1515.10
methyltransferase like 4	Mettl4	100752537	7.55	7.18	6.63	7.32	7.81	7.87	643.33	624.97	578.81	618.86	655.15	658.01
methyltransferase like 5	Mettl5	100765596	14.41	14.11	15.60	15.58	18.62	17.98	433.70	436.47	455.85	456.61	524.74	521.55
methyltransferase like 6	Mettl6	100766645	19.47	21.14	18.68	23.13	25.49	27.15	732.20	773.20	712.96	877.30	963.57	1052.44
methyltransferase like 7A	Mettl7a	100764211	12.56	12.95	14.36	14.08	15.61	16.88	412.43	442.88	509.26	505.29	543.37	629.97
methyltransferase like 7B	Mettl7b	100773333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methyltransferase like 8	Mettl8	100766650	7.11	7.02	6.97	7.74	8.77	8.19	392.68	391.63	394.98	432.28	496.79	450.51
methyltransferase like 9	Mettl9	100760354	29.21	30.63	35.54	38.51	38.70	36.51	1265.39	1312.16	1557.58	1690.86	1728.43	1584.27
mex-3 RNA binding family member A	Mex3a	100763489	4.98	4.65	6.62	5.95	4.16	5.28	546.87	510.59	727.86	654.79	457.46	593.52
mex-3 RNA binding family member B	Mex3b	100757764	1.78	1.44	1.34	1.11	1.12	1.01	143.55	117.12	109.30	92.71	93.15	82.25
mex-3 RNA binding family member C	Mex3c	100773339	18.49	18.00	18.99	19.39	21.78	21.98	1543.38	1497.91	1594.84	1622.49	1808.12	1845.97
mex-3 RNA binding family member D	Mex3d	100757410	7.02	7.61	5.77	3.73	3.55	3.54	558.26	605.75	478.20	311.75	282.55	283.20
microfibrillar-associated protein 1	Mfap1	100753487	62.05	60.98	67.50	67.04	73.25	70.13	3328.30	3297.78	3681.55	3582.22	3907.07	3758.31
microfibrillar-associated protein 2	Mfap2	100770393	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
microfibrillar-associated protein 3	Mfap3	100766304	4.68	5.34	4.97	5.73	5.38	5.37	287.11	334.90	339.09	361.58	353.97	348.63
microfibrillar-associated protein 3-like	Mfap3l	100761346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microfibrillar-associated protein 4	Mfap4	100758235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microfibrillar associated protein 5	Mfap5	100762659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial fission factor	Mff	100772038	30.89	32.31	31.67	38.20	43.78	39.51	1140.83	1212.42	1201.10	1419.68	1579.39	1453.41
milk fat globule-EGF factor 8 protein	Mfge8	100774737	224.96	217.97	221.95	200.00	159.95	171.25	5922.89	5783.01	5914.82	5285.83	4316.93	4625.68
malignant fibrous histiocytoma amplified sequence 1	Mfhas1	100773872	10.50	9.79	9.89	10.07	9.74	11.15	1410.46	1324.05	1341.45	1379.11	1326.85	1520.71

antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5	Mfi2	100750333	0.01	0.02	0.00	0.02	0.00	0.00	0.76	0.92	1.24	2.32	0.00	0.00
mitofusin 1	Mfn1	100756764	24.34	23.85	26.99	30.12	31.33	30.66	3053.35	3038.83	3434.37	3768.81	3882.23	3858.32
mitofusin 2	Mfn2	100763273	38.11	35.64	37.16	34.96	31.01	33.77	4896.75	4654.78	4868.98	4563.83	4007.47	4349.95
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	Mfng	100762875	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
membrane frizzled-related protein	Mfrp	100759385	0.00	0.00	0.00	0.00	0.02	0.00	3.04	0.92	3.73	2.32	3.10	2.80
major facilitator superfamily domain containing 1	Mfsd1	100757347	36.47	36.72	44.35	42.95	47.75	48.00	2033.29	2149.41	2595.96	2551.94	2787.22	2730.17
major facilitator superfamily domain containing 10	Mfsd10	100767880	23.11	21.09	26.43	21.10	15.95	16.26	1278.30	1184.05	1422.19	1180.94	882.84	935.60
major facilitator superfamily domain containing 11	Mfsd11	100771567	8.94	9.07	13.26	15.01	14.31	16.55	693.46	710.07	997.40	1119.52	1079.49	1247.78
major facilitator superfamily domain containing 12	Mfsd12	100771307	9.86	9.49	9.44	5.79	4.36	4.01	487.62	479.48	478.20	296.68	234.94	201.89
major facilitator superfamily domain containing 2A	Mfsd2a	100774195	0.65	0.52	0.55	0.55	0.56	0.41	50.13	37.52	43.47	39.40	39.33	37.39
major facilitator superfamily domain containing 2B	Mfsd2b	100761245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	1.03	0.00
major facilitator superfamily domain containing 3	Mfsd3	100760214	6.75	5.08	6.99	5.19	4.12	3.73	284.07	212.29	293.13	213.24	170.77	156.09
major facilitator superfamily domain containing 4	Mfsd4	100760775	0.05	0.05	0.03	0.04	0.02	0.01	5.32	4.58	2.48	3.48	2.07	1.87
major facilitator superfamily domain containing 5	Mfsd5	100769120	22.85	22.82	25.46	23.81	19.43	21.26	1012.47	1009.28	1130.30	1046.50	851.79	937.47
major facilitator superfamily domain containing 6	Mfsd6	100751700	3.94	4.20	5.17	5.54	6.61	6.01	505.85	547.19	670.73	708.10	841.44	778.58
major facilitator superfamily domain containing 6-like	Mfsd6l	100751808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
major facilitator superfamily domain containing 7	Mfsd7	100770818	0.06	0.00	0.03	0.00	0.05	0.07	3.04	0.00	1.24	1.16	3.10	2.80
major facilitator superfamily domain containing 8	Mfsd8	100771697	5.21	5.12	5.35	5.80	5.66	4.91	584.85	585.62	602.41	655.95	648.94	553.32
major facilitator superfamily domain containing 9	Mfsd9	100760470	6.06	6.41	6.86	6.97	6.41	6.11	592.44	627.71	674.45	690.72	625.13	611.27
MGA, MAX dimerization protein	Mga	100761540	6.12	5.93	5.51	6.38	6.21	6.08	1813.78	1775.17	1649.49	1901.79	1836.07	1782.42
mitochondria-localized glutamic acid-rich protein	Mgarp	100763385	4.53	4.54	4.07	4.01	4.97	5.06	157.22	162.88	142.84	144.86	171.81	180.39
mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase	Mgat1	100682529	23.98	23.02	24.53	20.16	15.94	17.45	1793.27	1653.47	1781.15	1686.23	1450.02	1565.57
mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase	Mgat2	100753385	18.85	20.04	26.74	26.38	26.38	25.47	1098.29	1166.67	1620.92	1580.77	1578.35	1543.14
mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	Mgat3	100689076	0.02	0.02	0.06	0.00	0.00	0.07	0.76	0.92	4.97	1.16	0.00	2.80
mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A	Mgat4a	100766200	1.12	1.07	0.74	0.98	1.17	1.08	252.93	242.48	177.62	227.15	269.10	241.14

mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B	Mgat4b	100768637	22.01	21.04	28.94	27.97	24.60	26.57	1083.10	1063.27	1391.14	1331.60	1184.02	1270.22
mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme C (putative)	Mgat4c	100760589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase	Mgat5	100760162	5.60	5.37	6.77	7.11	7.85	7.75	1415.02	1363.40	1748.86	1827.62	1990.28	1977.76
mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B	Mgat5b	100771275	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
meningioma expressed antigen 5 (hyaluronidase)	Mgea5	100751586	20.69	20.21	11.26	14.09	14.14	13.46	2773.08	2724.05	1535.22	1900.63	1921.97	1817.00
monoglyceride lipase	Mgll	100767455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial genome maintenance exonuclease 1	Mgme1	100768303	8.33	7.80	9.37	10.19	11.93	10.64	493.70	473.07	549.00	610.75	699.65	629.03
O-6-methylguanine-DNA methyltransferase	Mgmt	100767894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix Gla protein	Mgp	100754494	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mahogunin ring finger 1, E3 ubiquitin protein ligase	Mgrn1	100772863	19.60	18.20	19.17	19.74	17.60	19.88	1787.20	1705.62	1704.14	1703.61	1475.89	1613.24
microsomal glutathione S-transferase 1	Mgst1	100774867	103.32	100.60	85.34	92.76	89.45	92.07	2671.30	2617.91	2228.30	2323.63	2274.90	2299.29
microsomal glutathione S-transferase 2	Mgst2	100764249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
microsomal glutathione S-transferase 3	Mgst3	100759236	157.67	148.47	128.39	118.76	119.52	134.85	2530.78	2439.48	2085.46	1913.38	1939.56	2083.38
melanoma inhibitory activity 2	Mia2	100758526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melanoma inhibitory activity family, member 3	Mia3	100755615	23.30	22.95	27.15	31.24	29.50	29.36	4218.48	4204.58	4908.73	5752.88	5547.53	5377.15
mindbomb E3 ubiquitin protein ligase 1	Mib1	100766406	10.78	10.89	11.00	11.63	11.74	12.73	2414.58	2435.82	2468.03	2604.09	2624.73	2841.40
mindbomb E3 ubiquitin protein ligase 2	Mib2	100773643	13.01	12.13	13.59	9.70	6.51	7.90	1569.21	1448.50	1624.65	1214.55	790.73	965.51
microtubule associated monooxygenase, calponin and LIM domain containing 1	Mical1	100752579	30.05	29.05	37.67	30.31	24.33	26.10	3262.98	3191.64	4144.84	3381.73	2759.27	2876.91
microtubule associated monooxygenase, calponin and LIM domain containing 2	Mical2	100763886	13.40	12.19	13.04	12.77	11.66	14.98	920.56	915.95	881.88	849.49	951.15	944.95
microtubule associated monooxygenase, calponin and LIM domain containing 3	Mical3	100754319	18.39	18.79	20.28	20.07	19.67	19.59	3688.32	3791.90	4143.60	3927.58	3389.58	3635.87
MICAL C-terminal like	Micalcl	100763317	0.03	0.05	0.04	0.06	0.02	0.11	2.28	2.75	2.48	5.79	2.07	7.48
MICAL-like 1	Micall1	100756473	15.98	15.44	14.70	13.27	11.89	12.87	2097.09	2061.57	1943.87	1765.03	1602.16	1705.77
MICAL-like 2	Micall2	100771058	4.91	5.20	6.62	5.95	4.66	5.04	647.89	667.97	874.43	796.18	633.41	667.35
mitochondrial calcium uptake 1	Micu1	100759230	27.12	26.66	27.50	28.86	29.66	31.59	2564.20	2525.49	2576.09	2691.01	2777.90	2968.51
mitochondrial calcium uptake 2	Micu2	100763005	44.60	43.63	45.21	51.61	55.94	54.66	1954.29	1921.57	1979.89	2256.42	2456.02	2350.69
mitochondrial calcium uptake family, member 3	Micu3	100752287	4.30	4.27	4.46	5.36	6.62	6.31	500.54	500.52	541.55	635.09	758.64	743.06

midline 1 (Opitz/BBB syndrome)	Mid1	100758489	4.90	5.07	5.72	6.53	7.27	6.98	821.06	867.45	970.07	1090.54	1213.00	1175.81
MID1 interacting protein 1	Mid1ip1	100762177	44.41	44.88	47.46	34.24	26.77	26.56	2302.92	2352.55	2494.11	1783.58	1366.18	1373.96
midline 2	Mid2	100759244	2.64	2.98	3.92	5.08	5.75	4.82	173.17	191.24	262.08	323.34	363.28	314.05
midnolin	Midn	100755088	26.91	26.83	16.56	15.16	12.97	12.71	2517.87	2515.43	1573.72	1382.59	1155.04	1148.71
mitochondrial elongation factor 1	Mief1	100769729	22.95	23.05	23.02	22.34	22.70	24.38	3452.11	3455.17	3503.93	3364.34	3370.95	3673.25
mitochondrial elongation factor 2	Mief2	100772208	5.77	5.71	5.57	6.02	5.44	5.87	442.81	437.39	440.94	455.46	399.50	450.51
migration and invasion enhancer 1	Mien1	100760275	48.66	48.27	44.38	39.28	39.78	39.42	957.78	952.55	857.04	739.39	730.70	726.24
mesoderm induction early response 1, transcriptional regulator	Mier1	100751573	14.70	15.71	14.69	16.20	17.70	17.36	1829.73	1969.15	1835.80	2035.06	2222.12	2163.76
mesoderm induction early response 1, family member 2	Mier2	100774581	4.39	4.31	4.61	2.42	1.69	2.16	395.72	377.91	409.89	241.06	163.53	214.97
mesoderm induction early response 1, family member 3	Mier3	100766598	11.02	11.52	11.32	11.78	13.33	12.32	1668.71	1754.12	1728.98	1804.44	2003.73	1874.01
macrophage migration inhibitory factor (glycosylation-inhibiting factor)	Mif	100766328	71.33	63.69	48.62	14.50	5.38	6.10	960.82	870.20	652.10	200.49	85.90	81.32
MIF4G domain containing	Mif4gd	100770200	7.65	6.09	5.80	5.36	5.05	5.63	270.40	215.95	199.98	179.63	172.84	191.61
migration and invasion inhibitory protein	Miip	100763559	17.97	16.70	16.71	16.01	13.29	12.79	960.82	915.03	931.57	895.85	726.56	732.78
mast cell immunoglobulin-like receptor 1	Milr1	100774577	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
MYC induced nuclear antigen	Mina	100752945	16.54	18.30	16.98	18.39	18.56	18.16	919.80	1025.75	971.31	1039.55	1026.71	1000.10
misshapen-like kinase 1	Mink1	100752881	5.14	5.79	6.39	6.27	4.83	5.61	725.36	776.86	911.69	823.99	643.76	733.72
mitochondrial inner membrane organizing system 1	Minos1	100752335	141.88	136.17	132.32	130.92	133.71	147.05	1682.38	1604.05	1553.85	1486.89	1557.65	1705.77
multiple inositol-polyphosphate phosphatase 1	Minpp1	100766430	46.21	46.87	44.53	46.60	53.34	56.05	2534.58	2578.56	2451.88	2520.65	2894.86	3059.17
missing oocyte, meiosis regulator, homolog (Drosophila)	Mios	100760592	9.17	9.39	8.77	10.46	9.80	8.85	860.56	894.90	830.96	988.56	950.12	819.71
myo-inositol oxygenase	Miox	100756277	0.04	0.13	0.06	0.00	0.00	0.05	0.76	2.75	1.24	0.00	0.00	1.87
major intrinsic protein of lens fiber	Mip	100764175	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
mitochondrial intermediate peptidase	Mipep	100762716	18.89	19.13	21.15	21.19	23.92	23.65	1324.64	1369.81	1504.17	1517.03	1699.45	1644.08
mirror-image polydactyly 1	Mipol1	100770377	10.18	8.28	7.85	9.71	11.92	11.24	646.37	583.79	603.65	669.86	786.59	774.84
microRNA mir-1	Mir1	102464842	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-100	Mir100	102464843	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-101b	Mir101b	102466521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
microRNA mir-103	Mir103	102464844	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
microRNA mir-106b	Mir106b	102464845	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.93
microRNA mir-107	Mir107	102464846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-10a	Mir10a	102466106	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
microRNA mir-10b	Mir10b	102466522	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	0.00	1.03	3.74
microRNA mir-122	Mir122	102464847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-124	Mir124	102464848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-125b	Mir125b	102466523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-126	Mir126	102464850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1260	Mir1260	102464851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

microRNA mir-1271	Mir1271	102466954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.17	0.00
microRNA mir-128	Mir128	102466524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1285	Mir1285	102464852	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.03	0.93
microRNA mir-129	Mir129	102464853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1306	Mir1306	102466902	0.00	0.00	0.00	0.00	0.00	0.00	68.36	66.80	83.22	68.38	48.64	63.56
microRNA mir-130a	Mir130a	102464854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-130b	Mir130b	102464855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-132	Mir132	102466525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-134	Mir134	102464856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1343	Mir1343	102466107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-137	Mir137	102464857	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-138	Mir138	102464858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-139	Mir139	102466526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-140	Mir140	102464859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-141	Mir141	102464860	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-142	Mir142	102464861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-143	Mir143	102464862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-144	Mir144	102466108	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	1.03	0.93
microRNA mir-146a	Mir146a	102466527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-146b	Mir146b	102464863	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.93
microRNA mir-147	Mir147	102464864	0.00	0.00	0.00	0.00	0.00	0.00	11.39	9.15	4.97	0.00	3.10	8.41
microRNA mir-148b	Mir148b	102464865	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
microRNA mir-149	Mir149	102466528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-151	Mir151	102464866	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-152	Mir152	102464867	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-154	Mir154	102466109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-155	Mir155	102465946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-15a	Mir15a	102464868	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-15b	Mir15b	102466529	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-16	Mir16	102464869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-17	Mir17	102464870	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
microRNA mir-181a	Mir181a	102466530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-181b	Mir181b	102464871	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
microRNA mir-181c	Mir181c	102464872	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-181d	Mir181d	102464873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-182	Mir182	102466955	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-183	Mir183	102466531	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00

microRNA mir-1839	Mir1839	102464874	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-184	Mir184	102464875	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1843	Mir1843	102464876	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
microRNA mir-185	Mir185	102466532	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-186	Mir186	102464877	0.00	0.00	0.00	0.00	0.00	0.00	6.08	3.66	4.97	11.59	6.21	2.80
microRNA mir-187	Mir187	102464878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-188	Mir188	102464879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-18a	Mir18a	102466110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1903	Mir1903	102464880	0.00	0.00	0.00	0.00	0.00	0.00	6.08	4.58	3.73	0.00	0.00	0.00
microRNA mir-190a	Mir190a	102466533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
microRNA mir-190b	Mir190b	102464881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-191	Mir191	102466265	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	0.00	0.93
microRNA mir-192	Mir192	102464882	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-193b	Mir193b	102466534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-194	Mir194	102464883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1949	Mir1949	102466111	0.00	0.00	0.00	0.00	0.00	0.00	3.04	4.58	2.48	9.27	5.17	4.67
microRNA mir-195	Mir195	102464884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1956	Mir1956	102464885	0.00	0.00	0.00	0.00	0.00	0.00	5.32	10.07	9.94	15.07	9.31	13.09
microRNA mir-196a	Mir196a	102464886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-196b	Mir196b	102466535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	1.87
microRNA mir-196c	Mir196c	102464887	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-1973	Mir1973	102464888	0.00	0.00	0.00	0.00	0.00	0.00	385.85	420.00	296.86	268.87	342.58	314.98
microRNA mir-199a	Mir199a	102464889	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	3.73	2.32	1.03	3.74
microRNA mir-19a	Mir19a	102466536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
microRNA mir-19b	Mir19b	102464890	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	1.03	2.80
microRNA mir-200b	Mir200b	102464891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-200c	Mir200c	102464892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-204	Mir204	102466537	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-205	Mir205	102464893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-206	Mir206	102464894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-20a	Mir20a	102466956	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
microRNA mir-21	Mir21	100689258	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	1.03	1.87
microRNA mir-210	Mir210	102464895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-212	Mir212	102465947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-214	Mir214	102466538	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-215	Mir215	102464896	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93

microRNA mir-218a	Mir218a	102464897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-22	Mir22	102464898	0.00	0.00	0.00	0.00	0.00	0.00	22.79	22.88	17.39	30.13	13.45	20.56
microRNA mir-221	Mir221	102464899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	1.16	1.03	0.00
microRNA mir-222	Mir222	102464900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
microRNA mir-23a	Mir23a	102466539	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.92	6.21	4.64	4.14	2.80
microRNA mir-23b	Mir23b	102464901	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
microRNA mir-24	Mir24	102464902	0.00	0.00	0.00	0.00	0.00	0.00	8.35	10.98	11.18	8.11	8.28	15.89
microRNA mir-2424	Mir2424	102466113	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	2.48	2.32	1.03	1.87
microRNA mir-25	Mir25	102464903	0.00	0.00	0.00	0.00	0.00	0.00	14.43	21.96	13.66	10.43	15.52	9.35
microRNA mir-26a	Mir26a	102466540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
microRNA mir-26b	Mir26b	102464904	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
microRNA mir-27a	Mir27a	102464905	0.00	0.00	0.00	0.00	0.00	0.00	0.76	3.66	6.21	8.11	0.00	1.87
microRNA mir-27b	Mir27b	102464906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
microRNA mir-28	Mir28	102466541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-296	Mir296	102464907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-298	Mir298	102464908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-29a	Mir29a	102466114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-29b	Mir29b	102464909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-29c	Mir29c	102466542	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-300	Mir300	102465948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-301a	Mir301a	102464910	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
microRNA mir-3072	Mir3072	102464911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-30a	Mir30a	102464912	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-30b	Mir30b	102466543	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	1.24	2.32	4.14	0.93
microRNA mir-30c	Mir30c	102464913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-30e	Mir30e	102464914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-31	Mir31	102464915	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-32	Mir32	102464916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-320a	Mir320a	102466544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
microRNA mir-322	Mir322	102464917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-325	Mir325	102464919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-326	Mir326	102466545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-328	Mir328	102466116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-33	Mir33	102464920	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-331	Mir331	102464921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-338	Mir338	102464922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-339	Mir339	102466546	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-340	Mir340	102464923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-342	Mir342	102464924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-344	Mir344	102466903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
microRNA mir-345	Mir345	102464925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-34a	Mir34a	102466547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

microRNA mir-34b	Mir34b	102466957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-34c	Mir34c	102464926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-350	Mir350	102464927	0.00	0.00	0.00	0.00	0.00	0.00	2.28	4.58	0.00	2.32	2.07	0.93
microRNA mir-361	Mir361	102466548	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-362	Mir362	102464928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-365	Mir365	102464929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-369	Mir369	102464930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-374	Mir374	102466117	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-377	Mir377	102466549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-378	Mir378	102464931	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-379	Mir379	102464932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-381	Mir381	102464933	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-382	Mir382	102466550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-384	Mir384	102464934	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-409	Mir409	102464935	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-410	Mir410	102466118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-412	Mir412	102464936	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-423	Mir423	102464937	0.00	0.00	0.00	0.00	0.00	0.00	2.28	2.75	1.24	2.32	2.07	2.80
microRNA mir-425	Mir425	102466551	0.00	0.00	0.00	0.00	0.00	0.00	8.35	5.49	4.97	5.79	7.24	5.61
microRNA mir-429	Mir429	102465949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-450a	Mir450a	102464938	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-450b	Mir450b	102464939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-455	Mir455	102464940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-484	Mir484	102466552	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
microRNA mir-486	Mir486	102464941	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-496	Mir496	102466119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-497	Mir497	102464942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
microRNA mir-499	Mir499	102464943	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-503	Mir503	102464945	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-504	Mir504	102464946	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-505	Mir505	102466554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-532	Mir532	102466958	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-542	Mir542	102464947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-582	Mir582	102464948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-598	Mir598	102464949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-6091	Mir6091	102464963	0.00	0.00	0.00	0.00	0.00	0.00	15.19	10.98	8.69	1.16	4.14	7.48
microRNA mir-6092	Mir6092	102464964	0.00	0.00	0.00	0.00	0.00	0.00	15.19	14.64	3.73	4.64	2.07	6.54
microRNA mir-615	Mir615	102466555	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-628	Mir628	102464950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	1.87
microRNA mir-632	Mir632	102464951	0.00	0.00	0.00	0.00	0.00	0.00	201.28	224.18	272.02	187.75	209.07	191.61
microRNA mir-652	Mir652	102464952	0.00	0.00	0.00	0.00	0.00	0.00	0.76	2.75	0.00	1.16	0.00	0.93
microRNA mir-653	Mir653	102465950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-664	Mir664	102466556	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00

microRNA mir-671	Mir671	102466120	0.00	0.00	0.00	0.00	0.00	0.00	49.37	52.16	50.93	15.07	12.42	13.09
microRNA mir-674	Mir674	102464954	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
microRNA mir-702	Mir702	102464955	0.00	0.00	0.00	0.00	0.00	0.00	364.58	355.95	397.47	363.90	329.13	329.00
microRNA mir-708	Mir708	102466557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
microRNA mir-744	Mir744	102464956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-7a	Mir7a	102466467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-7b	Mir7b	102464957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-872	Mir872	102464958	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00
microRNA mir-874	Mir874	102466121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-9	Mir9	102466558	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	2.32	8.28	5.61
microRNA mir-92a	Mir92a	102464959	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	3.73	3.48	7.24	5.61
microRNA mir-92b	Mir92b	102464960	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
microRNA mir-93	Mir93	102464961	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.93
microRNA mir-98	Mir98	102466559	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
microRNA mir-99a	Mir99a	102464962	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	0.00
microRNA let-7a	Mirlet7a	102466520	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
microRNA let-7b	Mirlet7b	102464838	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
microRNA let-7c	Mirlet7c	102464839	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
microRNA let-7d	Mirlet7d	102465945	0.00	0.00	0.00	0.00	0.00	0.00	15.19	23.79	16.15	13.91	13.45	18.69
microRNA let-7f	Mirlet7f	102464840	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	3.73	3.48	4.14	2.80
microRNA let-7g	Mirlet7g	102464841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
MIS12 kinetochore complex component	Mis12	100755819	6.16	6.42	4.87	7.20	7.49	6.80	136.72	143.66	132.90	157.61	166.63	162.63
MIS18 kinetochore protein A	Mis18a	100766257	8.13	8.84	10.14	8.73	12.31	9.15	205.08	227.84	265.81	232.94	309.46	254.23
MIS18 binding protein 1	Mis18bp 1	100768675	5.28	5.35	5.50	7.06	7.99	6.92	584.85	597.52	616.08	775.32	880.77	774.84
mitotic spindle positioning	Misp	100762722	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.93
MIT, microtubule interacting and transport, domain containing 1	Mitd1	100763616	13.96	15.78	14.72	14.50	18.69	17.11	480.03	526.14	516.71	513.40	644.80	598.19
microphthalmia-associated transcription factor	Mitf	100754846	5.90	5.82	6.93	7.84	8.60	8.76	830.18	823.53	991.19	1098.66	1227.49	1244.05
Mix paired-like homeobox	Mixl1	100774111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
marker of proliferation Ki-67	Mki67	100756884	32.03	31.06	28.95	38.59	41.74	37.02	9621.84	9375.43	8826.27	11699.30	12562.66	11318.85
McKusick-Kaufman syndrome	Mkks	100769625	11.20	11.05	12.98	13.59	14.23	12.78	920.56	923.27	1073.16	1105.61	1160.22	1039.35
megakaryoblastic leukemia (translocation) 1	Mkl1	100770457	16.30	16.31	17.76	12.76	7.88	9.53	2010.50	2018.56	2188.56	1584.24	988.41	1186.10
MKL/myocardin-like 2	Mkl2	100771346	6.35	6.05	5.71	6.47	6.12	5.98	1486.42	1421.05	1350.15	1537.89	1438.63	1402.00
muskelin 1, intracellular mediator containing kelch motifs	Mkln1	100754523	16.69	17.19	18.78	20.61	23.53	22.82	1422.62	1487.84	1635.83	1762.72	2054.45	1922.62
MAP kinase interacting serine/threonine kinase 1	Mknk1	100759870	38.55	39.86	40.96	42.09	37.83	42.04	2912.07	2934.51	3045.60	2871.80	2549.17	2786.25
MAP kinase interacting serine/threonine kinase 2	Mknk2	100769766	12.79	12.17	16.50	11.38	7.03	8.53	1276.79	1228.89	1644.52	1143.85	699.65	847.75
makorin ring finger protein 2	Mkrn2	100769305	26.73	26.72	26.33	28.20	26.68	29.65	1180.32	1195.03	1187.44	1252.79	1200.58	1289.84

makorin ring finger protein 3	Mkrn3	100770562	4.17	3.94	2.27	2.10	2.71	2.64	294.70	276.34	163.96	150.66	188.37	186.93
Meckel syndrome, type 1	Mks1	100751654	4.08	4.09	1.70	1.92	1.59	1.67	346.35	362.35	146.57	176.16	152.14	153.29
mohawk homeobox	Mkx	100770324	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
melan-A	Mlana	100762259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
megalencephalic leukoencephalopathy with subcortical cysts 1	Mlc1	100758882	0.15	0.21	0.00	0.04	0.00	0.00	7.60	10.98	0.00	1.16	0.00	0.00
malectin	Mlec	100755466	54.21	55.13	75.33	71.90	74.41	79.61	6677.11	6740.14	9361.61	8893.55	9295.21	9892.54
myeloid leukemia factor 1	Mlf1	100758216	8.22	8.44	9.39	11.23	13.08	10.75	574.21	606.67	658.31	783.43	910.79	741.19
myeloid leukemia factor 2	Mlf2	100766182	139.01	138.32	138.59	128.10	111.64	121.29	4876.24	4865.23	4891.34	4504.72	3905.00	4240.60
mutL homolog 1	Mlh1	100769879	13.43	13.48	13.25	13.86	15.07	16.19	1026.90	1026.67	1053.29	1094.02	1162.29	1234.70
mutL homolog 3	Mlh3	100755089	1.96	2.40	1.40	1.40	1.74	1.94	317.49	387.97	218.61	227.15	284.62	305.64
muscular LMNA-interacting protein	Mlip	100752614	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
mixed lineage kinase domain-like	Mlkl	100772478	21.12	22.00	36.65	39.92	28.92	29.78	1588.20	1643.40	2804.63	3045.64	2123.79	2229.19
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 1	Mllt1	100773703	37.36	36.79	34.80	26.47	15.68	17.60	3952.64	3874.25	3742.41	2801.11	1645.63	1850.65
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	Mllt10	100754095	8.14	8.59	8.50	8.93	10.35	9.44	1213.74	1246.28	1265.69	1332.76	1493.49	1413.22
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11	Mllt11	100767933	5.28	4.05	2.00	2.28	2.15	1.76	250.65	202.22	105.58	105.46	94.18	80.38
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	Mllt3	100768593	8.99	9.66	9.32	9.89	11.91	10.16	855.24	920.52	895.54	929.45	1138.48	960.84
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4	Mllt4	100751158	10.46	10.51	11.32	12.13	13.46	12.66	2246.72	2260.13	2443.18	2623.79	2890.72	2760.08
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6	Mllt6	100764936	12.93	12.81	9.96	7.92	5.64	6.46	1550.22	1537.26	1206.07	966.54	677.92	786.99
melanophilin	Mlph	100759576	1.01	1.14	1.18	1.11	1.54	1.71	69.88	75.95	74.53	85.76	108.67	112.16
MTOR associated protein, LST8 homolog (S. cerevisiae)	Mlst8	100757018	13.56	12.47	14.87	14.42	13.12	12.69	614.47	581.05	683.15	649.00	602.36	572.95
MLX, MAX dimerization protein	Mlx	100758188	30.36	31.51	26.63	26.15	26.99	26.78	1386.92	1453.07	1214.76	1158.92	1209.90	1175.81
MLX interacting protein	Mlxip	100768794	6.00	5.76	5.95	5.73	5.63	5.74	835.49	803.40	830.96	790.38	781.41	808.49
MLX interacting protein-like	Mlxipl	100760281	0.00	0.04	0.00	0.03	0.01	0.01	0.00	4.58	0.00	2.32	1.03	1.87
malonyl-CoA decarboxylase	Mlycd	100759191	8.29	7.66	10.34	10.63	9.03	10.58	480.03	447.45	603.65	609.59	530.95	615.95
methylmalonic aciduria (cobalamin deficiency) cblA type	Mmaa	100772148	4.26	4.12	5.17	4.10	4.73	4.38	173.93	163.79	203.70	158.77	181.12	165.44
methylmalonic aciduria (cobalamin deficiency) cblB type	Mmab	100751940	19.36	18.61	22.39	20.44	18.79	18.12	583.33	570.07	673.21	609.59	557.86	529.02
methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria	Mmachc	100751045	29.09	29.26	26.86	27.22	27.54	29.83	1935.31	1949.94	1784.88	1804.44	1802.95	1958.13
methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria	Mmadhc	100751326	91.84	94.79	83.18	87.28	94.82	92.28	3271.34	3399.35	2981.01	3044.48	3303.68	3242.37
monocyte to macrophage differentiation-associated	Mmd	100759398	4.62	4.65	2.57	2.67	3.26	3.59	328.88	322.09	183.83	183.11	212.17	233.67

monocyte to macrophage differentiation-associated 2	Mmd2	100759567	0.00	0.04	0.00	0.00	0.00	0.00	0.76	4.58	1.24	1.16	1.03	3.74
membrane metallo-endopeptidase	Mme	100756999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane metallo-endopeptidase-like 1	Mmel1	100755223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane magnesium transporter 1	Mmgt1	100764155	8.95	9.69	7.87	7.39	9.79	10.11	282.55	316.60	263.32	245.69	333.27	321.53
matrix metallopeptidase 1 (interstitial collagenase)	Mmp1	100754854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix metallopeptidase 10 (stromelysin 2)	Mmp10	100755142	0.30	0.31	0.10	0.12	0.02	0.04	14.43	15.56	4.97	5.79	1.03	1.87
matrix metallopeptidase 11 (stromelysin 3)	Mmp11	100769414	6.27	5.49	6.07	6.21	4.91	5.79	387.37	345.88	375.11	391.71	293.94	357.04
matrix metallopeptidase 12 (macrophage elastase)	Mmp12	100754279	1.50	1.91	0.03	0.10	0.00	0.00	77.47	96.99	1.24	5.79	0.00	0.00
matrix metallopeptidase 13 (collagenase 3)	Mmp13	100759377	0.12	0.04	0.00	0.05	0.00	0.04	6.84	2.75	0.00	2.32	0.00	1.87
matrix metallopeptidase 14 (membrane-inserted)	Mmp14	100689336	34.30	35.33	38.80	39.56	34.01	34.84	2141.90	2193.34	2382.32	2265.69	1957.16	1993.65
matrix metallopeptidase 15 (membrane-inserted)	Mmp15	100760034	0.01	0.01	0.04	0.01	0.02	0.07	0.76	0.92	4.97	1.16	2.07	7.48
matrix metallopeptidase 16 (membrane-inserted)	Mmp16	100762646	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix metallopeptidase 17 (membrane-inserted)	Mmp17	100757244	0.77	0.97	0.26	0.21	0.19	0.25	96.46	122.61	52.17	53.31	37.26	40.19
matrix metallopeptidase 19	Mmp19	100770555	9.35	9.46	5.93	6.20	20.32	20.42	605.35	620.39	393.74	406.78	1334.10	1359.01
matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	Mmp2	100774744	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
matrix metallopeptidase 20	Mmp20	100755720	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix metallopeptidase 21	Mmp21	100756697	0.18	0.12	0.33	0.34	0.28	0.27	20.51	12.81	31.05	32.45	27.94	24.30
matrix metallopeptidase 23B	Mmp23 b	100774158	7.46	7.21	8.35	7.28	5.93	6.31	190.64	191.24	245.93	190.06	149.04	172.91
matrix metallopeptidase 24 (membrane-inserted)	Mmp24	100761156	0.91	1.05	0.82	0.97	1.00	1.06	214.95	221.44	209.91	188.90	157.32	215.91
matrix metallopeptidase 25	Mmp25	100774116	0.00	0.05	0.02	0.02	0.03	0.00	0.00	5.49	2.48	1.16	2.07	0.00
matrix metallopeptidase 27	Mmp27	100755427	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix metallopeptidase 28	Mmp28	100774040	1.74	1.60	0.67	0.58	0.63	0.66	111.65	101.57	49.68	42.88	43.47	60.75
matrix metallopeptidase 7 (matrilysin, uterine)	Mmp7	100760540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
matrix metallopeptidase 8 (neutrophil collagenase)	Mmp8	100759953	0.02	0.08	0.00	0.00	0.00	0.00	0.76	3.66	0.00	0.00	0.00	0.00
matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	Mmp9	100770707	40.94	39.93	19.23	14.34	14.62	16.13	2871.82	2858.56	1358.84	1022.17	1023.60	1125.34
multimerin 1	Mmrn1	100774475	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
multimerin 2	Mmrn2	100774816	0.00	0.06	0.06	0.03	0.04	0.05	1.52	6.41	8.69	8.11	5.17	6.54
MMS19 nucleotide excision repair homolog (S. cerevisiae)	Mms19	100766371	13.11	12.56	14.25	14.26	13.20	14.24	1540.35	1529.02	1711.60	1686.23	1565.93	1641.28

MMS22-like, DNA repair protein	Mms22l	100768068	8.76	9.12	10.60	13.02	13.79	12.70	1081.58	1114.51	1322.82	1599.31	1670.47	1559.96
meningioma (disrupted in balanced translocation) 1	Mn1	100772060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MNAT CDK-activating kinase assembly factor 1	Mnat1	100770765	75.30	83.73	75.16	80.80	81.81	82.09	1944.42	2212.55	1978.64	2029.27	2112.41	2056.27
meiotic nuclear divisions 1 homolog (S. cerevisiae)	Mnd1	100772049	18.92	20.15	19.55	21.75	24.74	19.34	492.18	537.12	490.62	528.47	605.47	477.62
meiosis-specific nuclear structural 1	Mns1	100770101	10.01	10.62	10.89	13.04	15.14	14.56	549.15	561.83	588.75	710.42	804.18	757.08
MAX network transcriptional repressor	Mnt	100766817	4.96	4.46	4.54	4.87	3.10	3.60	494.46	445.62	453.36	480.95	305.32	358.91
motor neuron and pancreas homeobox 1	Mnx1	100751599	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
modulator of apoptosis 1	Moap1	100766130	29.22	29.69	32.74	27.45	35.67	34.30	1337.55	1360.65	1530.25	1296.83	1693.24	1602.02
MOB kinase activator 1A	Mob1a	100771226	48.86	50.09	46.12	51.29	53.28	51.88	5474.76	5618.31	5219.25	5757.51	5932.54	5828.60
MOB kinase activator 1B	Mob1b	100751008	6.50	6.46	5.62	6.62	7.58	6.77	277.23	274.51	237.24	274.66	318.78	301.90
MOB kinase activator 2	Mob2	100767788	16.88	15.53	18.70	15.52	13.56	14.93	695.74	642.35	771.34	635.09	576.49	615.01
MOB kinase activator 3A	Mob3a	100770056	17.56	17.46	16.28	16.31	15.43	15.76	1399.83	1411.90	1312.89	1310.74	1224.39	1264.61
MOB kinase activator 3B	Mob3b	100766702	5.70	5.60	7.73	8.43	9.14	10.32	230.90	225.10	314.25	327.97	367.42	408.45
MOB kinase activator 3C	Mob3c	100770409	1.42	1.30	1.22	1.41	1.04	1.13	144.31	133.59	134.15	140.23	104.53	121.51
myelin-associated oligodendrocyte basic protein	Mobp	100773445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
molybdenum cofactor sulfurase	Mocos	103158571	0.15	0.19	0.00	0.06	0.11	0.00	4.56	4.58	0.00	2.32	4.14	0.93
molybdenum cofactor synthesis 1	Mocs1	100764408	5.56	5.72	7.74	6.84	6.30	5.83	420.78	447.45	603.65	506.45	486.44	462.66
molybdenum cofactor synthesis 2	Mocs2	100773226	32.57	32.73	31.91	36.68	43.51	43.05	1762.13	1764.18	1712.84	1964.37	2318.37	2279.66
molybdenum cofactor synthesis 3	Mocs3	100761655	18.08	17.43	18.33	15.16	14.86	16.48	318.25	312.03	315.49	263.07	251.50	292.55
myelin oligodendrocyte glycoprotein	Mog	100750793	0.03	0.00	0.00	0.00	0.00	0.08	1.52	1.83	0.00	0.00	1.03	3.74
monoacylglycerol O-acyltransferase 1	Mogat1	100761111	0.06	0.07	0.10	0.11	0.12	0.09	5.32	4.58	4.97	6.95	10.35	8.41
monoacylglycerol O-acyltransferase 2	Mogat2	100766858	0.03	0.00	0.03	0.03	0.00	0.04	1.52	0.00	1.24	1.16	0.00	1.87
monoacylglycerol O-acyltransferase 3	Mogat3	100769277	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.92	1.24	0.00	1.03	0.93
mannosyl-oligosaccharide glucosidase	Mogs	100689098	22.72	21.26	27.11	24.65	19.34	21.15	1512.24	1422.88	1823.38	1622.49	1275.10	1394.53
MOK protein kinase	Mok	100772524	1.72	1.20	1.44	1.16	1.58	1.32	83.55	72.29	81.98	73.01	84.87	75.71
MON1 secretory trafficking family member A	Mon1a	100756332	7.90	7.89	7.94	5.28	3.97	4.13	479.27	481.31	486.90	322.18	233.91	251.43
MON1 secretory trafficking family member B	Mon1b	100761265	11.70	12.18	13.28	12.35	12.07	12.45	1570.73	1622.35	1797.30	1649.14	1621.82	1723.53
MON2 homolog (S. cerevisiae)	Mon2	100758745	8.75	8.70	9.24	10.42	11.25	10.88	2307.48	2308.63	2427.04	2710.71	2926.94	2851.68
MORC family CW-type zinc finger 1	Morc1	100759800	0.13	0.13	0.00	0.00	0.01	0.01	15.95	12.81	0.00	1.16	1.03	2.80
MORC family CW-type zinc finger 2	Morc2	100764189	70.64	69.86	69.30	76.79	72.57	71.71	5774.02	5716.21	5765.77	6188.63	5897.35	5857.57
MORC family CW-type zinc finger 3	Morc3	100753438	14.26	14.03	13.09	14.25	15.06	14.20	1727.19	1712.94	1612.23	1797.48	1848.49	1740.35
MORC family CW-type zinc finger 4	Morc4	100762949	24.43	24.67	29.07	33.15	36.86	33.98	4724.33	4816.74	5711.12	6438.96	7164.18	6596.90
mortality factor 4 like 1	Morf4l1	100765879	226.24	217.59	119.65	126.40	135.36	147.86	9713.75	9410.20	5124.85	5388.98	5778.33	6322.11
mortality factor 4 like 2	Morf4l2	100767218	256.17	253.76	244.75	244.94	231.02	239.38	12124.52	11992.43	11642.08	11583.40	10972.92	11478.68
MORN repeat containing 1	Morn1	100757445	1.08	0.96	1.69	1.75	1.40	1.03	82.79	87.84	110.55	122.85	127.30	101.88
MORN repeat containing 2	Morn2	100758093	13.20	14.02	8.10	8.35	8.04	9.73	221.03	226.93	139.11	137.91	142.83	168.24

MORN repeat containing 3	Morn3	100752696	0.13	0.18	0.22	0.32	0.42	0.40	12.91	15.56	21.12	34.77	36.22	37.39
MORN repeat containing 4	Morn4	100759394	16.00	17.11	13.59	14.89	11.72	11.22	778.53	838.17	665.76	730.12	563.03	543.98
MORN repeat containing 5	Morn5	100771149	8.15	7.76	5.51	4.54	4.18	3.79	149.63	150.07	96.88	81.12	80.73	64.49
v-mos Moloney murine sarcoma viral oncogene homolog	Mos	100756276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
motile sperm domain containing 1	Mospd1	100768341	11.55	12.57	13.01	12.25	17.01	14.10	603.07	678.04	693.08	637.41	881.81	755.21
motile sperm domain containing 2	Mospd2	100750487	4.84	4.59	4.97	6.01	6.87	6.81	341.03	335.82	371.38	410.26	497.83	472.01
motile sperm domain containing 3	Mospd3	100752464	51.74	53.50	64.94	46.74	28.23	29.49	1396.79	1398.17	1592.36	1170.51	760.71	781.38
Mov10, Moloney leukemia virus 10, homolog (mouse)	Mov10	100750814	5.62	5.22	9.22	8.17	5.93	6.48	612.95	561.83	1004.85	888.89	645.83	710.35
Mov10l1, Moloney leukemia virus 10-like 1, homolog (mouse)	Mov10l1	100757732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
monooxygenase, DBH-like 1	Moxd1	100758693	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial pyruvate carrier 1	Mpc1	100756279	42.72	43.54	43.79	45.51	51.75	51.97	888.66	923.27	915.42	948.00	1070.18	1058.98
mitochondrial pyruvate carrier 1-like	Mpc1l	103161217	0.18	0.28	0.21	0.14	0.15	0.24	8.35	11.90	8.69	10.43	11.38	12.15
mitochondrial pyruvate carrier 2	Mpc2	100766986	35.17	35.58	40.12	41.15	46.31	45.00	584.09	598.43	639.67	649.00	757.61	742.13
mannose-P-dolichol utilization defect 1	Mpdu1	100689049	12.30	11.34	12.82	12.70	10.66	14.12	559.78	535.29	639.67	620.02	534.05	637.44
multiple PDZ domain protein	Mpdz	100752160	10.22	10.18	9.74	11.12	11.88	10.90	2430.53	2429.41	2321.46	2638.86	2803.78	2574.08
macrophage expressed 1	Mpeg1	100755820	0.01	0.02	0.01	0.01	0.00	0.01	1.52	2.75	1.24	1.16	0.00	0.93
N-methylpurine-DNA glycosylase	Mpg	100758892	9.29	9.88	8.26	5.63	4.49	5.11	498.26	531.63	468.27	351.15	285.66	314.98
M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein)	Mphosph10	100762733	62.97	60.90	59.72	65.32	67.78	61.01	3882.76	3781.83	3713.84	4022.61	4178.24	3715.31
M-phase phosphoprotein 6	Mphosph6	100751608	25.27	28.34	24.09	28.31	27.99	25.94	1102.09	1208.76	1037.14	1205.28	1191.27	1125.34
M-phase phosphoprotein 8	Mphosph8	100752223	21.51	20.48	21.57	23.78	24.92	22.55	1909.48	1815.43	1966.22	2154.43	2210.73	1996.45
M-phase phosphoprotein 9	Mphosph9	100771041	3.58	3.63	3.55	3.77	4.54	4.21	815.75	802.48	783.76	859.92	1020.50	935.60
mannose phosphate isomerase	Mpi	100764596	36.33	37.08	53.00	57.28	59.60	67.01	1849.48	1899.61	2707.75	2870.64	2996.29	3373.22
myeloproliferative leukemia virus oncogene	Mpl	100768051	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	2.32	0.00	0.00
M-phase specific PLK1 interacting protein	Mplkip	100769925	18.85	20.35	19.19	19.86	20.16	20.99	546.87	638.69	612.35	669.86	655.15	703.81
MPN domain containing	Mpnd	100756243	13.39	14.14	14.08	10.49	6.89	7.79	644.85	674.38	673.21	508.77	332.23	378.54
myeloperoxidase	Mpo	100752227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane protein, palmitoylated 1, 55kDa	Mpp1	100755110	13.88	14.07	15.41	15.92	18.70	18.51	821.82	829.02	924.11	938.73	1114.68	1082.35
membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2)	Mpp2	100752145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3)	Mpp3	100751861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)	Mpp4	100766366	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.87
membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	Mpp5	100762203	13.02	11.97	11.73	13.29	14.55	13.53	1007.15	968.11	929.08	1062.73	1147.80	1048.70
membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	Mpp6	100757964	30.63	31.41	27.60	31.08	30.20	28.53	3472.61	3627.19	3215.76	3554.41	3435.12	3230.22

membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	Mpp7	100772723	0.37	0.36	0.07	0.12	0.08	0.06	47.09	45.75	8.69	13.91	11.38	7.48
metallophosphoesterase 1	Mppe1	100689457	6.20	5.84	6.94	6.33	6.09	6.18	303.06	282.75	344.06	304.80	300.15	301.90
metallophosphoesterase domain containing 1	Mpped1	100769889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metallophosphoesterase domain containing 2	Mpped2	100765784	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mercaptopyruvate sulfurtransferase	Mpst	100763920	20.82	20.37	23.19	19.33	15.11	16.20	725.36	709.15	792.45	665.22	511.28	555.19
MpV17 mitochondrial inner membrane protein	Mpv17	100766363	70.66	67.34	71.65	73.81	60.61	69.01	1868.47	1805.36	1925.23	1928.44	1629.07	1797.37
MPV17 mitochondrial membrane protein-like	Mpv17l	100751270	3.49	3.87	3.82	3.56	5.37	4.55	120.77	128.10	137.87	121.69	173.88	161.70
MPV17 mitochondrial membrane protein-like 2	Mpv17l2	100770899	23.12	21.33	27.74	25.74	28.27	28.15	511.17	468.50	606.14	549.33	578.56	590.71
myelin protein zero	Mpz	100770558	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
myelin protein zero-like 1	Mpzl1	100770436	14.21	14.68	14.07	12.88	15.34	15.44	666.12	691.77	670.73	622.34	710.00	717.83
myelin protein zero-like 2	Mpzl2	100751338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	3.10	1.87
myelin protein zero-like 3	Mpzl3	100751630	0.04	0.03	0.01	0.03	0.05	0.05	4.56	3.66	1.24	2.32	4.14	4.67
melanocortin 2 receptor accessory protein	Mrap	100766546	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00
melanocortin 2 receptor accessory protein 2	Mrap2	100760244	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
muscle RAS oncogene homolog	Mras	100767950	8.89	8.56	5.82	5.37	4.82	4.88	1044.37	1025.75	681.91	632.77	558.89	576.69
mannose receptor, C type 1	Mrc1	100771586	0.10	0.08	0.02	0.02	0.04	0.03	15.95	13.73	3.73	3.48	9.31	3.74
mannose receptor, C type 2	Mrc2	100752611	0.01	0.00	0.00	0.01	0.02	0.00	0.76	0.00	0.00	1.16	3.10	0.00
MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	Mre11a	100750877	24.61	26.95	26.57	30.47	33.46	30.87	2235.32	2499.87	2424.55	2731.57	2965.24	2750.73
melanoregulin	Mreg	100756624	0.00	0.00	0.00	0.00	0.00	0.05	0.76	0.00	0.00	0.00	0.00	0.93
Morf4 family associated protein 1	Mrfap1	100769822	155.23	150.07	163.69	154.83	166.27	178.77	6740.15	6512.29	7138.27	6678.86	7148.65	7751.22
MRG/MORF4L binding protein	Mrgbp	100757027	11.06	12.03	11.71	10.30	11.27	12.99	540.79	592.03	596.20	519.20	531.98	609.40
MAS-related GPR, member D	Mrgprd	100755716	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAS-related GPR, member E	Mrgpre	100750699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAS-related GPR, member F	Mrgprf	100754930	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
MAS-related GPR, member G	Mrgprg	100750410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methylthioribose-1-phosphate isomerase 1	Mri1	100765916	15.48	15.27	18.10	16.03	11.36	12.24	541.55	543.53	630.98	565.55	403.64	435.56
mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae)	Mrm1	100758744	6.13	6.30	4.04	3.20	2.87	4.04	303.82	312.94	192.52	151.82	135.58	181.33
maestro	Mro	100771601	1.50	1.63	0.04	0.13	0.73	1.34	58.48	69.54	1.24	4.64	33.12	54.21
maestro heat-like repeat family member 1	Mroh1	100756270	3.79	3.49	4.57	4.21	2.89	3.25	707.13	666.14	845.86	778.79	545.44	616.88
maestro heat-like repeat family member 2A	Mroh2a	100756011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
maestro heat-like repeat family member 2B	Mroh2b	100767277	0.07	0.07	0.06	0.05	0.02	0.08	11.39	12.81	9.94	6.95	3.10	11.22
maestro heat-like repeat family member 5	Mroh5	100766448	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
maestro heat-like repeat family member 6	Mroh6	100758885	0.09	0.14	0.09	0.16	0.14	0.09	12.91	13.73	8.69	19.70	16.56	10.28
maestro heat-like repeat family member 7	Mroh7	100752079	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.92	1.24	0.00	0.00	0.93

maestro heat-like repeat family member 8	Mroh8	100764023	0.54	0.52	0.67	0.79	1.26	1.01	111.65	133.59	140.36	191.22	285.66	248.62
maestro heat-like repeat family member 9	Mroh9	100753644	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.92	1.24	2.32	1.03	0.00
mitochondrial ribosomal protein L1	Mrpl1	100760353	56.90	54.65	48.50	54.52	54.06	56.71	1888.97	1854.77	1629.62	1810.23	1807.09	1844.10
mitochondrial ribosomal protein L10	Mrpl10	100754497	75.13	75.48	50.33	50.61	49.83	52.20	3010.81	3045.23	2008.45	2016.52	1955.09	2088.99
mitochondrial ribosomal protein L11	Mrpl11	100761388	102.18	101.19	99.73	87.74	83.65	92.21	2215.58	2200.66	2120.24	1856.59	1797.77	1989.91
mitochondrial ribosomal protein L12	Mrpl12	100755729	372.43	398.41	245.23	217.39	138.26	152.21	8337.46	8960.92	5483.81	4723.76	3087.36	3384.44
mitochondrial ribosomal protein L13	Mrpl13	100763748	102.15	92.34	63.62	65.58	71.18	68.40	2896.88	2801.83	1861.89	1962.05	2141.39	1977.76
mitochondrial ribosomal protein L14	Mrpl14	100755662	53.04	54.29	59.39	58.10	57.66	54.33	849.16	842.75	912.93	841.38	821.78	793.53
mitochondrial ribosomal protein L15	Mrpl15	100755003	30.07	30.41	34.41	36.11	36.49	37.88	824.10	871.11	945.23	1018.69	978.06	1034.68
mitochondrial ribosomal protein L16	Mrpl16	100756893	60.21	63.63	75.22	72.62	73.85	75.67	2977.39	3093.73	3706.39	3601.92	3640.05	3739.61
mitochondrial ribosomal protein L17	Mrpl17	100758899	68.33	65.86	80.28	76.28	71.17	79.80	1535.79	1495.16	1853.19	1725.63	1631.14	1824.48
mitochondrial ribosomal protein L18	Mrpl18	100760587	57.46	57.04	55.78	53.44	50.17	46.26	2319.63	2277.52	2273.02	2140.53	1999.59	1859.99
mitochondrial ribosomal protein L19	Mrpl19	100766276	55.20	58.77	58.92	55.84	56.93	59.34	1704.41	1822.75	1861.89	1724.47	1783.28	1845.04
mitochondrial ribosomal protein L2	Mrpl2	100773905	60.52	61.55	64.53	54.84	48.85	56.91	1749.22	1773.33	1846.98	1564.54	1448.98	1626.33
mitochondrial ribosomal protein L20	Mrpl20	100771139	145.85	140.63	116.35	115.14	94.96	110.74	2319.63	2323.27	1917.78	1817.19	1521.43	1758.11
mitochondrial ribosomal protein L21	Mrpl21	100754354	18.69	19.93	22.77	20.99	21.94	21.34	1350.46	1429.28	1639.55	1512.39	1550.41	1502.95
mitochondrial ribosomal protein L22	Mrpl22	100766885	27.91	28.60	29.04	28.46	34.02	33.79	527.88	564.58	572.60	531.94	630.31	633.71
mitochondrial ribosomal protein L23	Mrpl23	100769317	73.27	72.09	68.00	71.08	49.69	55.88	1060.32	1053.20	986.22	1001.31	721.39	804.75
mitochondrial ribosomal protein L24	Mrpl24	100752311	113.65	113.54	110.35	109.43	105.24	114.79	2580.15	2571.24	2521.44	2417.51	2354.59	2578.75
mitochondrial ribosomal protein L27	Mrpl27	100759321	64.25	71.39	33.50	28.63	24.47	24.84	999.55	1089.80	521.68	429.96	377.77	381.35
mitochondrial ribosomal protein L28	Mrpl28	100754102	86.57	82.77	94.54	76.28	59.97	68.23	2558.13	2477.91	2784.76	2236.72	1792.60	2019.82
mitochondrial ribosomal protein L3	Mrpl3	100768688	77.03	78.33	72.93	77.13	86.35	89.46	3239.43	3340.79	3054.29	3184.71	3587.26	3686.34
mitochondrial ribosomal protein L30	Mrpl30	100763336	99.14	97.04	100.61	108.51	117.43	113.82	1920.12	1961.83	1957.53	2050.13	2257.31	2167.50
mitochondrial ribosomal protein L32	Mrpl32	100751170	41.27	45.25	45.82	46.96	49.21	45.19	731.44	797.91	796.18	817.04	837.30	772.04
mitochondrial ribosomal protein L33	Mrpl33	100756498	95.07	100.36	88.58	84.62	88.99	81.99	1527.43	1598.56	1382.44	1313.06	1401.37	1276.76
mitochondrial ribosomal protein L34	Mrpl34	100755355	6.83	6.09	4.80	2.47	1.95	1.53	137.48	122.61	89.43	35.93	42.43	35.52
mitochondrial ribosomal protein L35	Mrpl35	100762335	105.95	106.18	100.72	104.40	116.83	117.07	2197.35	2211.64	2076.77	2109.23	2369.08	2351.63
mitochondrial ribosomal protein L36	Mrpl36	100751813	53.70	54.92	64.92	54.22	54.76	56.04	1099.81	1118.17	1321.58	1085.91	1106.40	1133.75
mitochondrial ribosomal protein L37	Mrpl37	100752974	87.46	84.03	90.01	89.21	81.10	89.99	3458.94	3371.90	3603.29	3530.07	3248.82	3543.33
mitochondrial ribosomal protein L38	Mrpl38	100758580	56.50	52.27	59.18	50.97	38.83	45.95	1784.92	1698.30	1904.12	1661.89	1297.87	1449.67
mitochondrial ribosomal protein L39	Mrpl39	100758085	60.77	62.37	57.77	56.57	62.91	59.87	1710.48	1757.78	1630.86	1552.95	1755.34	1645.02
mitochondrial ribosomal protein L4	Mrpl4	100762122	28.15	26.24	35.74	33.54	29.01	32.09	1209.19	1139.22	1525.28	1411.56	1234.74	1339.38
mitochondrial ribosomal protein L40	Mrpl40	100772641	56.01	59.31	66.94	63.16	69.67	67.02	1124.88	1178.56	1307.92	1259.75	1455.19	1372.10
mitochondrial ribosomal protein L41	Mrpl41	100753662	91.64	87.10	93.55	79.47	85.16	90.39	1544.14	1463.14	1557.58	1285.24	1377.57	1463.69
mitochondrial ribosomal protein L42	Mrpl42	100752233	126.63	132.78	108.85	116.71	126.20	110.36	2351.53	2468.76	1978.64	2087.21	2305.95	1996.45
mitochondrial ribosomal protein L43	Mrpl43	100757187	25.29	22.98	24.03	17.62	14.03	16.34	593.20	538.04	563.91	403.30	318.78	373.87
mitochondrial ribosomal protein L44	Mrpl44	100765972	32.42	34.66	35.81	36.40	38.59	38.83	1002.59	1086.14	1122.85	1118.36	1196.44	1201.99
mitochondrial ribosomal protein L45	Mrpl45	100755070	130.55	132.39	111.74	105.98	94.59	101.20	4999.29	5070.20	4265.33	4024.93	3613.14	3847.10
mitochondrial ribosomal protein L46	Mrpl46	100770403	46.83	44.03	44.96	44.52	44.69	46.43	1422.62	1362.48	1413.49	1326.96	1355.83	1393.59
mitochondrial ribosomal protein L47	Mrpl47	100757628	52.89	53.20	44.99	49.15	51.64	48.81	1449.96	1477.78	1268.17	1376.80	1423.11	1312.28
mitochondrial ribosomal protein L48	Mrpl48	100760633	31.27	32.72	28.03	27.42	29.34	26.46	1108.93	1194.12	1038.38	1000.15	1058.79	966.45
mitochondrial ribosomal protein L49	Mrpl49	100765777	38.60	38.15	46.10	48.56	50.63	48.08	1140.07	1139.22	1371.26	1439.38	1467.61	1426.31
mitochondrial ribosomal protein L50	Mrpl50	100755968	70.92	69.72	66.49	73.10	71.58	71.80	1227.42	1215.16	1143.96	1237.73	1211.97	1217.87
mitochondrial ribosomal protein L51	Mrpl51	100752785	49.46	50.80	62.19	60.24	66.45	64.16	2441.16	2553.86	3096.52	2966.83	3274.70	3138.62

mitochondrial ribosomal protein L52	Mrpl52	100764474	68.55	63.39	75.00	58.83	68.16	59.27	525.60	542.61	522.92	416.05	397.43	371.06
mitochondrial ribosomal protein L53	Mrpl53	100762073	29.89	29.60	27.08	16.86	14.21	15.25	769.41	769.54	719.17	435.75	381.91	398.17
mitochondrial ribosomal protein L54	Mrpl54	100763792	57.32	56.73	56.19	44.80	29.72	34.27	825.62	812.55	766.37	602.64	376.74	449.58
mitochondrial ribosomal protein L55	Mrpl55	100770720	38.67	34.40	43.52	34.75	28.44	28.41	526.36	482.22	571.36	436.91	361.21	375.74
mitochondrial ribosomal protein L57	Mrpl57	100759801	56.90	49.58	54.99	38.17	36.56	28.32	568.14	500.52	530.37	343.04	333.27	260.77
mitochondrial ribosomal protein L9	Mrpl9	100770389	70.80	69.90	76.25	77.25	78.09	82.36	2613.57	2606.93	2823.26	2845.15	2897.96	3004.96
mitochondrial ribosomal protein S10	Mrps10	100767194	78.37	78.22	74.22	75.01	72.28	71.14	1890.49	1949.02	1814.69	1834.57	1795.70	1724.47
mitochondrial ribosomal protein S11	Mrps11	100769823	28.83	26.15	29.38	23.86	14.96	17.08	856.00	803.40	879.40	709.26	475.06	521.55
mitochondrial ribosomal protein S12	Mrps12	100760106	23.52	23.03	25.17	18.12	14.93	15.09	359.26	354.12	371.38	261.92	220.45	224.32
mitochondrial ribosomal protein S14	Mrps14	100752801	26.90	27.84	27.86	26.29	29.01	29.61	1095.26	1149.28	1147.69	1077.80	1171.60	1209.46
mitochondrial ribosomal protein S15	Mrps15	100759894	47.79	46.37	50.63	54.49	51.70	50.27	1132.47	1125.49	1199.86	1275.97	1224.39	1163.66
mitochondrial ribosomal protein S16	Mrps16	100762457	35.82	36.16	47.31	38.91	36.78	38.10	650.93	674.38	862.01	769.52	722.42	770.17
mitochondrial ribosomal protein S17	Mrps17	100755491	44.16	41.99	47.31	45.67	47.87	51.02	1579.84	1497.91	1690.48	1596.99	1699.45	1821.67
mitochondrial ribosomal protein S18B	Mrps18 b	100765352	142.16	134.24	138.65	119.61	91.34	97.52	4279.24	4056.34	4156.02	3552.09	2801.71	2924.58
mitochondrial ribosomal protein S18C	Mrps18c	100769266	60.63	50.83	60.75	55.67	51.84	53.86	931.20	820.79	946.47	871.51	847.65	838.40
mitochondrial ribosomal protein S2	Mrps2	100757282	32.86	32.32	34.34	31.48	28.98	31.23	1036.77	1028.50	1086.83	1011.74	975.99	1037.48
mitochondrial ribosomal protein S21	Mrps21	100761829	185.24	187.52	186.92	193.99	197.51	193.30	3741.49	3814.77	3809.48	3876.59	4022.99	3978.89
mitochondrial ribosomal protein S22	Mrps22	100758230	37.39	36.78	17.09	18.55	20.44	20.65	1135.51	1121.83	519.19	557.44	618.92	620.62
mitochondrial ribosomal protein S23	Mrps23	100761716	90.17	89.99	66.57	63.32	61.57	63.78	2734.34	2760.66	2012.18	1914.54	1834.00	1920.75
mitochondrial ribosomal protein S24	Mrps24	100761173	54.23	55.77	52.51	47.72	43.28	39.84	822.58	846.41	793.69	697.67	635.48	585.10
mitochondrial ribosomal protein S25	Mrps25	100766935	72.52	66.69	66.88	58.83	44.95	50.33	1288.94	1225.23	1178.74	1037.23	847.65	881.39
mitochondrial ribosomal protein S26	Mrps26	100769748	26.49	27.37	30.12	27.72	28.48	30.53	630.42	648.76	699.29	631.61	660.32	699.13
mitochondrial ribosomal protein S27	Mrps27	100757512	63.96	62.60	69.44	68.97	61.79	63.20	4118.98	4096.61	4523.68	4430.55	4047.83	4072.36
mitochondrial ribosomal protein S28	Mrps28	103161031	24.07	22.56	24.73	24.29	26.90	18.32	205.08	195.82	203.70	197.02	212.17	151.42
mitochondrial ribosomal protein S30	Mrps30	100753404	23.86	26.59	26.03	26.54	27.50	25.74	1947.46	2174.12	2115.27	2154.43	2239.71	2079.64
mitochondrial ribosomal protein S31	Mrps31	100773319	23.09	23.56	23.54	23.94	26.77	25.32	829.42	856.47	855.80	849.49	958.40	915.98
mitochondrial ribosomal protein S33	Mrps33	100774673	90.33	88.07	88.33	94.78	91.17	91.52	1502.37	1503.40	1445.79	1547.16	1492.45	1472.10
mitochondrial ribosomal protein S34	Mrps34	100752305	60.00	57.63	65.25	54.56	42.59	45.36	1413.50	1391.77	1583.66	1274.81	1009.11	1081.41
mitochondrial ribosomal protein S36	Mrps36	100770556	58.46	59.40	62.91	59.56	58.63	58.89	861.32	851.90	919.14	841.38	831.09	839.33
mitochondrial ribosomal protein S5	Mrps5	100773581	52.56	53.87	54.04	53.35	51.35	51.42	3047.27	3139.48	3173.53	3054.91	2991.11	2949.82
mitochondrial ribosomal protein S6	Mrps6	100770304	24.20	19.89	14.97	13.83	10.17	11.00	358.50	290.07	212.40	193.54	142.83	160.76
mitochondrial ribosomal protein S7	Mrps7	100756199	68.76	64.15	72.76	63.77	46.39	52.62	2154.81	2006.67	2244.45	1951.62	1429.32	1600.15

mitochondrial ribosomal protein S9	Mrps9	100761439	40.44	40.48	39.65	36.60	31.85	34.10	1625.41	1600.39	1551.37	1428.95	1267.86	1360.88
mitochondrial ribosome recycling factor	Mrrf	100769147	11.57	10.37	11.53	12.83	13.72	10.84	410.15	391.63	422.31	455.46	471.95	390.69
MRS2 magnesium transporter	Mrs2	100759806	7.40	7.76	7.52	8.51	9.55	9.67	1825.17	1929.81	1911.57	2109.23	2344.24	2388.08
mRNA turnover 4 homolog (S. cerevisiae)	Mrto4	100750586	180.16	179.91	152.42	149.32	140.44	148.45	7466.27	7533.47	6318.50	6070.42	5673.79	6008.99
murine retrovirus integration site 1 homolog	Mrvi1	100757809	0.31	0.42	0.25	0.26	0.19	0.21	37.22	57.65	33.54	33.61	21.73	26.17
membrane-spanning 4-domains, subfamily A, member 1	Ms4a1	100753107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 10	Ms4a10	100750523	0.00	0.00	0.00	0.00	0.00	0.00	5.32	11.90	1.24	4.64	0.00	0.93
membrane-spanning 4-domains, subfamily A, member 13	Ms4a13	100772510	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 14	Ms4a14	100754368	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 18	Ms4a18	100753692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 2	Ms4a2	100765095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell-specific)	Ms4a3	100765384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 5	Ms4a5	100754076	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 6A	Ms4a6a	100764510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 7	Ms4a7	100754651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
membrane-spanning 4-domains, subfamily A, member 8	Ms4a8	100753986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
Myb/SANT-like DNA-binding domain containing 1	Msantd1	100765021	0.00	0.04	0.06	0.00	0.00	0.05	0.00	0.92	1.24	0.00	0.00	0.93
Myb/SANT-like DNA-binding domain containing 2	Msantd2	100769065	5.17	5.52	7.11	7.74	7.85	7.35	645.61	650.59	725.38	799.65	861.11	836.53
Myb/SANT-like DNA-binding domain containing 3	Msantd3	103158546	5.36	5.35	5.82	6.05	5.98	5.80	576.49	596.60	637.19	654.79	639.62	628.10
Myb/SANT-like DNA-binding domain containing 4 with coiled-coils	Msantd4	100755388	29.48	30.46	35.55	36.25	40.29	38.78	2362.93	2440.39	2858.04	2920.48	3217.77	3142.36
mesogenin 1	Msgn1	100755379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mutS homolog 2	Msh2	100768127	11.81	11.75	13.01	14.74	16.90	16.12	1064.87	1088.89	1189.92	1333.92	1521.43	1457.15
mutS homolog 3	Msh3	100762943	4.81	4.83	5.12	5.35	5.85	5.33	564.34	566.41	582.54	604.96	659.29	621.56
mutS homolog 4	Msh4	100762582	0.01	0.00	0.00	0.00	0.00	0.01	0.76	0.00	0.00	1.16	0.00	0.93
mutS homolog 5	Msh5	100761092	0.60	0.66	0.92	0.92	1.06	0.99	118.49	117.12	147.81	151.82	183.19	184.13
mutS homolog 6	Msh6	100771087	15.52	16.11	19.09	22.46	21.95	20.40	1768.21	1842.88	2205.95	2582.07	2508.81	2348.82
musashi RNA-binding protein 1	Msi1	100764296	0.04	0.13	0.03	0.00	0.00	0.00	1.52	9.15	1.24	0.00	0.00	0.93
musashi RNA-binding protein 2	Msi2	100761137	19.63	19.30	9.75	9.91	10.64	9.87	1773.52	1769.67	888.09	852.97	935.63	891.67
male-specific lethal 1 homolog (Drosophila)	Msl1	100773452	20.06	21.21	16.86	18.19	19.73	18.62	2776.12	2960.13	2355.00	2498.63	2716.84	2598.38
male-specific lethal 2 homolog (Drosophila)	Msl2	100760221	11.25	11.75	6.38	7.61	6.93	6.03	748.15	781.44	422.31	506.45	452.29	396.30
male-specific lethal 3 homolog (Drosophila)	Msl3	100760785	28.11	29.28	29.58	31.23	32.12	32.36	2061.39	2149.41	2186.07	2241.35	2358.73	2344.15

mesothelin	Msln	100761360	2.95	3.74	2.71	2.18	0.96	1.60	187.61	230.59	166.44	134.43	63.13	106.55
microseminoprotein, beta-	Msmb	100756196	0.06	0.08	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
methylsterol monooxygenase 1	Msmo1	100754784	12.11	12.02	18.10	19.96	19.53	19.17	594.72	594.77	899.27	970.02	941.84	936.54
microseminoprotein, prostate associated	Msmp	100755181	1.59	2.05	1.06	2.06	1.34	0.82	254.45	218.69	183.83	206.29	193.54	219.65
moesin	Msn	100751956	95.82	97.90	73.65	75.16	76.00	76.16	10290.24	10546.68	7933.21	7974.53	8052.19	8127.89
macrophage scavenger receptor 1	Msr1	100774161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
methionine sulfoxide reductase A	Msra	100752589	1.08	0.81	1.21	1.66	0.53	0.86	28.86	25.62	34.78	42.88	13.45	22.43
methionine sulfoxide reductase B1	Msrb1	100753803	31.36	30.28	35.69	36.06	39.69	41.38	733.71	722.88	850.83	828.63	919.07	954.30
methionine sulfoxide reductase B2	Msrb2	100752302	7.28	6.88	6.86	7.67	7.93	8.73	218.75	211.37	212.40	228.31	238.05	264.51
methionine sulfoxide reductase B3	Msrb3	100766560	16.22	15.53	16.06	18.28	20.93	20.03	1105.89	1064.18	1073.16	1231.93	1406.55	1370.23
MSS51 mitochondrial translational activator	Mss51	100764691	0.04	0.11	0.00	0.06	0.00	0.02	6.08	9.15	1.24	5.79	0.00	9.35
macrophage stimulating 1 (hepatocyte growth factor-like)	Mst1	100761444	1.42	1.40	1.64	1.19	1.17	1.25	214.19	183.01	216.12	195.86	150.07	179.46
macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	Mst1r	100758551	7.60	7.66	11.87	11.39	6.91	6.82	1027.66	1008.37	1486.78	1387.23	835.23	864.57
myostatin	Mstn	100770972	0.11	0.00	0.00	0.08	0.00	0.10	3.04	0.00	0.00	2.32	1.03	2.80
misato 1, mitochondrial distribution and morphology regulator	Msto1	100753624	19.80	17.76	20.76	19.70	20.37	21.26	1185.64	1104.45	1285.56	1241.20	1277.17	1289.84
msh homeobox 1	Msx1	100752378	6.42	6.08	8.43	7.07	6.53	7.22	325.08	306.54	428.52	353.47	324.99	360.78
msh homeobox 2	Msx2	100761249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
metallothionein 1	Mt1	100689478	1.83	4.41	0.00	0.00	0.00	0.00	76.71	69.54	11.18	13.91	1.03	6.54
metallothionein 2	Mt2	100689479	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
metastasis associated 1	Mta1	100754490	67.25	62.32	58.74	47.83	38.26	38.85	4557.24	4279.61	4024.36	3206.73	2483.97	2566.60
metastasis associated 1 family, member 2	Mta2	100752944	48.97	48.96	49.96	49.53	45.89	50.38	4432.67	4442.49	4593.24	4451.41	4158.57	4551.84
metastasis associated 1 family, member 3	Mta3	100765306	52.11	50.88	54.13	51.20	48.20	49.56	3083.73	3067.19	3364.81	3107.06	3049.07	3048.89
methylthioadenosine phosphorylase	Mtap	100761485	137.93	139.85	135.39	138.89	148.61	134.74	6403.68	6511.38	6297.38	6340.45	6789.51	6187.51
MDM2 binding protein	Mtbp	100754090	107.07	110.69	64.31	63.47	59.89	54.68	1797.07	1889.54	1117.88	1052.30	1034.99	929.06
mitochondrial carrier 1	Mtch1	100750983	68.00	65.06	68.89	57.52	41.68	47.02	3444.51	3317.91	3472.87	2932.07	2204.52	2420.79
mitochondrial carrier 2	Mtch2	100764518	95.04	87.18	87.86	94.25	98.06	99.48	2878.65	2760.66	2819.54	2875.28	2982.83	2965.71
microtubule crosslinking factor 1	Mtcl1	100762627	21.20	21.59	22.57	18.23	16.02	16.48	3793.90	3861.44	4040.51	3220.64	2837.93	2904.02
mature T-cell proliferation 1	Mtcp1	100753735	2.33	2.25	2.36	2.69	2.65	2.09	49.37	55.82	49.68	53.31	49.68	46.73
metadherin	Mtdh	100753818	57.16	56.74	61.84	65.49	59.15	56.07	5204.36	5084.84	5563.31	5897.74	5296.02	5065.91
mitochondrial transcription termination factor	Mterf	100766534	12.27	12.41	11.79	12.00	12.52	12.38	582.57	600.26	544.03	564.39	597.19	580.43
MTERF domain containing 1	Mterfd1	100761498	23.58	23.06	27.29	30.92	32.08	30.39	867.39	851.90	997.40	1124.15	1149.87	1108.52
MTERF domain containing 2	Mterfd2	100771571	51.66	53.90	54.18	53.96	55.14	52.46	2056.83	2132.94	2143.84	2108.08	2162.09	2065.62
MTERF domain containing 3	Mterfd3	100761371	8.40	8.32	9.96	10.64	11.58	11.26	1301.09	1308.50	1560.06	1672.32	1803.98	1734.75
metal-regulatory transcription factor 1	Mtf1	100752132	4.14	4.17	4.25	4.05	4.33	3.51	499.78	518.82	544.03	558.60	526.81	494.44
metal response element binding transcription factor 2	Mtf2	100764652	8.57	9.27	8.86	11.10	10.64	10.63	672.95	707.32	683.15	841.38	793.83	814.10
mitochondrial methionyl-tRNA formyltransferase	Mtfmt	100751376	15.39	15.53	16.84	17.42	17.55	17.91	647.13	636.86	693.08	708.10	723.46	747.74
mitochondrial fission process 1	Mtfp1	100755489	3.08	2.98	1.65	1.82	1.66	1.31	135.96	134.51	74.53	85.76	78.66	71.97

mitochondrial fission regulator 1	Mtfr1	100760514	17.45	17.36	18.96	18.81	20.73	23.01	844.61	849.15	970.07	950.31	1000.83	1111.32
mitochondrial fission regulator 1-like	Mtfr1l	100761781	58.03	56.40	63.77	62.21	61.65	63.56	3594.14	3512.81	3942.38	3818.64	3797.36	3902.25
mitochondrial fission regulator 2	Mtfr2	100773374	27.88	30.67	30.67	32.38	37.08	36.72	1582.88	1733.07	1756.31	1832.25	2096.88	2091.79
mitochondrial ribosome-associated GTPase 1	Mtg1	100753782	19.17	18.44	20.67	19.46	18.14	19.49	816.50	843.66	909.21	844.85	777.27	822.51
mitochondrial ribosome-associated GTPase 2	Mtg2	100754227	54.65	50.70	52.51	50.76	43.57	47.44	2342.42	2222.62	2284.20	2204.27	1894.02	2048.80
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase	Mthfd1	100763862	75.36	75.07	80.12	79.49	73.07	75.56	7171.57	7178.44	7620.20	7406.66	6866.10	7110.03
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	Mthfd1l	100767336	95.29	91.41	94.23	90.90	87.88	95.29	10158.84	9850.34	10109.34	9533.27	9325.23	10018.72
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	Mthfd2	100770086	164.58	160.77	171.10	168.56	156.76	158.12	9268.66	9069.81	9685.79	9420.86	8737.35	8870.95
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like	Mthfd2l	100760811	7.92	8.33	9.48	12.53	10.99	9.41	159.50	165.62	185.07	231.78	210.10	181.33
methylenetetrahydrofolate reductase (NAD(P)H)	Mthfr	100774930	3.25	3.41	3.91	3.71	3.16	3.45	255.96	275.43	303.07	278.14	243.22	266.38
5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	Mthfs	100758328	15.24	13.54	4.74	5.26	6.08	6.02	319.01	286.41	93.16	99.67	119.02	120.57
methenyltetrahydrofolate synthetase domain containing	Mthfsd	100756877	8.62	8.69	8.81	9.16	8.20	8.89	395.72	416.34	424.79	427.64	402.61	453.31
mitochondrial translational initiation factor 2	Mtif2	100765344	19.69	19.99	17.25	19.69	21.45	21.56	1430.21	1453.99	1268.17	1437.06	1569.04	1556.23
mitochondrial translational initiation factor 3	Mtif3	100763635	9.98	9.22	11.48	11.04	12.19	12.23	227.86	215.95	247.18	242.21	257.71	251.43
metallothionein-like 5, testis-specific (tesmin)	Mtl5	100762461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myotubularin 1	Mtm1	100761567	2.15	2.75	2.27	2.34	3.69	2.62	109.37	128.10	113.03	121.69	169.74	137.40
myotubularin related protein 1	Mtmr1	100770104	11.83	12.79	11.94	13.39	13.86	13.66	1497.81	1630.59	1510.38	1692.02	1750.16	1702.03
myotubularin related protein 10	Mtmr10	100764370	10.25	10.83	10.90	12.66	14.64	13.24	1416.54	1495.16	1535.22	1771.99	2020.29	1845.97
myotubularin related protein 11	Mtmr11	100759793	3.36	3.33	5.80	5.48	6.86	6.84	308.37	305.62	534.10	516.88	585.80	586.97
myotubularin related protein 12	Mtmr12	100750401	6.52	6.54	6.99	7.38	8.21	7.93	922.08	932.42	1016.03	1043.03	1175.74	1138.43
myotubularin related protein 14	Mtmr14	100754286	31.59	30.80	38.35	39.24	31.83	34.30	2304.44	2270.20	2853.07	2845.15	2361.84	2506.78
myotubularin related protein 2	Mtmr2	100762316	48.27	48.79	50.19	55.52	59.70	57.96	4250.38	4345.49	4492.63	4859.35	5252.56	5061.24
myotubularin related protein 3	Mtmr3	100750781	27.53	26.89	27.71	29.67	25.86	27.63	4550.40	4467.19	4624.29	4899.91	4244.48	4592.03
myotubularin related protein 4	Mtmr4	100753422	11.05	11.25	6.66	7.10	8.04	8.15	1692.25	1721.18	1013.54	1060.41	1198.51	1215.07
myotubularin related protein 6	Mtmr6	100766683	45.65	45.62	41.62	47.66	56.49	58.50	2642.44	2795.43	2558.70	2878.76	3422.70	3304.06
myotubularin related protein 7	Mtmr7	100751422	0.47	0.47	0.43	0.39	0.57	0.44	49.37	54.90	50.93	56.79	63.13	57.01
myotubularin related protein 9	Mtmr9	100754953	19.61	20.17	19.32	21.15	25.13	25.55	3395.14	3501.83	3361.09	3657.55	4327.28	4433.14
melatonin receptor 1A	Mtnr1a	100766429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

melatonin receptor 1B	Mtnr1b	100753312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitochondrial tRNA translation optimization 1	Mto1	100754228	6.69	6.33	7.48	7.39	8.47	8.41	687.38	689.02	787.48	795.02	909.75	880.46
mechanistic target of rapamycin (serine/threonine kinase)	Mtor	100755421	13.94	13.40	15.33	14.81	14.04	14.77	3742.25	3639.09	4203.22	3976.25	3743.55	3912.53
myotrophin	Mtpn	100772730	110.49	111.94	108.22	114.95	128.15	131.88	10595.57	10739.75	10454.64	11006.26	12212.84	12691.88
5-methyltetrahydrofolate-homocysteine methyltransferase	Mtr	100763416	5.89	5.78	6.57	7.69	7.64	7.68	1069.43	1048.63	1188.68	1394.18	1395.16	1387.05
mitochondrial translational release factor 1	Mtrf1	100770151	13.38	12.73	10.15	11.79	13.43	12.74	825.62	794.25	622.29	724.32	808.32	778.58
mitochondrial translational release factor 1-like	Mtrf1l	100770110	5.17	4.14	4.82	6.27	6.35	5.68	356.22	285.49	327.91	418.37	431.59	377.61
5-methyltetrahydrofolate-homocysteine methyltransferase reductase	Mtrr	100773236	24.15	24.73	28.98	30.48	31.66	30.42	970.69	984.58	1129.06	1149.65	1139.52	1099.17
metastasis suppressor 1	Mtss1	100762499	29.58	29.21	14.48	13.21	14.21	12.61	2514.83	2498.04	1286.80	1167.03	1167.46	1058.98
metastasis suppressor 1-like	Mtss1l	100758555	2.85	2.72	2.59	2.10	1.74	1.74	368.38	356.86	339.09	271.19	222.52	218.71
microsomal triglyceride transfer protein	Mttp	100759278	0.05	0.05	0.02	0.04	0.00	0.00	3.80	2.75	1.24	2.32	0.00	0.00
maturin, neural progenitor differentiation regulator homolog (Xenopus)	Mturn	100759920	17.66	18.69	18.18	21.44	25.56	22.48	101.02	107.97	116.76	134.43	132.48	136.46
microtubule associated tumor suppressor 1	Mtus1	100771939	0.00	0.02	0.00	0.00	0.01	0.01	0.00	2.75	0.00	0.00	1.03	1.87
microtubule associated tumor suppressor candidate 2	Mtus2	100755920	0.21	0.28	0.41	0.33	0.63	0.69	43.29	57.65	86.95	71.85	130.41	141.14
metaxin 1	Mtx1	100772542	103.30	97.08	103.65	83.11	70.53	79.21	3866.81	3795.56	4064.11	3282.06	2895.89	3075.06
metaxin 2	Mtx2	100757389	87.35	90.79	83.49	91.39	97.43	97.81	2631.80	2743.27	2551.25	2684.06	2912.45	2875.04
metaxin 3	Mtx3	100762251	3.03	2.64	3.23	3.47	3.84	3.08	107.10	110.72	116.76	136.75	155.25	121.51
mucin 1, cell surface associated	Muc1	100772836	1.53	1.63	1.30	1.30	1.19	1.10	149.63	172.03	130.42	134.43	131.44	114.96
mucin 13, cell surface associated	Muc13	100765089	1.88	1.98	0.28	0.33	0.34	0.34	145.83	172.94	26.08	28.97	23.80	27.11
mucin 15, cell surface associated	Muc15	100761085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin 2, oligomeric mucus/gel-forming	Muc2	100769711	0.00	0.00	0.01	0.01	0.01	0.00	2.28	1.83	2.48	1.16	2.07	1.87
mucin 20, cell surface associated	Muc20	100763626	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin 21, cell surface associated	Muc21	103164095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin 22	Muc22	103164536	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
mucin 4, cell surface associated	Muc4	100763347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
mucin 5AC, oligomeric mucus/gel-forming	Muc5ac	100768566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mucin 5B, oligomeric mucus/gel-forming	Muc5b	100769428	0.01	0.02	0.05	0.07	0.05	0.06	16.71	23.79	45.96	52.15	56.92	57.95
mucin 6, oligomeric mucus/gel-forming	Muc6	100757345	0.02	0.01	0.01	0.00	0.02	0.02	1.52	1.83	1.24	1.16	6.21	2.80
mitochondrial E3 ubiquitin protein ligase 1	Mul1	100757014	27.22	25.77	29.36	25.96	21.95	24.02	1535.03	1483.27	1683.03	1470.67	1269.93	1359.94
muscle-related coiled-coil protein	Murc	100757606	0.44	0.30	0.10	0.15	0.05	0.07	38.74	27.45	8.69	12.75	5.17	7.48
MUS81 structure-specific endonuclease subunit	Mus81	100770181	17.08	15.89	19.93	18.21	17.15	20.29	720.80	678.04	914.18	839.06	730.70	861.77
muscle, skeletal, receptor tyrosine kinase	Musk	100756456	0.01	0.01	0.00	0.02	0.00	0.01	0.76	0.92	0.00	1.16	0.00	0.93

musculoskeletal, embryonic nuclear protein 1	Mustn1	100753570	0.05	0.06	0.08	0.15	0.00	0.06	3.04	4.58	8.69	6.95	6.21	6.54
methylmalonyl CoA mutase	Mut	100765277	10.71	10.61	12.21	12.66	16.11	14.58	1156.02	1156.60	1305.43	1355.94	1718.08	1559.03
mutY homolog	Mutyh	100752384	5.54	5.51	8.46	6.92	7.65	8.74	321.29	336.73	496.83	405.62	501.97	535.57
multivesicular body subunit 12A	Mvb12a	100755066	43.90	39.39	53.37	41.45	30.94	35.51	1272.99	1224.31	1606.02	1248.16	959.43	1053.37
mevalonate (diphospho) decarboxylase	Mvd	100766541	13.70	12.32	14.53	11.86	7.71	9.35	707.13	645.10	737.80	601.48	409.85	474.81
mevalonate kinase	Mvk	100751653	13.82	14.54	19.05	14.58	10.56	12.23	725.36	753.99	988.70	748.66	581.66	640.25
major vault protein	Mvp	100751094	17.03	16.59	20.42	17.29	11.93	13.08	1437.81	1403.66	1710.35	1455.60	1023.60	1111.32
MAX dimerization protein 1	Mxd1	100773636	1.75	1.91	1.92	2.03	1.88	1.99	124.56	132.68	146.57	143.71	136.62	142.07
MAX dimerization protein 3	Mxd3	100764445	4.42	4.34	2.85	2.88	2.31	2.23	199.00	185.75	118.00	117.05	90.04	85.99
MAX dimerization protein 4	Mxd4	100771318	7.38	7.39	8.27	7.09	7.56	8.46	800.55	812.55	914.18	774.16	823.85	909.43
MAX interactor 1, dimerization protein	Mxi1	100758403	24.43	23.08	29.54	31.12	29.39	28.80	976.77	928.76	1152.66	1255.11	1158.15	1149.64
matrix-remodelling associated 7	Mxra7	100774948	5.34	6.58	10.53	10.55	5.94	7.39	130.64	154.64	257.11	222.51	155.25	174.78
matrix-remodelling associated 8	Mxra8	100773449	0.89	0.73	0.66	0.43	0.41	0.51	75.95	60.39	47.20	39.40	40.36	44.86
myeloid-associated differentiation marker	Myadm	100767597	11.88	10.52	10.35	7.80	6.07	6.91	648.65	613.99	593.72	458.93	385.01	466.40
myeloid-associated differentiation marker-like 2	Myadml 2	100768209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
v-myb avian myeloblastosis viral oncogene homolog	Myb	100753578	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
MYB binding protein (P160) 1a	Mybbp1 a	100758378	107.72	99.51	95.38	87.20	70.04	78.29	13191.68	12486.55	12068.12	10846.33	8720.79	9685.05
v-myb avian myeloblastosis viral oncogene homolog-like 1	Mybl1	100763528	3.70	3.79	4.65	5.99	7.19	5.36	518.01	534.38	653.34	835.58	994.62	753.34
v-myb avian myeloblastosis viral oncogene homolog-like 2	Mybl2	100773251	64.14	62.28	69.25	63.16	52.40	55.47	5202.08	5126.93	5704.90	5152.56	4271.39	4515.39
myosin binding protein C, slow type	Mybpc1	100772436	0.09	0.05	0.06	0.09	0.05	0.06	9.87	8.24	6.21	11.59	7.24	8.41
myosin binding protein C, cardiac	Mybpc3	100763069	0.02	0.00	0.01	0.02	0.01	0.01	4.56	1.83	6.21	5.79	5.17	4.67
myosin binding protein H	Mybph	100751054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin binding protein H-like	Mybphl	100774331	0.12	0.03	0.00	0.00	0.06	0.09	5.32	2.75	0.00	2.32	4.14	4.67
MYC binding protein	Mycbp	100750991	15.71	16.09	15.74	16.82	20.24	18.60	1375.53	1377.13	1341.45	1337.39	1521.43	1474.91
MYC binding protein 2, E3 ubiquitin protein ligase	Mycbp2	100763589	16.64	16.21	15.95	18.44	18.46	17.76	7631.85	7462.10	7359.36	8407.96	8423.75	8156.86
MYCBP associated protein	Mycbpa p	100762515	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
v-myc avian myelocytomatosis viral oncogene lung carcinoma derived homolog	Mycl	100751865	0.16	0.28	0.35	0.15	0.08	0.24	11.39	12.81	22.36	12.75	10.35	11.22
v-myc avian myelocytomatosis viral oncogene neuroblastoma derived homolog	Mycn	100757411	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myc target 1	Myct1	100769817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myeloid differentiation primary response 88	Myd88	100775060	20.77	20.23	18.68	20.45	18.75	19.18	1803.15	1774.25	1638.31	1771.99	1627.00	1676.80
myelin expression factor 2	Myef2	100763790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myeloma overexpressed 2	Myeov2	100769752	195.61	197.69	195.29	171.39	145.83	137.45	1553.26	1565.62	1517.83	1234.25	1096.05	1020.66

myogenic factor 5	Myf5	100773160	0.00	0.03	0.00	0.00	0.00	0.00	1.52	0.92	2.48	2.32	0.00	0.93
myogenic factor 6 (herculin)	Myf6	100773443	0.06	0.07	0.10	0.07	0.06	0.07	5.32	6.41	6.21	6.95	4.14	9.35
myosin, heavy chain 10, non-muscle	Myh10	100759005	47.35	45.94	47.77	47.49	44.21	44.31	10834.07	10509.16	11033.46	10823.15	10016.60	10092.56
myosin, heavy chain 11, smooth muscle	Myh11	100771006	0.25	0.21	0.12	0.12	0.16	0.10	96.46	92.42	104.34	121.69	115.92	120.57
myosin, heavy chain 13, skeletal muscle	Myh13	100768976	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	1.24	0.00	0.00	0.93
myosin, heavy chain 14, non-muscle	Myh14	100770655	0.00	0.02	0.00	0.00	0.00	0.01	0.76	2.75	0.00	0.00	0.00	0.93
myosin, heavy chain 15	Myh15	100758646	0.00	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
myosin, heavy chain 3, skeletal muscle, embryonic	Myh3	100769831	0.40	0.35	0.52	0.37	0.04	0.07	66.84	68.63	88.19	64.90	7.24	12.15
myosin, heavy chain 7, cardiac muscle, beta	Myh7	100772734	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.16	1.03	0.00
myosin, heavy chain 7B, cardiac muscle, beta	Myh7b	100760866	0.14	0.16	0.11	0.19	0.08	0.09	42.53	42.09	38.50	47.52	28.98	38.32
myosin, heavy chain 9, non-muscle	Myh9	100773282	177.57	171.71	118.21	103.98	91.15	99.08	20310.08	20207.60	14009.50	12053.93	10779.38	11453.44
myosin, light chain 1, alkali; skeletal, fast	Myl1	100760766	0.04	0.10	0.21	0.20	0.12	0.11	0.76	2.75	3.73	4.64	2.07	4.67
myosin, light chain 10, regulatory	Myl10	100767841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin, light chain 2, regulatory, cardiac, slow	Myl2	100773969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin, light chain 3, alkali; ventricular, skeletal, slow	Myl3	100766026	0.16	0.15	0.00	0.06	0.00	0.05	3.80	4.58	0.00	1.16	0.00	0.93
myosin, light chain 4, alkali; atrial, embryonic	Myl4	100771007	0.24	0.59	0.44	0.42	0.50	0.34	15.95	17.39	12.42	13.91	12.42	11.22
myosin, light chain 6, alkali, smooth muscle and non-muscle	Myl6	100689052	367.74	352.69	321.50	293.94	248.56	277.86	9932.49	9693.87	8833.72	7965.26	6942.69	7425.02
myosin, light chain 6B, alkali, smooth muscle and non-muscle	Myl6b	100766814	21.42	19.15	35.83	30.78	26.16	31.28	551.43	507.84	905.48	767.20	677.92	779.51
myosin, light chain 7, regulatory	Myl7	100768927	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin, light chain 9, regulatory	Myl9	100753477	1.24	1.08	0.71	0.85	0.32	0.18	37.98	32.03	18.63	23.18	9.31	4.67
myosin regulatory light chain interacting protein	Mylip	100760940	0.02	0.01	0.09	0.03	0.33	0.34	2.28	0.92	7.45	2.32	27.94	31.78
myosin light chain kinase	Mylk	100758406	0.01	0.02	0.00	0.00	0.00	0.01	3.04	4.58	0.00	0.00	0.00	0.93
myosin light chain kinase 2	Mylk2	100755963	0.23	0.39	0.15	0.25	0.22	0.21	22.03	32.03	11.18	23.18	19.66	18.69
myosin light chain kinase 3	Mylk3	100766446	0.00	0.00	0.04	0.03	0.03	0.00	0.00	0.00	3.73	2.32	2.07	0.00
myosin light chain kinase family, member 4	Mylk4	100756400	0.05	0.00	0.00	0.04	0.00	0.03	2.28	0.00	0.00	2.32	0.00	1.87
myosin light chain, phosphorylatable, fast skeletal muscle	Mylpf	100772226	0.81	0.76	0.62	2.07	1.57	1.42	18.99	21.96	19.87	34.77	41.40	30.84
myoneurin	Mynn	100768054	13.00	12.77	15.40	16.95	18.12	16.18	1438.57	1412.81	1705.39	1863.54	1938.53	1774.94
myosin X	Myo10	100766312	5.34	5.59	4.79	4.89	5.20	5.08	1238.05	1307.58	1134.03	1149.65	1236.81	1207.59
myosin XVA	Myo15a	100755330	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	2.32	1.03	0.00
myosin XVI	Myo16	100757553	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin XVIIIA	Myo18a	100765373	30.31	29.43	33.34	30.04	23.44	25.02	6430.26	6278.96	7077.41	6230.35	4833.39	5186.48
myosin XVIIIB	Myo18b	100773043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin XIX	Myo19	100759803	12.01	11.83	5.06	5.63	5.11	4.97	1411.98	1408.24	596.20	657.11	627.20	591.65
myosin IA	Myo1a	100752754	0.11	0.19	0.16	0.15	0.17	0.13	14.43	23.79	23.60	18.54	21.73	14.95

myosin IB	Myo1b	100753394	64.00	66.47	28.13	31.91	39.50	38.48	8961.04	9315.96	3948.59	4410.85	5464.73	5337.90
myosin IC	Myo1c	100759064	165.63	163.84	161.17	160.87	160.64	171.98	22284.88	22098.06	21729.07	21386.71	21420.08	22947.08
myosin ID	Myo1d	100773950	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.92	0.00	0.00	1.03	0.00
myosin IE	Myo1e	100773946	23.62	23.86	29.60	29.67	30.05	29.35	3286.53	3402.09	4206.95	4183.70	4258.97	4122.83
myosin IF	Myo1f	100753360	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
myosin IG	Myo1g	100766313	2.33	2.28	1.08	1.11	0.83	0.93	240.01	248.89	114.27	117.05	99.36	98.14
myosin IH	Myo1h	100772352	0.00	0.01	0.00	0.00	0.00	0.00	9.11	9.15	11.18	11.59	3.10	14.95
myosin IIIA	Myo3a	100757928	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myosin IIIB	Myo3b	100772899	0.02	0.03	0.00	0.00	0.01	0.00	4.56	4.58	0.00	0.00	2.07	0.93
myosin VA (heavy chain 12, myoxin)	Myo5a	100753457	13.82	13.13	11.59	13.56	13.44	13.31	4945.36	4778.31	4216.88	4887.17	4815.79	4772.42
myosin VB	Myo5b	100765544	0.00	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
myosin VC	Myo5c	100753160	0.02	0.01	0.00	0.01	0.01	0.00	4.56	2.75	0.00	1.16	2.07	0.00
myosin VI	Myo6	100765167	5.76	5.69	6.76	7.33	8.64	7.89	1376.29	1378.04	1637.07	1751.13	2056.52	1870.27
myosin VIIA	Myo7a	100768082	0.01	0.00	0.01	0.01	0.01	0.01	3.80	0.92	1.24	3.48	4.14	3.74
myosin VIIB	Myo7b	100771690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
myosin IXA	Myo9a	100752004	5.78	5.74	5.48	6.86	7.49	7.02	2068.98	2072.55	1979.89	2452.27	2664.05	2497.44
myosin IXB	Myo9b	100756517	21.44	22.01	17.81	16.34	14.06	14.31	4343.05	4529.42	3695.21	3378.25	2909.35	2887.19
myocilin, trabecular meshwork inducible glucocorticoid response	Myoc	100750409	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
myocardin	Myocd	100771555	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myoferlin	Myof	100751722	80.44	82.70	87.64	100.30	109.69	107.40	16602.77	17274.00	18453.68	20758.57	22794.54	22166.63
myogenin (myogenic factor 4)	Myog	100751638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myomesin 1	Myom1	100770756	2.96	2.98	2.99	2.89	2.66	2.71	291.66	288.24	288.16	276.98	262.89	250.49
myomesin 2	Myom2	100757191	0.35	0.53	0.16	0.13	0.12	0.10	54.69	82.35	24.84	22.02	19.66	15.89
myomesin 3	Myom3	100756256	0.32	0.27	0.22	0.16	0.07	0.09	56.21	47.58	38.50	30.13	13.45	15.89
myosin-2	Myosin-2	100767239	0.05	0.04	0.01	0.01	0.01	0.00	7.60	6.41	1.24	1.16	2.07	0.93
myotilin	Myot	100772758	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
myozenin 1	Myoz1	100757083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myozenin 2	Myoz2	100755029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myozenin 3	Myoz3	100767288	0.03	0.00	0.00	0.08	0.07	0.19	2.28	0.92	1.24	5.79	2.07	6.54
myopalladin	Mypn	100757304	0.11	0.16	0.06	0.03	0.02	0.05	13.67	16.47	6.21	3.48	3.10	6.54
myelin regulatory factor	Myrf	100756693	0.18	0.17	0.01	0.03	0.02	0.01	19.75	21.05	2.48	2.32	2.07	0.93
myelin regulatory factor-like	Myrfl	100760130	0.00	0.05	0.00	0.01	0.00	0.00	0.00	5.49	0.00	1.16	0.00	0.00
myosin VIIA and Rab interacting protein	Myrip	100772958	0.07	0.04	0.02	0.03	0.00	0.00	9.87	7.32	4.97	3.48	1.03	2.80
Myb-like, SWIRM and MPN domains 1	Mysm1	100764556	14.23	14.29	13.70	15.73	16.54	14.64	1793.27	1754.12	1705.39	1967.85	2020.29	1855.32
myelin transcription factor 1	Myt1	100765954	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
myelin transcription factor 1-like	Myt1l	100750480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
myocardial zonula adherens protein	Myzap	100772021	4.60	4.85	4.27	5.32	5.31	5.26	309.13	328.50	293.13	346.52	352.93	351.44
marginal zone B and B1 cell-specific protein	Mzb1	100756072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
myeloid zinc finger 1	Mzf1	103163653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
mitotic spindle organizing protein 1	Mzt1	100774557	50.74	51.12	44.73	48.66	55.24	50.88	3347.29	3393.86	2981.01	3212.53	3633.84	3372.29
mitotic spindle organizing protein 2B	Mzt2b	100756780	45.67	45.32	42.24	30.67	21.22	24.78	979.05	935.16	930.32	762.57	551.65	645.86
NEDD4 binding protein 1	N4bp1	100750417	11.09	11.52	13.99	14.62	14.54	15.05	2176.84	2265.62	2772.34	2866.01	2838.97	2964.77

NEDD4 binding protein 2	N4bp2	100766471	3.52	3.77	4.32	4.98	5.17	4.94	908.41	991.90	1130.30	1295.67	1336.17	1285.17
NEDD4 binding protein 2-like 1	N4bp2l1	100760596	0.05	0.11	0.00	0.11	0.05	0.09	3.80	4.58	0.00	6.95	5.17	5.61
NEDD4 binding protein 2-like 2	N4bp2l2	100758949	18.42	18.00	19.53	21.62	22.53	21.69	1045.13	1040.39	1125.33	1230.77	1275.10	1234.70
NEDD4 binding protein 3	N4bp3	100767247	1.38	1.14	1.21	1.08	0.66	0.89	62.28	46.67	49.68	49.83	39.33	47.67
N-6 adenine-specific DNA methyltransferase 1 (putative)	N6amt1	100768580	10.93	10.05	9.99	9.67	10.53	12.06	467.12	428.24	421.07	399.83	435.73	505.66
N-6 adenine-specific DNA methyltransferase 2 (putative)	N6amt2	100761262	17.38	17.26	17.56	17.48	19.17	19.50	489.14	495.03	500.56	482.11	525.77	536.50
NADH dehydrogenase subunit 1	ND1	3979183	0.00	0.00	0.00	0.00	0.00	0.00						
NADH dehydrogenase subunit 2	ND2	3979184	0.00	0.00	0.00	0.00	0.00	0.00						
NADH dehydrogenase subunit 3	ND3	3979190	0.00	0.00	0.00	0.00	0.00	0.00						
NADH dehydrogenase subunit 4	ND4	3979179	0.00	0.00	0.00	0.00	0.00	0.00						
NADH dehydrogenase subunit 4L	ND4L	3979178	0.00	0.00	0.00	0.00	0.00	0.00						
NADH dehydrogenase subunit 5	ND5	3979180	0.00	0.00	0.00	0.00	0.00	0.00						
NADH dehydrogenase subunit 6	ND6	3979181	0.00	0.00	0.00	0.00	0.00	0.00						
N(alpha)-acetyltransferase 10, NatA catalytic subunit	Naa10	100774782	92.97	96.09	103.37	88.76	64.80	70.89	2698.64	2686.54	2901.51	2476.61	1849.52	2036.65
N(alpha)-acetyltransferase 11, NatA catalytic subunit	Naa11	100770650	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.03	0.00
N(alpha)-acetyltransferase 15, NatA auxiliary subunit	Naa15	100763666	65.90	64.67	59.27	65.69	65.06	60.68	6915.60	6851.77	6225.34	6875.87	6752.25	6324.91
N(alpha)-acetyltransferase 16, NatA auxiliary subunit	Naa16	100771585	3.00	2.99	3.27	3.53	4.33	3.71	363.82	379.74	388.77	433.44	508.18	457.05
N(alpha)-acetyltransferase 20, NatB catalytic subunit	Naa20	100771745	81.82	85.80	85.38	84.46	87.76	83.55	2018.10	2113.73	2171.17	2141.68	2236.61	2073.10
N(alpha)-acetyltransferase 25, NatB auxiliary subunit	Naa25	100762204	26.59	26.41	26.05	28.20	27.17	26.81	4346.08	4305.23	4254.15	4587.00	4386.27	4356.50
N(alpha)-acetyltransferase 30, NatC catalytic subunit	Naa30	100754621	9.76	9.00	11.29	12.26	12.16	12.95	1055.00	966.28	1216.00	1307.26	1282.35	1379.57
N(alpha)-acetyltransferase 35, NatC auxiliary subunit	Naa35	100772100	18.35	18.36	19.39	21.84	20.52	21.14	1849.48	1885.88	1994.79	2219.33	2125.86	2192.74
N(alpha)-acetyltransferase 40, NatD catalytic subunit	Naa40	100754917	17.82	17.20	18.13	17.72	15.42	17.25	1609.46	1572.03	1661.91	1602.79	1383.78	1570.25
N(alpha)-acetyltransferase 50, NatE catalytic subunit	Naa50	100773295	95.13	102.11	102.84	110.08	111.39	113.62	7255.12	7780.53	7914.58	8398.69	8439.28	8643.83
N(alpha)-acetyltransferase 60, NatF catalytic subunit	Naa60	100765069	15.12	14.66	15.31	15.10	13.75	13.63	976.01	970.85	1021.00	982.76	906.65	892.61
N-acylethanolamine acid amidase	Naaa	100769622	1.26	0.67	1.01	1.00	1.48	1.28	82.79	53.99	62.10	70.69	85.90	83.19
N-acetylated alpha-linked acidic dipeptidase-like 1	Naaladl 1	100768106	0.02	0.01	0.00	0.00	0.00	0.00	2.28	6.41	4.97	3.48	4.14	1.87
N-acetylated alpha-linked acidic dipeptidase-like 2	Naaladl 2	100761363	0.36	0.42	0.89	0.84	1.02	1.11	22.03	23.79	52.17	44.04	52.78	57.95
NGFI-A binding protein 1 (EGR1 binding protein 1)	Nab1	100765317	36.34	36.27	39.26	40.90	41.84	40.07	3343.49	3362.75	3644.28	3775.76	3797.36	3691.01
NGFI-A binding protein 2 (EGR1 binding protein 2)	Nab2	100753054	17.91	18.49	18.70	14.21	10.78	11.20	1101.33	1111.77	1127.81	799.65	593.05	625.29
nucleic acid binding protein 1	Nabp1	100755797	8.55	8.54	6.40	6.91	6.67	5.99	631.18	651.50	485.66	531.94	507.14	483.22
nucleic acid binding protein 2	Nabp2	100751749	70.77	70.75	77.99	65.75	49.70	50.43	2110.00	2144.84	2343.82	1942.35	1480.03	1476.78
NAC alpha domain containing	Nacad	100769774	0.74	0.66	0.76	0.74	0.72	0.78	169.38	144.58	157.75	164.57	144.90	168.24

nucleus accumbens associated 1, BEN and BTB (POZ) domain containing	Nacc1	100765336	41.03	40.88	46.42	41.38	32.00	34.55	4955.23	4930.20	5631.62	5011.17	3857.39	4196.67
NACC family member 2, BEN and BTB (POZ) domain containing	Nacc2	100769059	2.89	2.54	3.18	2.43	1.12	1.56	200.52	189.41	227.30	179.63	92.11	122.44
NAD kinase	Nadk	100755696	68.31	66.65	70.92	63.32	58.01	57.46	4069.61	4053.60	4323.70	3861.52	3568.63	3619.98
NAD kinase 2, mitochondrial	Nadk2	100773611	14.57	14.96	19.28	20.97	21.88	21.28	1268.43	1301.18	1709.11	1838.05	1886.78	1828.21
NAD synthetase 1	Nadsyn 1	100771407	7.44	6.95	6.06	6.90	6.37	7.30	571.93	560.00	501.80	565.55	519.56	579.50
NEDD8 activating enzyme E1 subunit 1	Nae1	103163014	11.86	11.81	13.97	14.45	15.77	15.70	671.43	695.43	792.45	846.01	919.07	886.07
nuclear assembly factor 1 ribonucleoprotein	Naf1	100757451	8.46	8.56	9.73	9.71	11.07	10.90	1334.51	1381.70	1567.51	1544.84	1763.62	1712.31
N-acetylgalactosaminidase, alpha-	Naga	100751670	56.77	53.28	57.74	54.72	46.15	49.48	3188.55	3000.39	3256.75	3046.80	2577.12	2765.69
N-acetylglucosamine kinase	Nagk	100758117	10.18	10.83	12.39	11.93	11.86	12.17	385.09	386.14	460.81	436.91	424.34	435.56
N-acetylglucosaminidase, alpha	Naglu	100757611	16.79	16.75	16.76	14.71	10.90	11.86	1205.39	1209.67	1220.97	1036.07	780.38	852.42
N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	Nagpa	100774024	16.60	16.07	15.96	14.47	11.14	12.00	856.00	829.94	824.75	731.28	573.38	615.01
N-acetylglutamate synthase	Nags	100752620	0.02	0.00	0.00	0.03	0.00	0.00	1.52	0.00	6.21	1.16	2.07	2.80
nuclear apoptosis inducing factor 1	Naif1	100756267	3.29	2.98	2.61	1.75	1.51	0.95	141.27	128.10	124.21	79.97	84.87	60.75
sodium leak channel, non-selective	Nalcn	100761462	0.05	0.05	0.03	0.00	0.03	0.03	11.39	13.73	4.97	0.00	6.21	6.54
nicotinamide phosphoribosyltransferase	Nampt	100767492	32.00	33.31	37.19	39.77	40.69	39.28	3962.52	4109.42	4647.89	4918.46	4997.95	4887.39
Nanog homeobox	Nanog	100774227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nanos homolog 2 (Drosophila)	Nanos2	100774685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nanos homolog 3 (Drosophila)	Nanos3	100766795	0.35	0.12	0.16	0.00	0.00	0.25	12.15	8.24	3.73	2.32	0.00	5.61
N-acetylneuraminic acid phosphatase	Nanp	100764540	13.20	13.04	12.27	14.47	15.47	12.91	492.18	483.14	458.33	549.33	582.70	500.98
N-acetylneuraminic acid synthase	Nans	100767837	40.50	38.50	43.04	40.29	36.93	36.35	2233.05	2146.67	2419.59	2203.11	2032.71	2016.08
nucleosome assembly protein 1-like 1	Nap1l1	100763316	295.80	316.63	337.13	348.97	365.18	354.34	10292.52	11125.89	11592.40	11848.80	12463.31	11969.38
nucleosome assembly protein 1-like 2	Nap1l2	100767424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleosome assembly protein 1-like 3	Nap1l3	100751174	11.63	11.55	14.65	16.21	20.22	20.16	777.01	784.18	1009.82	1098.66	1348.59	1351.53
nucleosome assembly protein 1-like 4	Nap1l4	100760664	65.04	67.82	63.22	63.42	67.02	65.85	3348.05	3513.73	3291.53	3277.43	3466.17	3325.55
nucleosome assembly protein 1-like 5	Nap1l5	100754259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-ethylmaleimide-sensitive factor attachment protein, alpha	Napa	103164213	0.98	1.09	1.22	0.26	0.69	0.62	12.91	10.98	13.66	4.64	8.28	6.54
N-ethylmaleimide-sensitive factor attachment protein, beta	Napb	100763425	1.77	1.67	2.07	2.03	2.70	2.91	139.76	147.32	158.99	172.68	204.93	221.52
N-acyl phosphatidylethanolamine phospholipase D	Napepld	100759349	4.28	4.76	5.15	5.63	4.26	4.82	188.37	217.78	211.15	237.58	197.68	213.10
N-ethylmaleimide-sensitive factor attachment protein, gamma	Napg	100766387	11.88	11.51	12.14	12.60	12.70	12.69	412.43	417.26	465.78	476.32	482.30	472.94
nicotinate phosphoribosyltransferase domain containing 1	Naprt1	100756372	5.55	5.55	7.28	5.36	3.25	4.37	295.46	309.28	378.84	272.35	173.88	233.67
napsin A aspartic peptidase	Napsa	100773646	0.12	0.10	0.03	0.00	0.07	0.08	8.35	10.07	2.48	2.32	4.14	6.54

nuclear prelamin A recognition factor	Narf	100773860	21.94	21.05	8.45	8.82	9.17	7.69	1152.22	1118.17	469.51	448.50	468.85	429.01
nuclear prelamin A recognition factor-like	Narfl	100772638	26.26	27.77	30.01	26.57	26.62	29.38	1592.75	1695.56	1865.61	1630.60	1649.77	1808.59
NMDA receptor regulated 2	Narg2	100759663	10.19	10.37	13.26	14.38	16.21	14.41	1234.25	1252.68	1558.82	1718.68	1899.20	1687.08
asparaginyl-tRNA synthetase	Nars	100764751	187.47	184.84	182.07	189.65	185.41	186.65	11798.68	11588.90	11579.98	11931.08	11756.41	11820.77
asparaginyl-tRNA synthetase 2, mitochondrial (putative)	Nars2	100771333	10.42	10.48	9.51	11.41	11.67	11.62	770.93	779.61	724.14	807.77	850.76	822.51
nuclear autoantigenic sperm protein (histone-binding)	Nasp	100761335	102.30	101.79	93.48	96.72	98.97	95.38	8841.80	9122.88	8572.88	8796.20	9029.22	8380.25
N-acetyltransferase 10 (GCN5-related)	Nat10	100773484	46.02	46.22	44.52	42.46	35.88	38.03	5284.11	5345.63	5139.76	4836.17	4127.53	4362.10
N-acetyltransferase 2 (arylamine N-acetyltransferase)	Nat2	100689282	0.02	0.04	0.06	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
N-acetyltransferase 6 (GCN5-related)	Nat6	100753018	19.78	19.22	23.62	17.10	13.41	13.02	646.37	634.12	775.06	560.92	421.24	423.41
N-acetyltransferase 8-like (GCN5-related, putative)	Nat8l	100769399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-acetyltransferase 9 (GCN5-related, putative)	Nat9	100774051	37.41	36.19	39.52	32.38	22.50	27.06	1120.32	1081.57	1181.22	952.63	697.58	810.36
neuron navigator 1	Nav1	100763751	1.42	1.39	1.08	1.05	1.32	1.22	392.68	398.95	296.86	296.68	361.21	344.89
neuron navigator 2	Nav2	100760394	7.94	7.23	6.08	6.97	6.86	6.52	1863.15	1713.86	1422.19	1629.44	1700.48	1566.51
neuron navigator 3	Nav3	100751663	5.10	4.92	4.72	5.16	4.89	4.49	1471.23	1425.62	1346.42	1496.17	1423.11	1290.78
neuroblastoma amplified sequence	Nbas	100756926	6.66	6.95	7.39	8.12	7.69	8.10	1478.06	1536.34	1648.25	1788.21	1709.80	1784.28
neurobeachin	Nbea	100770254	5.29	4.98	5.35	6.20	6.26	5.89	1649.72	1550.07	1669.36	1949.30	1935.42	1804.85
neurobeachin-like 1	Nbeal1	100768393	1.23	1.07	0.79	1.19	1.47	1.24	372.17	325.75	247.18	346.52	436.76	374.80
neurobeachin-like 2	Nbeal2	100769109	1.41	1.33	1.21	0.89	0.67	0.83	398.00	383.40	355.24	268.87	204.93	243.01
nibrin	Nbn	100750782	9.31	10.36	9.61	11.40	11.65	11.35	704.09	785.10	717.93	865.71	874.56	835.59
neighbor of BRCA1 gene 1	Nbr1	100771299	88.99	88.85	67.48	75.43	76.86	76.84	11088.51	11234.78	8535.62	9372.19	9612.95	9738.32
neurocalcin delta	Ncald	100766704	0.05	0.17	0.04	0.04	0.06	0.03	4.56	10.07	3.73	2.32	6.21	2.80
neural cell adhesion molecule 1	Ncam1	100770418	176.79	168.67	150.95	162.10	170.01	176.39	15532.58	14868.38	13318.90	14060.02	14808.58	15308.02
neural cell adhesion molecule 2	Ncam2	100766908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
neurocan	Ncan	100766384	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
non-SMC condensin I complex, subunit D2	Ncapd2	100753087	35.87	35.41	37.36	38.54	37.74	37.99	5004.60	4972.29	5174.53	5346.10	5214.26	5299.58
non-SMC condensin II complex, subunit D3	Ncapd3	100752080	17.39	17.79	18.17	21.59	25.39	23.08	2675.10	2745.10	2797.18	3273.95	3818.06	3525.57
non-SMC condensin I complex, subunit G	Ncapg	100767775	11.38	12.20	10.15	12.45	14.77	13.72	1455.28	1593.07	1310.40	1600.47	1881.61	1711.38
non-SMC condensin II complex, subunit G2	Ncapg2	100752041	31.52	32.27	29.50	33.44	34.60	35.70	4572.43	4739.87	4507.53	4940.48	5188.39	5188.35
non-SMC condensin I complex, subunit H	Ncaph	100751228	33.51	36.28	38.44	39.76	45.20	44.81	2656.87	2874.12	3061.74	3105.91	3499.29	3493.80
non-SMC condensin II complex, subunit H2	Ncaph2	100756862	70.33	69.93	79.77	77.42	74.16	81.37	4378.74	4355.56	4989.46	4687.83	4573.60	5060.30
nuclear cap binding protein subunit 1, 80kDa	Ncbp1	100770427	39.28	39.09	21.80	24.26	26.85	26.42	3582.75	3559.48	1986.10	2188.04	2416.69	2391.82
nuclear cap binding protein subunit 2, 20kDa	Ncbp2	100750917	45.45	45.97	31.67	32.48	38.29	36.49	2723.71	2769.81	1921.51	1960.89	2286.28	2189.93
non-specific cytotoxic cell receptor protein 1 homolog (zebrafish)	Nccrp1	100770916	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	0.00	2.07	0.93
neurochondrin	Ncdn	100766879	29.00	25.79	24.40	17.57	11.66	11.93	3133.86	2763.40	2615.83	1849.64	1262.68	1318.82
neutral cholesterol ester hydrolase 1	Nceh1	100756133	12.50	13.14	15.35	15.99	13.21	13.08	1614.02	1690.07	1997.28	2058.24	1700.48	1700.16

neutrophil cytosolic factor 1	Ncf1	100769204	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
neutrophil cytosolic factor 2	Ncf2	100767090	0.07	0.02	0.00	0.00	0.00	0.03	2.28	0.92	0.00	0.00	0.00	0.93
neutrophil cytosolic factor 4, 40kDa	Ncf4	100773086	0.06	0.04	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
NCK adaptor protein 1	Nck1	100769675	12.10	11.86	6.26	7.36	7.75	6.44	834.73	820.79	433.49	509.92	530.95	448.64
NCK adaptor protein 2	Nck2	100762895	8.51	7.96	7.48	5.12	4.52	4.09	511.17	501.44	452.12	314.07	289.80	274.79
NCK-associated protein 1	Nckap1	100758647	74.83	74.24	69.47	77.31	86.49	81.40	9766.16	9711.25	9062.27	9981.78	11113.68	10482.32
NCK-associated protein 1-like	Nckap1l	100770185	0.02	0.03	0.00	0.02	0.00	0.01	2.28	3.66	0.00	2.32	0.00	0.93
NCK-associated protein 5	Nckap5	100759872	0.03	0.03	0.02	0.01	0.01	0.01	4.56	5.49	3.73	4.64	1.03	3.74
NCK-associated protein 5-like	Nckap5l	100757554	6.39	6.33	5.79	4.07	2.15	2.30	881.07	883.01	808.60	569.03	293.94	321.53
NCK interacting protein with SH3 domain	Nckipsd	100760109	2.20	2.02	3.33	2.38	2.41	2.31	195.20	190.33	289.41	219.04	218.38	208.43
nucleolin	Ncl	100689056	1254.42	1256.20	1284.38	1409.55	1259.44	1219.97	84601.28	86026.88	88063.96	95124.14	84938.22	81944.36
nicalin	Ncln	100761580	45.60	41.53	34.02	22.29	13.53	15.62	3358.68	3130.33	2572.36	1709.41	1050.51	1212.27
noncompact myelin associated protein	Ncmap	100757704	0.08	0.29	0.07	0.13	0.00	0.00	2.28	6.41	2.48	2.32	0.00	0.93
nuclear receptor coactivator 1	Ncoa1	100755152	10.44	11.11	10.41	11.17	11.84	11.39	1906.44	2041.44	1947.59	2039.70	2139.32	2031.97
nuclear receptor coactivator 2	Ncoa2	100762955	6.41	6.03	5.69	6.02	5.66	6.75	916.00	883.01	819.78	869.19	816.60	951.49
nuclear receptor coactivator 3	Ncoa3	100774568	13.72	13.22	14.30	14.65	16.51	16.44	2662.94	2615.17	2658.07	2691.01	2929.01	2947.01
nuclear receptor coactivator 4	Ncoa4	100756488	49.87	51.35	55.04	57.95	65.01	64.99	4134.17	4242.10	4554.73	4721.44	5252.56	5337.90
nuclear receptor coactivator 5	Ncoa5	100768131	24.12	24.11	18.26	16.78	16.29	17.07	2092.53	2092.68	1581.18	1459.08	1414.83	1492.67
nuclear receptor coactivator 6	Ncoa6	100751846	16.79	16.62	16.04	17.18	16.00	16.23	3417.93	3392.94	3289.05	3523.12	3239.51	3311.53
nuclear receptor coactivator 7	Ncoa7	100773831	7.22	7.66	4.43	5.17	5.79	5.31	989.68	1055.95	618.56	702.31	795.90	727.17
nuclear receptor corepressor 1	Ncor1	100760832	9.06	8.72	8.64	9.71	8.92	8.51	2871.82	2808.24	2840.65	3203.25	2904.17	2794.66
nuclear receptor corepressor 2	Ncor2	100769124	8.87	8.47	7.05	4.80	2.93	3.59	2533.06	2469.68	2027.09	1406.93	908.72	1041.22
natural cytotoxicity triggering receptor 3	Ncr3	100772283	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
natural killer cell cytotoxicity receptor 3 ligand 1	Ncr3lg1	103163672	1.38	1.24	1.28	1.34	1.24	1.46	139.00	134.51	142.84	152.98	132.48	154.22
neuronal calcium sensor 1	Ncs1	100757383	9.52	9.08	8.84	7.86	6.55	6.69	327.36	340.39	334.12	275.82	247.36	264.51
nicastrin	Ncstn	100761836	78.18	80.29	77.12	81.46	72.08	78.65	6591.28	6822.49	6599.21	6834.15	6072.26	6607.18
NDC1 transmembrane nucleoporin	Ndc1	100766175	17.43	17.85	24.16	26.38	29.02	28.12	2418.37	2452.29	3338.73	3614.67	3945.37	3862.99
NDC80 kinetochore complex component	Ndc80	100751668	56.74	58.64	52.18	60.71	65.72	59.11	3801.49	3913.60	3490.26	3968.14	4197.90	3831.21
nudE neurodevelopment protein 1	Nde1	100771293	43.26	40.64	38.60	37.99	42.66	45.09	2499.64	2466.93	2109.06	2072.15	2362.87	2418.93
nudE neurodevelopment protein 1-like 1	Ndel1	100759290	40.30	43.11	45.42	47.82	49.40	49.36	2119.87	2147.58	2291.65	2225.13	2191.07	2183.39
Nedd4 family interacting protein 1	Ndfip1	100766303	39.25	40.66	43.03	46.22	52.88	53.22	1890.49	1980.13	2081.74	2164.86	2522.26	2503.05
Nedd4 family interacting protein 2	Ndfip2	100759142	33.91	32.76	32.03	35.15	40.59	42.24	2133.55	2121.96	2074.29	2239.03	2557.45	2623.62
neuron-derived neurotrophic factor	Ndnf	100757334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADPH dependent diflavin oxidoreductase 1	Ndor1	100771833	15.69	16.09	20.28	18.52	15.46	15.39	1224.38	1255.43	1529.01	1428.95	1210.93	1208.53
Norrie disease (pseudoglioma)	Ndp	100759937	4.35	3.76	4.01	4.36	5.12	4.52	259.76	235.16	228.54	264.23	313.60	273.86
N-myc downstream regulated 1	Ndrg1	100758250	21.48	22.54	12.32	10.58	7.22	7.91	850.68	889.41	490.62	433.44	304.29	342.09
NDRG family member 2	Ndrg2	100752580	0.02	0.00	0.00	0.00	0.00	0.09	0.76	1.83	0.00	1.16	0.00	2.80
NDRG family member 4	Ndrg4	100761199	0.02	0.03	0.00	0.04	0.03	0.00	1.52	0.92	0.00	1.16	1.03	0.93

N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	Ndst1	100766710	5.90	5.83	7.22	6.50	5.14	5.69	641.81	648.76	794.94	711.58	562.00	641.18
N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2	Ndst2	100758914	11.80	11.23	13.82	12.62	12.37	12.79	1364.13	1324.97	1612.23	1470.67	1424.14	1500.14
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa	Ndufa1	100689328	148.80	133.11	164.83	179.68	191.54	220.09	644.85	600.26	664.52	677.97	747.26	843.07
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa	Ndufa10	100767451	111.51	110.27	125.40	135.48	135.84	135.68	4611.16	4629.15	5247.82	5605.70	5640.68	5594.93
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa	Ndufa11	100772543	174.62	167.72	144.11	91.35	49.09	56.86	1481.10	1370.72	1163.84	646.68	330.16	385.08
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12	Ndufa12	100757306	128.59	127.24	125.67	118.87	123.89	125.01	1911.76	1906.01	1858.16	1696.66	1801.91	1773.07
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13	Ndufa13	100762893	36.96	38.65	39.83	28.08	17.56	19.81	921.32	869.28	941.50	702.31	442.97	541.17
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa	Ndufa2	100754444	46.79	39.76	52.83	41.02	28.09	37.32	479.27	427.32	552.73	423.01	298.08	367.33
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa	Ndufa3	100764988	23.76	25.22	25.17	19.87	22.43	25.70	417.75	417.26	447.15	382.44	398.47	406.58
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa	Ndufa4	100766611	299.56	289.60	204.17	188.51	197.66	200.16	3395.90	3271.24	2284.20	2031.59	2193.14	2218.91
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2	Ndufa4l 2	100755007	1.01	0.76	0.85	0.83	0.98	0.80	41.77	29.28	22.36	30.13	27.94	20.56
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5	Ndufa5	100760870	207.86	192.64	234.13	223.80	237.30	267.42	1768.97	1720.26	1935.17	1840.36	2014.08	2078.71
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa	Ndufa6	100750797	104.89	105.15	111.22	98.36	98.33	94.60	1097.53	1107.19	1148.93	985.08	993.59	957.10
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7, 14.5kDa	Ndufa7	100755602	96.95	84.11	97.44	78.22	59.90	73.86	1256.28	1123.66	1201.10	921.34	731.74	875.79
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa	Ndufa8	100770579	151.73	141.15	142.14	133.17	108.64	118.63	2952.33	2732.29	2710.23	2494.00	2045.13	2235.73
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa	Ndufa9	100773563	79.22	77.19	79.93	76.89	74.96	81.38	2782.95	2693.86	2766.13	2607.57	2600.92	2766.62
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	Ndufab1	100765100	148.62	158.32	164.77	150.65	156.28	152.32	2394.07	2563.92	2563.67	2336.38	2477.76	2381.54
NADH dehydrogenase (ubiquinone) complex I, assembly factor 1	Ndufaf1	100762410	32.13	33.18	35.61	35.89	39.09	40.07	1015.50	1055.03	1122.85	1146.17	1229.56	1264.61
NADH dehydrogenase (ubiquinone) complex I, assembly factor 2	Ndufaf2	100755520	45.03	45.18	47.20	46.42	50.57	46.48	514.97	507.84	517.95	526.15	560.96	491.64
NADH dehydrogenase (ubiquinone) complex I, assembly factor 3	Ndufaf3	100764109	20.84	20.09	19.62	16.03	12.08	12.97	515.73	500.52	457.09	281.62	171.81	210.30
NADH dehydrogenase (ubiquinone) complex I, assembly factor 4	Ndufaf4	100768936	16.69	17.81	18.67	19.58	20.77	18.42	954.74	1011.11	1061.98	1116.04	1172.64	1044.96
NADH dehydrogenase (ubiquinone) complex I, assembly factor 5	Ndufaf5	100770742	15.32	14.68	15.48	15.45	17.70	17.53	436.74	425.49	445.91	431.12	516.46	474.81
NADH dehydrogenase (ubiquinone) complex I, assembly factor 7	Ndufaf7	100756458	27.66	27.24	28.76	29.94	33.10	34.03	1199.31	1202.35	1234.63	1275.97	1402.41	1427.24
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa	Ndufb1	100754039	74.48	65.73	90.79	95.58	101.24	89.47	528.64	490.46	622.29	553.96	571.31	630.90
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa	Ndufb10	100754681	100.43	97.51	102.29	90.12	90.85	94.40	1347.42	1303.01	1415.98	1317.69	1396.20	1426.31
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17.3kDa	Ndufb11	100689361	143.01	135.52	121.31	107.38	99.94	104.65	1863.91	1809.94	1592.36	1372.16	1340.31	1389.85
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa	Ndufb2	100774095	90.63	93.57	89.59	79.91	88.04	79.79	1098.29	1117.26	1071.92	939.88	1026.71	934.67

NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa	Ndufb3	100757431	106.94	101.08	80.70	83.60	89.48	89.36	1626.93	1546.41	1225.94	1247.00	1352.73	1310.41
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa	Ndufb4	100762129	148.62	166.89	140.19	149.22	156.62	149.29	1703.65	1905.10	1577.45	1636.39	1750.16	1662.78
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa	Ndufb5	100757916	127.83	134.29	128.91	122.43	127.84	122.00	2407.74	2558.43	2445.67	2229.76	2403.24	2244.14
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	Ndufb6	100765445	67.19	73.82	69.28	51.05	56.48	52.82	964.61	1059.61	977.52	717.37	829.02	762.69
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	Ndufb7	100754222	81.30	84.71	77.16	54.30	30.13	39.30	1005.63	1077.91	970.07	657.11	387.08	472.01
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	Ndufb8	100752642	285.50	272.85	290.56	298.49	275.66	293.16	2750.29	2636.21	2721.41	2729.26	2612.31	2689.04
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa	Ndufb9	100759795	619.21	570.92	404.88	381.61	341.20	353.10	2074.30	1898.69	1288.04	1199.48	1224.39	1198.25
NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa	Ndufc1	100766880	28.27	30.42	33.33	28.13	30.21	29.35	1191.72	1303.92	1350.15	1158.92	1268.89	1216.01
NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa	Ndufc2	100766442	169.59	176.25	154.43	122.36	124.02	117.54	2360.65	2423.01	2095.40	1644.51	1685.99	1604.83
NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	Ndufs1	100754223	36.60	37.20	37.92	42.20	48.21	46.71	2678.89	2732.29	2768.61	3036.37	3448.57	3358.27
NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	Ndufs2	100768067	42.34	46.05	41.62	43.68	46.01	47.28	2112.28	2289.41	2086.71	2144.00	2270.76	2335.74
NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	Ndufs3	100761333	60.90	58.74	62.56	64.85	62.90	63.95	1548.70	1492.42	1583.66	1588.88	1564.90	1570.25
NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)	Ndufs4	100773999	107.03	116.22	119.74	118.47	112.51	107.66	1707.44	1841.96	1819.66	1749.97	1692.20	1624.46
NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)	Ndufs5	100770445	166.99	162.69	172.69	165.44	169.28	193.63	1885.94	1852.94	1925.23	1767.35	1860.91	2080.57
NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)	Ndufs6	100751523	114.82	113.57	114.93	101.10	87.25	87.91	1348.18	1370.72	1363.81	1139.22	1044.30	1010.38
NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)	Ndufs7	100766693	92.95	90.19	103.26	68.35	37.06	39.84	2164.69	2129.28	2336.37	1578.45	889.05	961.78
NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q reductase)	Ndufs8	100755890	116.17	111.54	198.35	172.40	133.09	142.89	2296.85	2284.84	4067.83	3399.11	2822.41	2925.52
NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa	Ndufv1	100757245	102.66	101.76	171.49	154.40	124.89	146.10	4661.29	4694.12	7854.96	7001.04	5720.37	6571.66
NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa	Ndufv2	100757242	181.35	200.69	230.83	230.18	239.65	233.30	4162.27	4502.88	5154.66	4942.79	5136.64	5028.52
NADH dehydrogenase (ubiquinone) flavoprotein 3, 10kDa	Ndufv3	100761076	67.62	65.54	75.38	66.16	58.87	62.80	2157.09	2165.88	2527.65	2176.45	1867.12	2093.66
nebulin	Neb	100754575	0.72	0.78	0.32	0.50	0.42	0.22	147.35	140.00	55.89	93.87	106.60	69.17
N-terminal EF-hand calcium binding protein 2	Necab2	100758900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	1.24	0.00	3.10	1.87
N-terminal EF-hand calcium binding protein 3	Necab3	100773993	0.09	0.05	0.08	0.19	0.14	0.15	15.19	9.15	19.87	37.09	22.77	25.24
NECAP endocytosis associated 1	Necap1	100774802	41.39	43.50	59.43	62.11	62.44	63.75	3396.66	3575.04	4880.16	5072.59	4952.41	5084.60

NECAP endocytosis associated 2	Necap2	100774256	45.89	46.08	43.76	33.98	25.66	25.28	1560.85	1583.01	1504.17	1199.48	897.33	917.85
necdin	Necdin	100770279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neural precursor cell expressed, developmentally down-regulated 1	Nedd1	100757592	12.14	11.50	11.49	12.71	14.49	13.80	1259.32	1219.74	1202.34	1330.44	1501.77	1419.76
neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase	Nedd4	100755507	242.61	236.94	253.96	283.84	297.84	291.73	35576.06	35243.43	38165.60	42024.75	43831.67	42589.16
neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase	Nedd4l	100769118	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
neural precursor cell expressed, developmentally down-regulated 8	Nedd8	100758651	214.01	216.55	199.40	199.31	194.41	198.63	4240.51	4314.38	3944.87	3814.01	3785.98	3805.97
neural precursor cell expressed, developmentally down-regulated 9	Nedd9	100765156	0.02	0.01	0.00	0.00	0.00	0.00	3.80	0.92	0.00	0.00	0.00	0.00
neurofilament, heavy polypeptide	Nefh	100753127	0.01	0.00	0.02	0.02	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
neurofilament, light polypeptide	Nefl	100774151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurofilament, medium polypeptide	Nefm	100773854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronal growth regulator 1	Negr1	100753024	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
nei endonuclease VIII-like 1 (E. coli)	Neil1	100762109	3.06	3.33	5.25	3.91	4.67	3.92	235.46	236.08	357.72	297.84	315.67	314.05
nei endonuclease VIII-like 2 (E. coli)	Neil2	100756411	0.08	0.10	0.00	0.16	0.08	0.05	3.80	5.49	0.00	8.11	4.14	2.80
nei endonuclease VIII-like 3 (E. coli)	Neil3	100753722	49.88	49.30	41.40	43.31	52.29	50.85	3167.28	3211.77	2685.39	2779.09	3343.01	3291.91
NIMA-related kinase 1	Nek1	100759305	16.00	15.12	14.82	17.33	19.95	17.94	2658.39	2566.67	2495.35	2907.73	3297.47	2959.16
NIMA-related kinase 10	Nek10	100770613	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
NIMA-related kinase 11	Nek11	100764820	0.24	0.27	0.36	0.16	0.39	0.21	18.99	25.62	22.36	18.54	26.91	28.04
NIMA-related kinase 2	Nek2	100751300	68.57	70.21	68.83	71.64	79.35	75.72	6121.13	6283.54	6169.45	6372.90	6994.44	6741.77
NIMA-related kinase 3	Nek3	100771488	5.29	4.40	5.49	6.26	6.22	6.31	337.99	293.73	337.85	402.15	420.20	402.84
NIMA-related kinase 4	Nek4	100761888	7.36	6.18	8.74	8.98	11.14	10.46	712.45	601.18	853.31	891.21	1108.47	1050.57
NIMA-related kinase 5	Nek5	100752822	0.07	0.08	0.00	0.10	0.07	0.07	16.71	19.22	3.73	13.91	6.21	4.67
NIMA-related kinase 6	Nek6	100772485	52.32	52.81	76.65	81.29	86.17	84.93	2550.53	2504.45	3666.64	3775.76	3855.32	3906.92
NIMA-related kinase 7	Nek7	100765727	55.10	54.50	66.94	72.81	88.73	82.50	4145.57	4103.93	5060.26	5456.19	6644.61	6252.01
NIMA-related kinase 8	Nek8	100762577	7.12	7.32	7.10	6.03	5.62	6.02	692.70	714.64	689.36	603.80	556.82	581.36
NIMA-related kinase 9	Nek9	100759330	27.10	26.73	29.76	32.79	34.45	34.65	3828.08	3820.26	4298.86	4626.41	4815.79	4842.52
negative elongation factor complex member A	Nelfa	100769975	30.48	31.14	28.43	25.06	21.24	22.84	2015.06	2060.66	1881.76	1645.67	1391.02	1494.54
negative elongation factor complex member B	Nelfb	100773760	34.61	33.86	33.49	33.31	31.65	34.12	2599.90	2554.77	2546.28	2504.43	2376.33	2627.36
negative elongation factor complex member C/D	Nelfcd	100766768	28.36	26.44	24.53	25.46	27.61	31.26	1995.31	1880.39	1760.04	1782.42	1951.98	2189.00
negative elongation factor complex member E	Nelfe	100769129	59.66	55.41	72.70	62.84	47.82	50.97	2151.77	2041.44	2684.15	2286.55	1758.44	1861.86
NEL-like 1 (chicken)	Nell1	100765471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neudesin neurotrophic factor	Nenf	100763815	77.41	69.40	77.08	74.58	60.12	71.71	1691.49	1539.09	1696.69	1612.06	1309.26	1554.36
neogenin 1	Neo1	100759045	26.73	26.63	27.71	30.32	30.25	29.43	4636.99	4688.63	4883.89	5297.42	5259.80	5091.15
nestin	Nes	100761741	0.01	0.02	0.00	0.00	0.01	0.00	1.52	2.75	0.00	0.00	1.03	0.00
neuroepithelial cell transforming 1	Net1	100767327	48.83	50.61	43.22	48.83	49.69	48.59	4400.77	4615.43	3979.65	4463.00	4560.15	4482.68
neuropilin (NRP) and tolloid (TLL)-like 1	Neto1	100753656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuropilin (NRP) and tolloid (TLL)-like 2	Neto2	100755201	0.00	0.03	0.00	0.00	0.17	0.03	0.00	0.92	0.00	0.00	1.03	1.87

sialidase 1 (lysosomal sialidase)	Neu1	100689373	25.18	23.41	24.61	16.13	8.33	10.18	982.84	942.48	982.49	710.42	428.48	539.30
sialidase 2 (cytosolic sialidase)	Neu2	100689301	23.36	20.98	5.36	3.81	4.03	5.95	1140.83	1018.43	268.29	216.72	229.77	302.83
sialidase 3 (membrane sialidase)	Neu3	100689090	1.98	2.13	1.77	2.01	1.84	2.05	50.13	56.73	50.93	41.72	49.68	55.15
sialidase 4	Neu4	100774175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuralized E3 ubiquitin protein ligase 1	Neurl1	100754551	1.96	1.68	1.99	1.56	1.14	1.07	191.40	167.45	191.28	155.30	111.78	107.49
neuralized E3 ubiquitin protein ligase 1B	Neurl1b	100774284	1.67	1.54	1.38	1.35	1.59	1.81	161.02	156.47	121.72	127.48	149.04	174.78
neuralized E3 ubiquitin protein ligase 2	Neurl2	100772535	7.35	7.37	6.69	5.44	7.63	8.01	529.40	549.02	505.53	414.89	563.03	581.36
neuralized E3 ubiquitin protein ligase 3	Neurl3	100770512	27.63	25.37	30.64	22.51	15.81	18.31	1032.97	950.72	1129.06	818.20	582.70	669.22
neuralized E3 ubiquitin protein ligase 4	Neurl4	100761129	9.37	9.03	11.73	11.07	8.91	9.83	1532.75	1480.52	1900.39	1769.67	1470.72	1641.28
neuronal differentiation 1	Neurod1	100763484	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronal differentiation 2	Neurod2	100768128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronal differentiation 4	Neurod4	100753246	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronal differentiation 6	Neurod6	100771686	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurogenin 1	Neurog1	100774074	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurogenin 3	Neurog3	100764838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nexilin (F actin binding protein)	Nexn	100757659	0.41	0.28	0.20	0.28	0.37	0.27	34.18	29.28	18.63	27.81	33.12	25.24
neurofibromin 1	Nf1	100770202	7.97	7.74	7.64	8.60	9.24	9.01	2621.93	2535.56	2492.87	2767.50	2981.80	2915.23
neurofibromin 2 (merlin)	Nf2	100774197	26.78	25.94	28.48	29.60	30.62	31.20	3464.26	3360.92	3692.72	3834.87	3933.98	3996.65
NFAT activating protein with ITAM motif 1	Nfam1	100752842	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurofascin	Nfasc	100752815	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear factor of activated T-cells 5, tonicity-responsive	Nfat5	100762834	10.10	9.92	9.74	11.44	13.37	12.94	3829.60	3780.92	3707.63	4366.81	5024.86	4913.56
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	Nfatc1	100764851	4.32	4.56	3.89	2.94	2.45	2.98	626.62	659.74	565.15	463.57	399.50	455.18
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	Nfatc2	100762227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	Nfatc2ip	100764196	7.89	7.65	9.82	9.64	10.33	10.09	727.64	706.41	927.84	890.05	934.59	956.17
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	Nfatc3	100760989	17.59	17.94	18.91	21.10	21.03	21.13	1945.94	1970.07	2075.53	2300.46	2341.14	2378.73
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	Nfatc4	100768420	0.15	0.14	0.18	0.07	0.04	0.14	15.95	12.81	24.84	10.43	7.24	14.02
nuclear factor, erythroid 2	Nfe2	100770204	0.05	0.00	0.03	0.05	0.00	0.06	2.28	0.00	1.24	2.32	0.00	2.80
nuclear factor, erythroid 2-like 1	Nfe2l1	100751832	154.92	151.72	120.45	115.84	107.02	114.83	22113.22	21705.51	17387.97	16766.09	15287.78	16505.33
nuclear factor, erythroid 2-like 2	Nfe2l2	100752102	110.81	112.13	138.69	148.04	162.22	147.83	7337.15	7375.17	9165.36	9580.79	10371.60	9568.21
nuclear factor, erythroid 2-like 3	Nfe2l3	103162263	1.33	1.24	0.97	1.30	1.45	1.11	497.50	589.28	512.98	585.25	643.76	558.00
nuclear factor I/A	Nfia	100756120	1.33	1.27	1.37	1.55	1.53	1.37	347.11	333.99	367.66	403.30	396.40	356.11
nuclear factor I/B	Nfib	100761735	4.72	4.58	4.50	5.53	5.58	5.47	1104.37	1066.93	1065.71	1295.67	1292.70	1289.84

nuclear factor I/C (CCAAT-binding transcription factor)	Nfic	100770733	21.32	20.84	15.97	10.13	6.51	6.18	1682.38	1616.86	1284.32	832.10	501.97	493.51
nuclear factor, interleukin 3 regulated	Nfil3	100772868	13.78	13.57	20.08	17.91	12.01	13.92	685.10	669.80	1001.12	877.30	586.84	690.72
nuclear factor I/X (CCAAT-binding transcription factor)	Nfix	100764552	11.91	12.76	11.49	9.78	7.50	8.16	1423.38	1548.24	1397.35	1177.46	934.59	991.68
nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	Nfkb2	100774604	127.78	125.54	122.53	103.40	78.46	81.84	11409.04	11109.42	11023.52	9123.02	6912.67	7243.69
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	Nfkbia	100754153	80.96	87.43	78.59	77.35	80.79	76.05	2555.09	2756.08	2492.87	2419.82	2522.26	2376.87
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	Nfkbib	100769201	20.50	20.14	19.71	13.75	8.54	10.23	562.82	556.34	541.55	384.76	241.15	285.07
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, delta	Nfkbid	100772746	0.15	0.22	0.30	0.29	0.20	0.00	3.80	6.41	9.94	10.43	5.17	5.61
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	Nfkbie	100757980	9.85	9.26	12.87	12.24	11.40	12.90	712.45	665.23	922.87	876.14	821.78	940.28
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1	Nfkbil1	100772871	5.62	5.54	6.95	4.45	2.73	3.06	284.83	283.66	350.27	238.74	144.90	152.35
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	Nfkbiz	100759240	1.91	2.02	2.22	2.70	2.65	2.20	222.54	223.27	257.11	309.43	301.18	255.16
nuclear factor related to kappaB binding protein	Nfrkb	100756883	6.26	6.21	6.42	6.72	6.02	5.92	1016.26	1020.26	1043.35	1094.02	971.85	969.25
NFS1 cysteine desulfurase	Nfs1	100756727	108.26	103.72	117.38	112.30	106.51	118.24	6295.06	6134.38	6882.40	6559.49	6322.73	6889.45
NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae)	Nfu1	100772473	41.13	42.61	43.84	44.75	42.90	44.71	1228.93	1274.64	1291.77	1304.94	1260.61	1281.43
nuclear transcription factor, X-box binding 1	Nfx1	100759843	15.74	15.65	17.20	18.31	18.67	18.87	1953.53	1940.79	2187.31	2261.05	2308.02	2346.02
nuclear transcription factor, X-box binding-like 1	Nfxl1	100768316	17.98	17.25	17.97	19.59	19.06	18.39	1991.51	1949.02	1992.31	2149.80	2083.43	2027.30
nuclear transcription factor Y, alpha	Nfya	100755500	15.33	15.47	17.53	17.38	17.48	18.72	1794.03	1828.24	2073.04	2033.90	2014.08	2160.02
nuclear transcription factor Y, beta	Nfyb	100765985	36.60	35.41	33.60	36.83	38.10	38.40	432.94	420.92	403.68	419.53	438.83	420.60
nuclear transcription factor Y, gamma	Nfyc	100753923	45.47	47.24	48.22	43.61	32.53	34.97	2238.36	2312.29	2336.37	2079.10	1606.30	1703.90
neuroglobin	Ngb	100765041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuroguidin, EIF4E binding protein	Ngdn	100764946	88.16	83.81	91.50	92.87	97.21	102.39	2778.39	2744.19	2948.71	2948.29	3112.20	3153.58
neuronal guanine nucleotide exchange factor	Ngef	100773544	1.44	1.61	1.75	1.37	2.23	2.33	101.78	118.04	129.18	103.14	160.42	168.24
nerve growth factor (beta polypeptide)	Ngf	100750778	11.45	10.62	8.97	8.29	5.95	5.84	306.85	280.00	236.00	221.35	158.35	157.96
nerve growth factor receptor	Ngfr	100755566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nerve growth factor receptor (TNFRSF16) associated protein 1	Ngfrap1	100770930	106.52	103.05	104.94	99.20	100.53	98.85	1715.80	1660.79	1681.79	1556.43	1584.56	1558.09
N-glycanase 1	Ngly1	100770329	13.38	14.11	10.52	9.16	11.45	11.17	929.68	1009.28	740.28	673.33	812.46	788.86
neugrin, neurite outgrowth associated	Ngrn	100771747	80.74	74.45	76.68	77.66	89.60	93.83	3034.36	2838.43	2891.58	2871.80	3329.55	3504.08
nonhomologous end-joining factor 1	Nhej1	100769596	2.69	2.69	1.90	2.13	2.39	2.79	128.36	126.27	93.16	98.51	110.74	123.38
nescient helix loop helix 1	Nhlh1	100761552	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NHL repeat containing E3 ubiquitin protein ligase 1	Nhlrc1	100762394	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NHL repeat containing 2	Nhlrc2	100751107	7.96	8.37	10.77	12.43	13.57	13.21	2006.70	2105.49	2737.56	3162.69	3437.19	3371.35
NHL repeat containing 3	Nhlrc3	100753138	9.30	8.68	11.71	13.23	11.19	11.61	489.90	473.07	640.92	724.32	608.57	623.42
NHL repeat containing 4	Nhlrc4	100767176	0.00	0.00	0.00	0.00	0.00	0.09	0.76	0.00	0.00	2.32	1.03	1.87
NHP2 ribonucleoprotein	Nhp2	100759402	57.65	55.48	76.00	55.28	47.36	48.88	1106.65	1057.78	1455.73	1044.19	928.38	929.06
NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae)	Nhp2l1	100771351	154.02	151.74	143.68	139.30	117.25	123.27	2411.54	2388.24	2274.26	2147.48	1834.00	1924.48
Nance-Horan syndrome (congenital cataracts and dental anomalies)	Nhs	100750403	1.82	1.56	2.11	2.54	2.80	2.62	440.53	376.08	510.50	611.91	671.71	637.44
NHS-like 1	Nhsl1	100774825	4.09	4.10	4.10	3.87	3.18	2.97	697.26	697.26	700.54	659.43	551.65	519.68
NHS-like 2	Nhsl2	100758299	1.19	1.26	1.67	1.84	2.05	1.62	116.21	121.70	167.68	187.75	195.61	163.57
nicolin 1	Nicn1	103163073	7.22	6.45	6.28	5.22	7.49	7.75	379.77	342.22	319.22	288.57	375.70	417.80
nidogen 2 (osteonidogen)	Nid2	100769615	0.01	0.00	0.01	0.01	0.00	0.01	7.60	7.32	6.21	8.11	8.28	10.28
NIF3 NGG1 interacting factor 3-like 1 (S. cerevisiae)	Nif3l1	100758007	30.86	31.08	33.65	35.39	37.41	37.29	1240.33	1254.51	1401.07	1447.49	1525.57	1486.12
nucleolar protein interacting with the FHA domain of MKI67	Nifk	100756413	215.52	235.89	208.99	210.81	197.12	189.59	9738.05	10661.97	9467.19	9364.07	8805.66	8515.78
NIM1 serine/threonine protein kinase	Nim1k	100762530	1.52	1.68	1.80	1.75	1.89	1.77	126.84	140.92	149.05	146.02	154.21	148.61
ninein (GSK3B interacting protein)	Nin	100766463	8.39	7.69	6.35	7.58	7.50	7.26	2374.32	2190.59	1802.27	2138.21	2085.50	2045.06
ninjurin 1	Ninj1	100759150	28.05	26.73	29.88	28.54	32.91	33.53	789.92	759.48	866.98	788.07	923.21	928.13
ninjurin 2	Ninj2	100756238	5.24	5.00	2.73	3.03	3.03	3.99	123.80	118.95	67.07	79.97	73.48	101.88
ninein-like	Ninl	100764839	2.88	3.36	3.17	3.32	2.97	2.52	461.80	528.89	495.59	519.20	465.74	410.32
NIP7, nucleolar pre-rRNA processing protein	Nip7	100759635	71.54	70.83	58.28	69.45	64.34	65.39	2278.62	2250.07	1901.63	2159.07	2086.53	2114.22
non imprinted in Prader-Willi/Angelman syndrome 1	Nipa1	100761086	1.36	1.85	1.31	1.90	2.03	1.69	107.85	140.00	105.58	140.23	155.25	132.72
non imprinted in Prader-Willi/Angelman syndrome 2	Nipa2	100759242	21.89	21.84	22.06	25.37	27.28	27.81	1046.65	1067.84	1074.41	1191.37	1289.59	1290.78
NIPA-like domain containing 1	Nipal1	100774364	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.93
NIPA-like domain containing 2	Nipal2	100755274	0.03	0.07	0.00	0.05	0.04	0.00	0.76	2.75	1.24	5.79	2.07	0.93
NIPA-like domain containing 3	Nipal3	100753342	10.63	10.23	12.92	14.28	13.64	13.69	1628.45	1590.33	2023.36	2223.97	2099.99	2131.98
NIPA-like domain containing 4	Nipal4	100761365	0.03	0.00	0.00	0.04	0.04	0.00	1.52	0.00	0.00	1.16	2.07	0.93
Nipped-B homolog (Drosophila)	Nipbl	100772261	15.46	14.72	11.75	15.35	15.99	14.73	4225.32	4025.23	3270.41	4151.25	4266.21	3962.06
nipsnap homolog 1 (C. elegans)	Nipsnap 1	100773900	53.31	54.74	66.26	63.38	66.46	72.03	2794.34	2915.30	3553.61	3324.94	3457.89	3754.57
nischarin	Nisch	100754172	17.42	16.36	17.71	15.52	13.90	15.21	2952.33	2836.60	3056.78	2648.13	2351.49	2580.62
nitrilase 1	Nit1	100766905	28.53	29.19	32.44	31.18	32.40	34.06	2387.99	2494.38	2865.49	2714.19	2665.09	2763.82
nitrilase family, member 2	Nit2	100756446	56.12	54.86	69.86	71.90	79.46	77.95	1976.32	1991.11	2459.33	2476.61	2769.62	2784.38
Na+/K+ transporting ATPase interacting 1	Nkain1	100761718	61.05	60.09	56.22	54.89	44.87	50.05	4065.05	4030.72	3780.91	3656.39	2982.83	3342.38
Na+/K+ transporting ATPase interacting 2	Nkain2	100762810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Na+/K+ transporting ATPase interacting 3	Nkain3	100752152	0.01	0.00	0.00	0.00	0.02	0.00	0.76	0.92	0.00	0.00	1.03	0.00
Na+/K+ transporting ATPase interacting 4	Nkain4	100758758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NFKB activating protein	Nkap	100767082	14.20	16.51	18.05	22.62	22.73	21.24	569.65	643.27	724.14	861.08	881.81	814.10
NFKB activating protein-like	Nkapl	100771303	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	1.16	1.03	0.00
naked cuticle homolog 1 (Drosophila)	Nkd1	100758544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
naked cuticle homolog 2 (Drosophila)	Nkd2	100753892	0.05	0.03	0.04	0.00	0.09	0.11	5.32	2.75	4.97	2.32	8.28	9.35
natural killer cell granule protein 7	Nkg7	100752474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NFKB inhibitor interacting Ras-like 1	Nkiras1	100767443	10.51	10.27	9.00	9.20	10.04	9.48	281.03	268.10	238.48	248.01	272.20	246.75
NFKB inhibitor interacting Ras-like 2	Nkiras2	100753822	46.31	46.29	38.83	36.70	30.15	34.62	2665.22	2653.60	2241.97	2055.92	1661.15	1917.94
NFKB repressing factor	Nkrf	100764046	4.05	3.91	3.94	4.49	4.87	4.23	579.53	560.92	568.88	645.52	693.44	612.21
natural killer cell triggering receptor	Nktr	100767554	9.04	8.76	7.76	9.10	9.37	9.17	1839.60	1775.17	1579.93	1845.00	1883.68	1870.27
NK2 homeobox 2	Nkx2-2	100769730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NK2 homeobox 3	Nkx2-3	100768689	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NK2 homeobox 5	Nkx2-5	100774866	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NK2 homeobox 6	Nkx2-6	100772699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NK2 homeobox 8	Nkx2-8	100774048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NK3 homeobox 1	Nkx3-1	100752275	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
NK3 homeobox 2	Nkx3-2	100768166	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
NK6 homeobox 3	Nkx6-3	100751652	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
notchless homolog 1 (Drosophila)	Nle1	100774821	49.75	47.07	31.91	25.95	16.39	18.27	2566.48	2476.08	1669.36	1345.51	861.11	963.64
neuroligin 1	Nlgn1	100761653	1.21	1.23	1.51	2.09	1.89	1.65	127.60	129.02	162.71	223.67	204.93	174.78
neuroligin 2	Nlgn2	100759673	8.11	7.62	8.88	8.52	7.22	8.06	976.77	925.10	1083.10	1021.01	869.39	968.32
neuroligin 3	Nlgn3	100755495	0.05	0.03	0.04	0.03	0.02	0.01	3.04	1.83	2.48	3.48	1.03	0.93
nemo-like kinase	Nlk	100768473	13.04	13.64	12.08	11.16	12.11	11.73	1102.09	1130.98	1004.85	934.09	1030.85	972.06
neurolysin (metallopeptidase M3 family)	Nln	100774083	12.58	12.89	12.64	12.90	12.72	12.69	1402.11	1432.94	1407.28	1430.11	1400.34	1412.29
NLR family, CARD domain containing 3	Nlrc3	100770371	0.00	0.00	0.00	0.00	0.01	0.01	0.00	1.83	0.00	0.00	3.10	2.80
NLR family, CARD domain containing 4	Nlrc4	100765631	0.04	0.04	0.05	0.09	0.07	0.10	4.56	3.66	6.21	8.11	7.24	11.22
NLR family, CARD domain containing 5	Nlrc5	100762919	0.15	0.16	0.05	0.07	0.04	0.03	39.50	38.43	19.87	23.18	11.38	8.41
NLR family, pyrin domain containing 10	Nlrp10	100769318	0.04	0.00	0.00	0.02	0.00	0.00	2.28	0.00	0.00	1.16	0.00	0.00
NLR family, pyrin domain containing 12	Nlrp12	100762367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLR family, pyrin domain containing 14	Nlrp14	100753977	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLR family, pyrin domain containing 2	Nlrp2	100768765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLR family, pyrin domain containing 3	Nlrp3	100759809	0.16	0.11	0.02	0.01	0.01	0.04	18.99	12.81	2.48	1.16	1.03	4.67
NLR family, pyrin domain containing 6	Nlrp6	100762992	0.00	0.00	0.00	0.00	0.00	0.02	0.76	2.75	0.00	2.32	0.00	5.61
NLR family, pyrin domain containing 9	Nlrp9	100770646	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLR family member X1	Nlrx1	100756089	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
neuromedin B	Nmb	100771746	0.13	0.04	0.02	0.04	0.02	0.07	12.15	5.49	3.73	12.75	7.24	8.41
neuromedin B receptor	Nmbr	100773994	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NMD3 ribosome export adaptor	Nmd3	100759050	35.28	35.51	34.23	35.17	34.26	32.60	1755.30	1760.52	1705.39	1730.27	1718.08	1571.18
NME/NM23 nucleoside diphosphate kinase 1	Nme1	100765914	322.35	290.89	128.98	137.49	137.26	146.60	5982.13	5458.18	2499.08	2554.26	2449.81	2580.62
NME/NM23 nucleoside diphosphate kinase 3	Nme3	100752009	8.84	8.22	7.63	5.56	4.32	4.81	164.06	158.30	141.60	100.83	86.94	82.25
NME/NM23 nucleoside diphosphate kinase 4	Nme4	100757593	0.00	0.05	0.00	0.06	0.11	0.05	0.00	0.92	0.00	1.16	2.07	0.93

NME/NM23 family member 5	Nme5	100774762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NME/NM23 nucleoside diphosphate kinase 6	Nme6	100763307	28.31	23.24	28.67	27.55	22.51	25.00	751.94	628.63	734.07	679.13	581.66	599.12
NME/NM23 family member 7	Nme7	100762945	23.34	23.63	24.85	25.29	31.10	29.40	1184.88	1213.33	1244.57	1269.02	1570.07	1451.54
NME/NM23 family member 9	Nme9	100771679	0.00	0.03	0.00	0.00	0.00	0.00	0.76	3.66	1.24	1.16	0.00	1.87
N-myc (and STAT) interactor	Nmi	100771173	29.74	29.36	30.30	33.00	36.89	34.54	888.66	893.07	916.66	972.33	1098.12	1017.86
nicotinamide nucleotide adenylyltransferase 1	Nmnat1	100771233	22.99	23.75	24.53	24.32	26.33	26.70	1445.40	1507.98	1574.97	1517.03	1663.22	1687.08
nicotinamide nucleotide adenylyltransferase 2	Nmnat2	100761270	0.13	0.10	0.09	0.08	0.11	0.00	6.84	4.58	6.21	5.79	3.10	0.93
nicotinamide nucleotide adenylyltransferase 3	Nmnat3	103160971	16.77	17.54	10.21	11.30	12.31	13.93	843.85	901.31	526.64	577.14	632.38	725.30
NmrA-like family domain containing 1	Nmral1	100774020	0.00	0.00	0.03	0.09	0.03	0.05	0.00	0.92	2.48	3.48	2.07	2.80
nicotinamide riboside kinase 2	Nmrk2	100773335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuromedin S	Nms	100757218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
N-myristoyltransferase 1	Nmt1	100759338	107.69	109.00	74.26	71.86	69.51	73.40	10185.42	10293.21	7014.06	6712.46	6471.77	6895.99
N-myristoyltransferase 2	Nmt2	100756019	12.46	12.82	11.57	12.98	15.02	13.95	1616.30	1624.18	1504.17	1682.75	1899.20	1778.68
neuromedin U	Nmu	100771232	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
neuromedin U receptor 1	Nmur1	100761119	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.93
neuromedin U receptor 2	Nmur2	100758157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronatin	Nnat	100757948	0.73	0.99	0.69	0.71	0.80	1.23	82.03	110.72	79.49	81.12	79.69	130.85
nicotinamide N-methyltransferase	Nnmt	100767696	23.10	23.36	10.82	9.14	3.55	4.52	1339.07	1355.16	635.95	528.47	209.07	269.18
nicotinamide nucleotide transhydrogenase	Nnt	100764271	24.04	27.48	23.43	25.78	27.19	26.83	1547.94	1750.46	1525.28	1619.01	1714.97	1701.10
nitric oxide associated 1	Noa1	100756189	22.00	24.09	22.22	21.25	21.08	21.45	1626.93	1812.68	1653.22	1571.50	1547.30	1605.76
NIN1/RPN12 binding protein 1 homolog (S. cerevisiae)	Nob1	100761193	140.67	137.54	144.17	130.35	104.40	112.38	6122.65	6086.80	6378.12	5692.61	4612.93	4891.13
NOBOX oogenesis homeobox	Nobox	100756744	0.07	0.03	0.06	0.03	0.05	0.03	7.60	7.32	4.97	4.64	6.21	3.74
nucleolar complex associated 2 homolog (S. cerevisiae)	Noc2l	100772415	93.29	89.13	83.18	84.94	74.56	80.32	7426.01	7214.12	6668.76	6726.37	5977.05	6290.33
nucleolar complex associated 3 homolog (S. cerevisiae)	Noc3l	100689254	25.79	24.68	19.61	24.43	24.91	24.41	2258.87	2219.87	1798.54	2189.20	2220.05	2131.05
nucleolar complex associated 4 homolog (S. cerevisiae)	Noc4l	100773506	47.84	47.20	54.62	46.01	37.39	42.24	2285.45	2239.09	2561.18	2138.21	1756.37	1967.48
nucleotide-binding oligomerization domain containing 1	Nod1	100758777	6.74	6.56	6.87	6.33	6.50	6.65	821.06	811.63	855.80	791.54	800.04	834.66
nucleotide-binding oligomerization domain containing 2	Nod2	100759694	0.47	0.52	0.37	0.25	0.33	0.45	64.56	74.12	49.68	35.93	46.57	62.62
nodal growth differentiation factor	Nodal	100762314	0.06	0.10	0.00	0.04	0.00	0.04	3.80	6.41	1.24	1.16	2.07	0.93
noggin	Nog	100764827	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleolar protein 10	Nol10	100762799	37.44	37.54	42.08	43.39	41.18	42.74	3251.59	3302.36	3692.72	3761.85	3580.02	3685.40
nucleolar protein 11	Nol11	100767464	59.58	60.59	78.77	85.16	88.42	86.63	4590.66	4652.03	6111.07	6571.08	6791.58	6743.64
nucleolar protein 12	Nol12	100752251	65.02	64.06	59.82	46.27	29.25	32.03	1626.17	1617.78	1507.89	1150.81	777.27	804.75
nucleolar protein 3 (apoptosis repressor with CARD domain)	Nol3	100759448	12.40	11.75	8.41	6.43	4.83	4.18	359.26	340.39	240.96	176.16	132.48	117.77
nucleolar protein 4	Nol4	100770685	1.53	1.77	0.00	0.00	0.00	0.00	68.36	66.80	0.00	1.16	0.00	0.00
nucleolar protein 6 (RNA-associated)	Nol6	100760727	8.43	7.92	7.39	6.97	5.41	5.89	957.02	919.61	871.94	796.18	612.71	662.68
nucleolar protein 7, 27kDa	Nol7	100766776	111.97	118.46	108.30	113.02	119.88	111.30	3160.44	3309.68	2961.14	3042.16	3240.54	3005.90
nucleolar protein 8	Nol8	100757996	26.61	26.41	28.99	34.46	34.21	31.56	3360.20	3360.00	3692.72	4257.87	4214.46	3837.75
nucleolar protein 9	Nol9	100768603	108.80	107.92	122.80	125.10	116.84	121.99	5315.26	5212.95	6015.43	5938.31	5418.15	5671.58

nucleolar and coiled-body phosphoprotein 1	Nolc1	100773818	170.24	169.22	183.93	177.21	153.80	162.87	12731.40	12711.65	13687.80	13186.19	11502.84	12185.29
nucleolar protein with MIF4G domain 1	Nom1	100752769	27.41	27.51	24.35	28.77	27.33	26.63	2628.01	2621.57	2374.87	2787.20	2636.11	2613.34
non-POU domain containing, octamer-binding	Nono	100757453	236.04	234.19	215.62	225.41	227.11	229.57	16497.19	16602.37	15362.13	15784.49	15927.40	15933.31
NOP10 ribonucleoprotein	Nop10	100771394	163.33	163.11	173.49	184.28	177.41	178.12	1782.64	1777.00	1881.76	1936.56	1881.61	1880.56
NOP14 nucleolar protein	Nop14	100767594	59.20	61.15	58.45	61.30	59.76	58.10	4753.96	4919.22	4692.60	4867.46	4723.68	4619.14
NOP16 nucleolar protein	Nop16	100751232	87.20	83.22	79.53	57.86	49.98	51.55	2182.16	2127.45	2065.59	1726.79	1547.30	1631.00
NOP2 nucleolar protein	Nop2	100753876	96.07	96.16	97.13	96.80	73.42	80.28	7457.16	7571.90	7707.15	7507.48	5727.61	6207.14
NOP56 ribonucleoprotein	Nop56	100771954	321.77	312.41	336.67	336.02	296.81	299.10	19183.68	18736.23	20293.21	20145.50	17820.39	17831.63
NOP58 ribonucleoprotein	Nop58	100764223	102.22	96.90	84.72	97.56	88.78	81.84	8648.11	8270.07	7232.67	8195.88	7489.16	6870.76
NOP9 nucleolar protein	Nop9	100769858	54.83	52.92	59.15	52.73	46.23	50.28	3271.34	3198.96	3538.71	3168.49	2775.83	3002.16
nitric oxide synthase 1 (neuronal)	Nos1	100758127	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
nitric oxide synthase 2, inducible	Nos2	100760062	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
nitric oxide synthase 3 (endothelial cell)	Nos3	100769961	0.02	0.02	0.04	0.01	0.00	0.00	5.32	6.41	7.45	3.48	1.03	0.00
nitric oxide synthase interacting protein	Nosip	100754869	61.39	57.34	63.49	44.00	30.29	36.24	2170.00	2025.88	2225.82	1761.56	1295.80	1499.21
nitric oxide synthase trafficking	Nostrin	100771451	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
notch 1	Notch1	100761880	0.81	0.73	0.06	0.04	0.04	0.04	192.16	172.94	13.66	8.11	9.31	12.15
notch 2	Notch2	100771788	16.94	16.19	16.71	16.61	14.94	15.08	5193.73	5001.57	5177.02	5112.00	4549.80	4602.31
notch 3	Notch3	100753340	0.83	0.97	0.80	0.70	0.50	0.49	203.56	234.25	198.73	175.00	128.34	122.44
notch 4	Notch4	100765940	0.02	0.02	0.00	0.00	0.01	0.00	11.39	8.24	6.21	6.95	7.24	5.61
notochord homeobox	Noto	100769699	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
notum pectinacetylesterase homolog (Drosophila)	Notum	100768485	0.14	0.11	0.00	0.00	0.00	0.00	14.43	9.15	0.00	0.00	0.00	0.00
nephroblastoma overexpressed	Nov	100755660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuro-oncological ventral antigen 1	Nova1	100764229	6.09	5.97	10.92	10.58	8.95	9.06	603.07	592.94	1080.62	1019.85	889.05	897.28
NADPH oxidase 1	Nox1	100770704	5.17	5.84	4.91	4.88	6.28	5.52	205.08	210.46	170.17	166.88	210.10	181.33
NADPH oxidase 3	Nox3	100772029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NADPH oxidase 4	Nox4	100754626	29.47	30.75	32.35	37.46	38.81	36.08	3246.27	3391.11	3650.49	4106.05	4201.01	3902.25
NADPH oxidase activator 1	Noxa1	100751678	16.50	16.67	22.53	19.40	12.06	15.51	786.12	807.06	1065.71	883.10	571.31	752.41
NADPH oxidase organizer 1	Noxo1	100766881	0.64	0.49	0.70	0.60	0.50	0.85	34.18	33.86	36.02	31.29	33.12	47.67
NADP-dependent oxidoreductase domain containing 1	Noxred1	100763578	0.02	0.03	0.04	0.11	0.07	0.06	0.76	2.75	2.48	4.64	4.14	1.87
neuronal PAS domain protein 1	Npas1	100753085	1.13	1.15	0.70	0.50	0.33	0.27	69.12	74.12	47.20	45.20	27.94	21.50
neuronal PAS domain protein 2	Npas2	100756929	0.18	0.12	0.00	0.04	0.00	0.00	19.75	13.73	1.24	4.64	1.03	0.00
neuronal PAS domain protein 3	Npas3	100759473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronal PAS domain protein 4	Npas4	100761679	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
nuclear protein, ataxia-telangiectasia locus	Npat	100771222	13.16	13.27	14.98	17.69	18.63	17.39	2302.92	2320.53	2631.98	3094.32	3212.60	3047.02
neuropeptide B	Npb	100756604	0.93	0.54	0.49	0.23	0.21	0.09	24.31	14.64	13.66	6.95	5.17	2.80
Niemann-Pick disease, type C1	Npc1	100689424	10.05	9.85	8.44	9.70	9.72	9.22	1213.74	1205.10	1043.35	1162.40	1170.57	1118.80
NPC1-like 1	Npc1l1	100763971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Niemann-Pick disease, type C2	Npc2	100770757	137.80	136.67	122.75	119.70	133.17	145.41	4261.02	4277.78	3843.02	3684.21	4089.23	4463.05
neural proliferation, differentiation and control, 1	Npdc1	100771936	8.42	8.62	11.14	7.30	4.38	5.14	378.25	388.89	483.17	312.91	187.33	224.32
aminopeptidase-like 1	Npepl1	100773084	0.10	0.09	0.05	0.04	0.12	0.11	6.84	5.49	2.48	2.32	5.17	7.48

aminopeptidase puromycin sensitive	Npepps	100763186	34.66	35.28	22.86	24.27	26.98	26.25	2988.79	3121.18	2041.99	2159.07	2408.41	2270.31
neuropeptide FF-amide peptide precursor	Npff	100765160	0.39	0.33	0.40	0.33	0.63	0.48	25.06	24.71	26.08	22.02	36.22	28.04
neuropeptide FF receptor 1	Npffr1	100768907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuropeptide FF receptor 2	Npffr2	100758041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nephronophthisis 1 (juvenile)	Nphp1	100756804	24.06	25.13	29.12	31.03	31.50	31.79	1664.15	1744.05	1962.50	2065.20	2121.72	2119.83
nephronophthisis 3 (adolescent)	Nphp3	100768113	3.19	3.42	3.41	3.91	4.30	4.12	535.48	576.47	575.09	640.88	725.53	698.20
nephronophthisis 4	Nphp4	100772374	11.53	11.09	13.26	11.50	8.98	9.68	903.85	892.16	1063.23	862.24	652.04	715.96
nephrosis 1, congenital, Finnish type (nephrin)	Nphs1	100773617	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nephrosis 2, idiopathic, steroid-resistant (podocin)	Nphs2	100752714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)	Npl	100766218	0.17	0.05	0.14	0.22	0.06	0.08	7.60	0.92	8.69	10.43	1.03	8.41
nuclear protein localization 4 homolog (S. cerevisiae)	Nploc4	100754863	98.98	97.21	69.70	66.99	49.49	52.46	11967.30	11852.43	8574.13	8157.64	6071.23	6366.97
nucleophosmin (nucleolar phosphoprotein B23, numatrin)	Npm1	100761791	783.07	845.17	786.27	811.85	758.25	735.70	25756.73	28240.68	26109.91	26350.36	24912.12	23560.22
nucleophosmin/nucleoplasmin 2	Npm2	100764312	0.18	0.16	0.20	0.19	0.35	0.28	12.15	12.81	14.91	11.59	20.70	26.17
nucleophosmin/nucleoplasmin 3	Npm3	100751292	136.32	136.81	147.16	142.36	136.22	143.62	2898.40	2941.83	3223.22	3028.26	2816.20	2932.99
nephronectin	Npnt	100771465	0.00	0.00	0.00	0.00	0.03	0.00	0.76	0.00	0.00	0.00	1.03	0.93
natriuretic peptide A	Nppa	100774350	0.13	0.09	0.00	0.00	0.04	0.00	4.56	4.58	0.00	1.16	1.03	0.00
natriuretic peptide B	Nppb	100773766	9.07	10.36	0.70	1.00	0.67	1.27	151.15	161.05	12.42	16.22	12.42	22.43
natriuretic peptide C	Nppc	100772809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
natriuretic peptide receptor 1	Npr1	100752423	0.30	0.24	0.24	0.17	0.18	0.26	34.94	27.45	24.84	18.54	20.70	26.17
natriuretic peptide receptor 2	Npr2	100772356	7.08	7.18	8.18	9.16	9.10	8.90	675.23	686.28	804.87	863.40	848.69	828.12
natriuretic peptide receptor 3	Npr3	100774587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nitrogen permease regulator-like 2 (S. cerevisiae)	Nprl2	100751840	9.06	9.94	12.24	13.52	14.47	13.70	439.01	441.05	567.63	577.14	614.78	584.17
nitrogen permease regulator-like 3 (S. cerevisiae)	Nprl3	100758606	19.59	18.04	22.99	20.47	13.41	13.71	1129.43	1032.16	1330.28	1141.54	754.51	829.99
neuropeptide S receptor 1	Npsr1	100765143	0.00	0.00	0.00	0.00	0.03	0.00	0.00	4.58	0.00	0.00	4.14	4.67
neuroplastin	Nptn	100758174	59.17	61.89	53.20	55.41	64.07	60.54	2888.53	3014.12	2612.11	2664.36	3001.46	2868.50
neuronal pentraxin I	Nptx1	100761238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuronal pentraxin II	Nptx2	100764878	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
neuronal pentraxin receptor	Nptxr	100750799	11.56	11.93	11.51	11.04	9.82	10.37	1459.07	1507.98	1464.42	1393.02	1231.63	1306.67
neuropeptide VF precursor	Npvf	100759879	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.03	0.00
neuropeptide W	Npw	100768338	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
neuropeptide Y	Npy	100758436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuropeptide Y receptor Y1	Npy1r	100757157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuropeptide Y receptor Y2	Npy2r	100768987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuropeptide Y receptor Y5	Npy5r	100756867	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
NAD(P)H dehydrogenase, quinone 1	Nqo1	100760905	2.70	2.95	1.67	2.12	1.85	1.96	112.41	127.19	68.31	89.24	80.73	85.05
NAD(P)H dehydrogenase, quinone 2	Nqo2	100760827	10.74	11.38	7.00	7.16	9.87	9.80	379.77	394.38	244.69	243.37	341.55	332.74
nuclear receptor subfamily 0, group B, member 1	Nr0b1	100754328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear receptor subfamily 0, group B, member 2	Nr0b2	100769023	0.25	0.11	0.26	0.24	0.09	0.08	11.39	6.41	7.45	8.11	4.14	1.87

nuclear receptor subfamily 1, group D, member 1	Nr1d1	100771327	26.32	24.15	22.53	19.22	14.07	16.07	1364.89	1300.26	1201.10	993.19	701.72	811.29
nuclear receptor subfamily 1, group D, member 2	Nr1d2	100768895	16.69	17.25	18.18	20.12	19.60	19.57	2039.36	2144.84	2260.60	2512.54	2420.83	2440.42
nuclear receptor subfamily 1, group H, member 2	Nr1h2	100771620	38.29	34.74	39.67	21.17	13.18	14.15	1944.42	1777.00	2028.33	1134.58	713.11	752.41
nuclear receptor subfamily 1, group H, member 3	Nr1h3	100756988	16.67	15.98	15.53	15.01	13.22	13.78	760.30	744.84	711.72	681.44	586.84	626.23
nuclear receptor subfamily 1, group H, member 4	Nr1h4	100763600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear receptor subfamily 1, group I, member 2	Nr1i2	100767943	0.11	0.06	0.12	0.06	0.20	0.13	12.91	16.47	17.39	19.70	21.73	16.82
nuclear receptor subfamily 1, group I, member 3	Nr1i3	100768934	3.55	3.12	4.57	4.47	4.39	3.26	87.35	101.57	104.34	130.96	120.06	104.68
nuclear receptor subfamily 2, group C, member 1	Nr2c1	100757017	21.62	23.27	24.43	26.07	26.14	25.99	2884.73	3029.68	3195.89	3257.72	3200.18	3195.64
nuclear receptor subfamily 2, group C, member 2	Nr2c2	100766644	10.88	10.83	12.40	13.45	14.09	13.55	2204.94	2194.25	2573.60	2740.85	2841.04	2759.14
nuclear receptor 2C2-associated protein	Nr2c2ap	100756914	19.44	18.18	20.68	15.67	11.77	10.53	897.02	843.66	927.84	732.44	560.96	528.09
nuclear receptor subfamily 2, group E, member 1	Nr2e1	100750828	0.38	0.40	0.26	0.28	0.20	0.24	25.82	26.54	17.39	18.54	14.49	17.76
nuclear receptor subfamily 2, group E, member 3	Nr2e3	100752298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear receptor subfamily 2, group F, member 1	Nr2f1	100752362	1.90	2.03	2.34	2.20	2.32	2.24	195.20	207.71	239.72	229.47	244.26	233.67
nuclear receptor subfamily 2, group F, member 2	Nr2f2	100754351	4.78	5.76	6.89	6.76	7.38	7.24	502.81	596.60	731.59	698.83	738.98	747.74
nuclear receptor subfamily 2, group F, member 6	Nr2f6	103163676	9.94	10.30	12.73	8.40	6.89	7.69	390.40	393.46	483.17	309.43	257.71	294.42
nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	Nr3c1	100763961	8.19	8.29	10.62	12.57	14.27	13.31	1819.10	1854.77	2393.50	2804.59	3158.78	2976.92
nuclear receptor subfamily 3, group C, member 2	Nr3c2	100750556	1.32	1.47	2.67	2.94	3.25	3.25	208.11	230.59	411.13	457.77	507.14	511.26
nuclear receptor subfamily 4, group A, member 1	Nr4a1	100764218	1.31	1.40	1.09	0.82	0.66	0.98	135.20	140.00	109.30	83.44	70.38	106.55
nuclear receptor subfamily 4, group A, member 2	Nr4a2	100766422	2.42	2.29	2.65	2.96	2.74	2.60	229.38	223.27	262.08	272.35	256.68	241.14
nuclear receptor subfamily 4, group A, member 3	Nr4a3	100752330	0.27	0.21	0.15	0.17	0.17	0.22	18.99	11.90	11.18	12.75	13.45	13.09
nuclear receptor subfamily 5, group A, member 1	Nr5a1	100772192	0.06	0.03	0.00	0.00	0.00	0.05	2.28	1.83	1.24	0.00	0.00	1.87
nuclear receptor subfamily 5, group A, member 2	Nr5a2	100766752	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear receptor subfamily 6, group A, member 1	Nr6a1	100773066	0.71	0.67	1.32	1.08	1.30	1.21	55.45	51.24	99.37	89.24	96.25	100.94
neuroblastoma RAS viral (v-ras) oncogene homolog	Nras	100757614	69.57	72.40	86.34	91.50	132.44	134.10	7624.25	7974.52	9570.28	10028.13	14542.59	14724.79
nuclear receptor binding factor 2	Nrbf2	100773882	10.11	11.14	9.62	10.03	10.82	10.69	429.14	494.12	408.65	416.05	450.22	443.97
nuclear receptor binding protein 1	Nrbp1	100768309	54.53	56.13	65.48	64.10	59.40	65.97	3459.70	3517.39	4071.56	3932.22	3651.43	4037.77
nuclear receptor binding protein 2	Nrbp2	100758011	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
neuronal cell adhesion molecule	Nrcam	100763077	0.16	0.15	0.02	0.02	0.02	0.02	22.03	21.05	2.48	2.32	2.07	2.80

nardilysin (N-arginine dibasic convertase)	Nrd1	100752575	44.18	44.82	48.76	50.97	55.20	53.77	4963.59	5150.72	5629.14	5749.40	6219.23	6044.51
NRDE-2, necessary for RNA interference, domain containing	Nrde2	100770339	7.07	7.64	8.56	7.72	6.74	7.37	793.72	840.92	950.20	862.24	744.16	829.99
neuronal regeneration related protein	Nrep	100755424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nuclear respiratory factor 1	Nrf1	100755053	41.60	40.32	43.21	43.01	34.66	38.31	3267.54	3227.32	3425.68	3366.66	2715.80	3010.57
neuregulin 1	Nrg1	100757907	0.06	0.16	0.06	0.02	0.00	0.00	3.04	9.15	2.48	2.32	0.00	0.00
neuregulin 2	Nrg2	100759245	2.74	2.61	2.64	2.65	2.77	2.96	91.14	82.35	84.46	83.44	99.36	99.07
neuregulin 3	Nrg3	100763774	0.11	0.10	0.05	0.09	0.01	0.01	10.63	9.15	7.45	10.43	1.03	0.93
neuregulin 4	Nrg4	100757283	0.52	0.68	0.43	0.38	0.32	0.42	28.10	30.20	21.12	22.02	17.59	18.69
neurogranin (protein kinase C substrate, RC3)	Nrgn	100769932	3.55	3.65	0.61	0.65	0.10	0.12	122.29	117.12	18.63	24.34	3.10	4.67
nuclear receptor interacting protein 1	Nrip1	100765412	3.20	3.05	3.06	3.38	3.48	3.10	687.38	650.59	660.79	730.12	740.02	669.22
nuclear receptor interacting protein 2	Nrip2	100769051	5.78	5.74	5.58	4.17	4.50	4.26	269.64	254.38	250.90	183.11	180.09	174.78
nuclear receptor interacting protein 3	Nrip3	100752951	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
Nik related kinase	Nrk	100771899	0.00	0.01	0.00	0.01	0.01	0.00	0.00	2.75	0.00	1.16	1.03	0.00
neural retina leucine zipper	Nrl	100770715	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nurim (nuclear envelope membrane protein)	Nrm	100763789	3.58	3.22	3.49	3.01	3.14	3.41	148.87	137.26	142.84	121.69	130.41	135.53
neuritin 1	Nrn1	100761420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neuritin 1-like	Nrn1l	100752618	0.00	0.11	0.00	0.14	0.00	0.00	0.76	1.83	0.00	4.64	0.00	0.93
neuropilin 1	Nrp1	100763324	19.05	18.71	28.19	29.11	27.39	27.98	3253.11	3217.26	4842.90	4939.32	4640.88	4738.78
neuropilin 2	Nrp2	100754976	22.92	25.07	35.34	39.55	30.32	30.08	3445.27	3815.69	5424.19	6086.65	4628.46	4617.27
negative regulator of reactive oxygen species	Nrros	100752267	0.01	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
neurensin 1	Nrsn1	100770094	0.00	0.00	0.00	0.00	0.09	0.00	2.28	0.00	1.24	1.16	1.03	0.00
neurensin 2	Nrsn2	100760428	1.06	1.02	1.04	0.87	0.70	0.79	66.84	71.37	63.35	54.47	38.29	46.73
neurexin 1	Nrxn1	100761660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurexin 2	Nrxn2	100760525	0.01	0.00	0.00	0.01	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
neurexin 3	Nrxn3	100752126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NSA2 ribosome biogenesis homolog (S. cerevisiae)	Nsa2	100755777	243.84	244.81	246.92	251.79	258.35	239.77	6416.59	6439.09	6465.06	6486.47	6679.80	6176.30
nuclear receptor binding SET domain protein 1	Nsd1	100773206	9.34	9.55	8.26	9.28	10.05	9.61	3199.18	3213.60	2819.54	3193.98	3322.31	3284.43
NAD(P) dependent steroid dehydrogenase-like	Nsdhl	100764429	17.00	19.04	20.77	22.53	22.73	24.04	814.23	921.44	1008.57	1052.30	1089.84	1158.99
N-ethylmaleimide-sensitive factor	Nsf	100770898	260.83	266.14	257.27	271.48	309.56	316.69	5820.35	5672.29	5985.62	6027.54	6869.20	7208.17
NSFL1 (p97) cofactor (p47)	Nsfl1c	100763758	92.81	91.92	87.71	83.75	65.70	75.36	3911.63	3951.11	3744.89	3564.84	2808.95	3118.99
NSL1, MIS12 kinetochore complex component	Nsl1	100765846	11.93	12.93	14.71	16.54	18.63	18.52	956.26	1027.58	1176.26	1313.06	1466.58	1459.95
neutral sphingomyelinase (N-SMase) activation associated factor	Nsmaf	100755374	8.29	8.57	6.56	6.93	9.22	8.26	1084.62	1115.43	847.10	894.69	1164.36	1047.76
non-SMC element 1 homolog (S. cerevisiae)	Nsmce1	100763072	82.97	81.98	88.85	88.33	80.72	85.45	1674.78	1661.70	1779.91	1731.43	1602.16	1687.08
non-SMC element 4 homolog A (S. cerevisiae)	Nsmce4a	100774921	21.92	21.15	27.68	27.72	30.93	29.39	928.16	904.97	1131.54	1186.73	1286.49	1214.14
NMDA receptor synaptonuclear signaling and neuronal migration factor	Nsmf	100752463	23.13	21.70	22.75	19.30	16.30	17.67	2147.98	2044.18	2137.63	1782.42	1575.25	1674.93
nuclear speckle splicing regulatory protein 1	Nsrp1	100754999	23.51	22.26	20.88	26.20	23.49	22.29	1440.85	1372.55	1297.98	1619.01	1436.56	1361.81

NOP2/Sun RNA methyltransferase family, member 2	Nsun2	100760286	83.34	81.88	82.34	86.73	73.76	79.25	6744.71	6833.47	6841.41	7128.52	6042.25	6417.44
NOP2/Sun domain family, member 3	Nsun3	100769254	7.18	7.67	6.24	7.72	8.18	7.88	425.34	458.43	368.90	458.93	494.72	457.05
NOP2/Sun domain family, member 4	Nsun4	100760453	32.84	31.40	31.65	33.75	26.74	29.96	1399.07	1353.33	1365.05	1438.22	1134.34	1282.37
NOP2/Sun domain family, member 5	Nsun5	100761733	37.92	36.08	32.91	26.91	19.85	21.99	1588.20	1491.50	1403.56	1047.66	743.12	829.99
NOP2/Sun domain family, member 6	Nsun6	100773608	11.73	11.73	11.72	13.82	15.03	13.73	694.22	702.75	711.72	805.45	871.46	823.44
NOP2/Sun domain family, member 7	Nsun7	100756084	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.92	0.00	2.32	1.03	0.00
5', 3'-nucleotidase, cytosolic	Nt5c	100757075	11.00	10.88	15.68	14.60	12.92	10.12	257.48	238.82	349.03	312.91	261.85	215.91
5'-nucleotidase, cytosolic IA	Nt5c1a	100772070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5'-nucleotidase, cytosolic IB	Nt5c1b	100755966	0.02	0.00	0.08	0.06	0.00	0.02	2.28	0.00	3.73	3.48	3.10	0.93
5'-nucleotidase, cytosolic II	Nt5c2	100765193	14.88	14.28	18.31	17.11	18.33	17.40	1360.33	1315.82	1676.82	1529.77	1676.68	1602.02
5'-nucleotidase, cytosolic IIIA	Nt5c3a	100768928	21.85	22.45	23.06	22.73	24.06	21.16	898.53	944.31	952.68	951.47	993.59	874.85
5'-nucleotidase, cytosolic IIIB	Nt5c3b	100773030	32.26	31.94	32.83	29.86	28.07	27.81	1245.64	1249.02	1250.78	1138.06	1072.25	1083.28
5'-nucleotidase domain containing 1	Nt5dc1	100752021	13.37	13.74	17.25	19.23	23.60	22.10	1007.15	1070.59	1320.34	1444.01	1796.74	1673.06
5'-nucleotidase domain containing 2	Nt5dc2	100763624	61.54	59.93	74.27	72.30	60.73	61.98	2756.37	2655.43	3271.66	3162.69	2648.53	2705.87
5'-nucleotidase domain containing 3	Nt5dc3	100775059	8.28	7.69	7.61	7.92	6.37	6.90	1379.32	1288.37	1283.08	1324.65	1052.58	1147.77
5'-nucleotidase, ecto (CD73)	Nt5e	100759374	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	2.48	2.32	2.07	1.87
5',3'-nucleotidase, mitochondrial	Nt5m	100767091	1.31	1.37	0.85	1.09	0.42	0.84	38.74	49.41	26.08	30.13	22.77	33.65
N-terminal asparagine amidase	Ntan1	100772842	64.74	65.38	72.60	81.41	90.88	87.88	1964.17	2022.22	2222.09	2420.98	2700.28	2557.26
neurotrophin 3	Ntf3	100774728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nth endonuclease III-like 1 (E. coli)	Nthl1	100755553	27.36	26.75	23.78	22.66	15.36	17.55	805.11	786.01	700.54	664.06	467.81	519.68
neurotrimin	Ntm	100753468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N-terminal Xaa-Pro-Lys N-methyltransferase 1	Ntmt1	100771449	40.75	40.31	36.38	32.03	21.94	23.97	1070.19	1055.95	956.41	792.70	546.47	599.12
netrin 1	Ntn1	100750350	0.04	0.04	0.00	0.06	0.05	0.00	0.76	2.75	2.48	1.16	1.03	0.93
netrin 3	Ntn3	100771322	0.17	0.07	0.05	0.02	0.04	0.00	18.99	14.64	9.94	3.48	5.17	5.61
netrin 4	Ntn4	100754393	11.13	9.71	30.26	32.58	40.12	41.82	1058.04	958.04	2937.54	3181.24	3873.95	4087.31
netrin 5	Ntn5	100750891	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
netrin G1	Ntng1	100773944	0.11	0.00	0.43	0.36	0.55	0.27	6.84	0.00	27.33	22.02	32.08	15.89
netrin G2	Ntng2	100764012	0.00	0.00	0.03	0.00	0.00	0.00	1.52	1.83	2.48	0.00	3.10	4.67
nucleoside-triphosphatase, cancer-related	Ntpcr	100763065	44.40	40.17	30.56	30.65	20.95	24.90	1029.94	938.82	731.59	690.72	483.34	575.76
neurotrophic tyrosine kinase, receptor, type 1	Ntrk1	100751271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
neurotrophic tyrosine kinase, receptor, type 2	Ntrk2	100754339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurotrophic tyrosine kinase, receptor, type 3	Ntrk3	100755800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurotensin	Nts	100760296	0.22	0.26	0.06	0.06	0.00	0.09	6.84	6.41	1.24	1.16	0.00	1.87
neurotensin receptor 1 (high affinity)	Ntsr1	100756437	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
neurotensin receptor 2	Ntsr2	100765229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUAK family, SNF1-like kinase, 1	Nuak1	100766242	4.05	4.00	3.17	3.36	3.63	3.81	626.62	616.73	493.11	524.99	562.00	591.65
NUAK family, SNF1-like kinase, 2	Nuak2	100754593	1.43	1.41	1.06	0.98	0.84	0.94	111.65	103.40	84.46	82.28	69.34	76.64
negative regulator of ubiquitin-like proteins 1	Nub1	100759805	16.51	16.31	19.76	19.27	17.90	18.89	1521.36	1551.90	1883.00	1817.19	1683.92	1759.98
nucleotide binding protein 1	Nubp1	100767724	11.68	11.64	11.52	11.02	9.39	10.20	852.96	849.15	825.99	814.72	721.39	804.75
nucleotide binding protein 2	Nubp2	100752903	22.90	21.94	26.04	21.74	16.30	18.86	811.19	773.20	919.14	796.18	606.50	770.17
nucleotide binding protein-like	Nubpl	100760955	48.65	53.63	48.74	54.01	52.68	48.37	741.31	853.73	792.45	774.16	813.50	738.39

nucleobindin 1	Nucb1	100753243	48.52	46.77	59.65	51.93	39.43	44.74	3010.81	2888.76	3711.36	3167.33	2427.04	2761.01
nucleobindin 2	Nucb2	100754356	56.58	53.74	45.59	53.97	59.63	53.73	2865.74	2764.32	2439.46	2758.23	3052.17	2705.87
nuclear casein kinase and cyclin-dependent kinase substrate 1	Nucks1	100761063	83.97	90.47	90.12	98.32	110.78	107.01	12758.74	14045.76	14126.25	15355.69	17030.70	16413.73
nudC nuclear distribution protein	Nudc	100771417	309.99	289.25	289.32	224.92	180.74	199.38	9832.99	9307.72	9305.71	7148.22	5956.35	6466.98
NudC domain containing 1	Nudcd1	100768048	11.79	12.66	15.84	16.12	13.26	13.64	742.07	791.50	1007.33	1018.69	859.04	844.01
NudC domain containing 2	Nudcd2	100772243	18.37	18.31	17.23	17.00	19.92	18.88	674.47	680.78	630.98	606.12	705.86	659.88
NudC domain containing 3	Nudcd3	100763685	33.53	33.44	34.84	38.20	35.96	38.62	3497.68	3509.15	3657.95	3975.10	3751.83	4033.10
nudix (nucleoside diphosphate linked moiety X)-type motif 1	Nudt1	100770207	17.48	16.19	15.94	13.39	14.84	12.84	376.73	324.84	345.30	303.64	330.16	334.61
nudix (nucleoside diphosphate linked moiety X)-type motif 12	Nudt12	100751938	9.98	9.67	8.58	9.63	13.58	12.40	1196.27	1185.88	1053.29	1172.83	1629.07	1500.14
nudix (nucleoside diphosphate linked moiety X)-type motif 13	Nudt13	100761096	5.75	5.95	5.65	6.12	6.30	6.66	355.46	365.10	360.21	368.54	386.05	420.60
nudix (nucleoside diphosphate linked moiety X)-type motif 14	Nudt14	100770798	0.00	0.06	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
nudix (nucleoside diphosphate linked moiety X)-type motif 15	Nudt15	100761298	3.47	3.30	3.49	3.36	3.86	3.63	132.92	128.10	130.42	125.16	145.93	137.40
nudix (nucleoside diphosphate linked moiety X)-type motif 16	Nudt16	100768978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1	Nudt16l1	100772569	8.25	8.09	8.11	6.66	6.80	6.77	401.04	401.70	406.16	318.70	338.44	326.20
nudix (nucleoside diphosphate linked moiety X)-type motif 17	Nudt17	100753597	0.35	0.26	0.22	0.45	0.38	0.60	57.72	50.33	42.23	60.26	52.78	57.95
nudix (nucleoside diphosphate linked moiety X)-type motif 18	Nudt18	100765600	5.67	5.72	5.11	4.60	4.65	4.97	225.58	231.50	207.43	184.27	189.40	205.63
nudix (nucleoside diphosphate linked moiety X)-type motif 19	Nudt19	100758176	35.58	32.83	42.84	43.08	45.56	48.84	511.17	493.20	647.13	616.55	648.94	697.26
nudix (nucleoside diphosphate linked moiety X)-type motif 2	Nudt2	100769146	14.36	13.33	14.60	15.27	15.74	17.72	487.62	459.35	530.37	545.85	568.21	621.56
nudix (nucleoside diphosphate linked moiety X)-type motif 21	Nudt21	100755858	105.89	102.56	105.58	98.67	110.02	113.58	3277.41	3215.43	3284.08	3018.99	3395.79	3446.13
nudix (nucleoside diphosphate linked moiety X)-type motif 22	Nudt22	100756578	20.86	19.40	26.04	23.70	18.05	20.17	644.85	604.84	832.20	726.64	559.93	629.97
nudix (nucleoside diphosphate linked moiety X)-type motif 3	Nudt3	103158569	69.01	67.55	68.05	59.67	49.40	53.76	2619.65	2699.35	2619.56	2364.20	2050.31	2192.74
nudix (nucleoside diphosphate linked moiety X)-type motif 4	Nudt4	100753131	43.64	42.91	32.03	32.62	28.80	33.91	639.53	654.25	494.35	494.86	434.69	499.11
nudix (nucleoside diphosphate linked moiety X)-type motif 5	Nudt5	100772118	57.78	64.24	70.93	70.46	75.19	77.87	1616.30	1841.05	1983.61	1936.56	2087.57	2079.64
nudix (nucleoside diphosphate linked moiety X)-type motif 6	Nudt6	100757134	3.55	3.86	3.52	2.85	4.48	4.77	91.90	99.74	89.43	71.85	115.92	114.03
nudix (nucleoside diphosphate linked moiety X)-type motif 7	Nudt7	100761840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nudix (nucleoside diphosphate linked moiety X)-type motif 8	Nudt8	100764192	17.99	18.10	29.27	30.60	17.81	19.10	271.92	280.00	444.67	449.66	288.76	304.70
nudix (nucleoside diphosphate linked moiety X)-type motif 9	Nudt9	100766764	64.62	58.38	64.77	64.00	65.97	68.83	2253.55	2100.00	2332.64	2217.01	2331.82	2344.15
NUF2, NDC80 kinetochore complex component	Nuf2	100767003	33.31	35.55	37.37	39.49	49.86	47.45	1813.78	1955.43	2054.41	2132.41	2693.03	2545.11

nuclear fragile X mental retardation protein interacting protein 1	Nufip1	100768910	51.43	51.77	53.00	50.30	48.65	49.39	2463.19	2506.28	2531.37	2347.97	2310.09	2349.76
nuclear GTPase, germinal center associated	Nuggc	100772589	0.02	0.05	0.00	0.00	0.01	0.01	2.28	3.66	0.00	0.00	1.03	0.93
nuclear mitotic apparatus protein 1	Numa1	100762458	37.71	37.71	34.62	31.38	24.96	28.02	7400.19	7395.30	6814.09	6163.14	4907.91	5560.35
numb homolog (Drosophila)	Numb	100771300	18.79	17.82	16.93	17.24	17.47	17.51	1943.66	1868.50	1772.46	1814.87	1771.90	1832.89
numb homolog (Drosophila)-like	Numbl	100769776	3.88	3.55	2.96	1.19	1.25	1.39	128.36	136.34	108.06	42.88	43.47	52.34
nucleoporin 107kDa	Nup107	100769827	24.62	25.27	26.80	28.49	30.35	30.01	2330.27	2433.07	2548.76	2655.09	2820.34	2804.01
nucleoporin 133kDa	Nup133	100768681	29.76	29.53	39.49	40.36	40.89	44.10	3397.42	3392.94	4524.92	4539.49	4642.95	4988.33
nucleoporin 153kDa	Nup153	100761805	55.62	56.11	51.40	56.03	54.87	52.69	8950.41	9037.79	8351.79	9008.28	8763.23	8434.46
nucleoporin 155kDa	Nup155	100772556	25.77	26.62	26.92	28.25	31.61	31.90	4302.03	4521.18	4536.10	4748.09	5290.85	5235.08
nucleoporin 160kDa	Nup160	100765104	27.56	27.53	31.11	34.17	37.20	36.06	4612.68	4688.63	5298.74	5741.29	6215.09	6007.12
nucleoporin 205kDa	Nup205	100773309	32.66	31.64	35.54	36.33	36.75	37.87	6531.28	6479.35	7269.93	7449.54	7555.40	7688.59
nucleoporin 210kDa	Nup210	100772108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin 210kDa-like	Nup210l	100765137	0.00	0.01	0.02	0.02	0.02	0.04	0.76	2.75	4.97	8.11	5.17	8.41
nucleoporin 214kDa	Nup214	100752558	24.26	22.98	24.88	24.09	20.88	22.55	4841.30	4672.16	4999.40	4825.74	4205.15	4514.45
nucleoporin 35kDa	Nup35	100757207	26.14	26.21	29.21	29.25	31.75	29.56	1170.45	1190.46	1321.58	1320.01	1413.79	1302.93
nucleoporin 37kDa	Nup37	100771280	46.29	47.28	43.54	51.89	55.38	52.96	1636.05	1684.58	1536.46	1781.26	1953.02	1818.87
nucleoporin 43kDa	Nup43	100758256	44.18	42.40	47.94	46.90	48.73	47.90	1845.68	1787.98	2024.60	1948.14	2035.82	2007.67
nucleoporin 50kDa	Nup50	100759187	15.97	15.51	15.81	16.17	17.05	16.28	2081.14	2045.10	2105.34	2119.66	2202.45	2146.00
nucleoporin 54kDa	Nup54	100770480	41.13	42.63	47.22	50.78	52.16	50.11	2529.27	2648.11	2974.80	3107.06	3217.77	3093.76
nucleoporin 62kDa	Nup62	100769030	64.53	62.93	62.99	52.54	41.24	45.56	4298.99	4200.92	4242.97	3527.75	2720.98	3061.04
nucleoporin 62kDa C-terminal like	Nup62cl	100760998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nucleoporin 85kDa	Nup85	100770676	27.25	26.77	31.90	33.42	33.27	32.39	1715.80	1680.00	1992.31	2079.10	2107.23	2031.04
nucleoporin 88kDa	Nup88	100754367	24.08	24.29	26.04	29.90	31.21	30.76	1462.11	1491.50	1629.62	1806.76	1881.61	1821.67
nucleoporin 93kDa	Nup93	100757790	45.24	45.19	48.50	48.84	47.38	51.37	3610.09	3598.83	3905.12	3819.80	3746.65	4078.90
nucleoporin 98kDa	Nup98	100760516	39.28	39.52	41.57	43.49	46.26	45.79	7005.23	7218.70	7625.17	7932.81	8322.32	8125.08
nucleoporin like 1	Nupl1	100763296	22.05	21.33	23.46	25.42	28.47	28.62	2470.78	2426.67	2659.31	2859.06	3192.93	3210.59
nucleoporin like 2	Nupl2	100763799	3.00	3.07	3.17	3.74	3.40	3.69	302.30	298.30	304.31	366.22	334.30	364.52
nuclear protein, transcriptional regulator, 1	Nupr1	100753781	209.40	190.41	93.71	109.19	148.40	148.46	3129.30	2968.37	1442.06	1541.36	2052.38	2076.84
nuclear protein, transcriptional regulator, 1-like	Nupr1l	100756083	1.19	1.35	0.58	0.89	0.85	1.04	26.58	28.37	18.63	20.86	18.63	25.24
nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cerevisiae)	Nus1	100761477	65.09	70.01	36.13	37.00	37.72	36.73	4196.45	4495.56	2335.12	2389.69	2420.83	2373.13
nucleolar and spindle associated protein 1	Nusap1	100762702	69.73	72.27	55.12	65.96	75.81	68.66	3607.81	3707.72	2869.22	3358.55	3860.50	3499.40
nuclear transport factor 2	Nutf2	100753217	100.49	101.40	97.06	97.83	93.93	92.12	5442.86	5523.14	5349.67	5322.92	5106.62	4993.01
NUT midline carcinoma, family member 1	Nutm1	100771107	0.07	0.00	0.00	0.02	0.03	0.04	12.15	2.75	3.73	3.48	5.17	5.61
nuclear VCP-like	Nvl	100759165	19.90	20.00	31.87	34.09	36.52	37.06	2030.25	2104.58	3330.03	3458.22	3717.67	3817.19

NACHT and WD repeat domain containing 1	Nwd1	100758068	1.14	1.17	0.93	0.94	0.70	0.71	217.23	225.10	182.59	181.95	145.93	139.27
NACHT and WD repeat domain containing 2	Nwd2	100765896	0.01	0.00	0.00	0.00	0.01	0.01	0.76	0.00	0.00	0.00	1.03	0.93
nuclear RNA export factor 1	Nxf1	100753177	33.55	33.37	33.44	33.01	33.17	33.44	2306.72	2286.67	2271.78	2214.70	2201.42	2224.51
nuclear RNA export factor 3	Nxf3	100768937	0.00	0.00	0.00	0.03	0.00	0.00	1.52	0.00	0.00	1.16	1.03	0.00
nucleoredoxin	Nxn	100764280	14.84	14.66	13.12	12.35	11.25	12.82	1020.06	1028.50	931.57	857.60	781.41	878.59
nucleoredoxin-like 1	Nxnl1	100754777	0.25	0.19	0.24	0.28	0.16	0.08	8.35	10.07	11.18	16.22	5.17	2.80
nucleoredoxin-like 2	Nxnl2	100763443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurexophilin and PC-esterase domain family, member 2	Nxpe2	100769133	0.03	0.05	0.05	0.09	0.02	0.02	1.52	6.41	3.73	5.79	5.17	2.80
neurexophilin and PC-esterase domain family, member 3	Nxpe3	100758955	3.54	3.91	4.81	4.87	5.39	5.11	135.96	153.73	180.10	190.06	204.93	200.95
neurexophilin and PC-esterase domain family, member 4	Nxpe4	100768856	2.22	2.52	3.19	3.40	3.78	4.52	202.04	227.84	294.37	317.54	361.21	414.06
neurexophilin 1	Nxph1	100759051	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
neurexophilin 2	Nxph2	100752563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurexophilin 3	Nxph3	100756060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
neurexophilin 4	Nxph4	100762941	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
NTF2-like export factor 1	Nxt1	100763994	38.97	36.38	43.21	44.00	45.84	44.41	865.87	796.99	927.84	902.80	940.80	901.96
neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 1	Nyap1	100751098	3.07	3.31	2.64	2.33	1.70	1.83	283.31	316.60	245.93	219.04	159.39	172.91
neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2	Nyap2	100769806	0.00	0.00	0.05	0.02	0.00	0.02	2.28	0.92	38.50	32.45	31.05	36.45
NYN domain and retroviral integrase containing	Nynrin	100768139	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
nyctalopin	Nyx	100770587	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
OAF homolog (Drosophila)	Oaf	100765087	105.93	103.45	101.40	87.39	61.64	65.84	3531.86	3468.89	3392.14	2854.42	2018.22	2131.98
O-acyl-ADP-ribose deacylase 1	Oard1	100756378	28.86	28.48	34.72	38.01	38.48	37.80	1039.81	1034.90	1274.38	1321.17	1351.69	1317.88
2'-5'-oligoadenylate synthetase 3, 100kDa	Oas3	100769916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2'-5'-oligoadenylate synthetase-like	Oasl	100750489	7.38	8.18	18.80	20.50	32.73	33.76	432.18	479.48	1106.70	1204.12	1945.77	1990.85
ornithine aminotransferase	Oat	100771896	7.29	7.76	2.50	3.36	0.00	0.00	521.80	549.02	175.13	238.74	0.00	0.00
ornithine decarboxylase antizyme 3	Oaz3	100770669	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	1.87
oligonucleotide/oligosaccharide-binding fold containing 1	Obfc1	100757852	22.03	21.85	26.88	28.62	30.43	30.01	1003.35	1036.73	1228.42	1317.69	1438.63	1384.25
obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	Obscn	100763304	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	1.87
obscurin-like 1	Obsl1	100766443	6.11	6.38	6.68	5.58	4.15	4.29	1194.00	1233.47	1325.31	1106.77	794.87	844.94
otoconin 90	Oc90	100754087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oculocutaneous albinism II	Oca2	100758485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
occludin/ELL domain containing 1	Ocel1	100774082	45.98	42.25	51.52	35.58	28.71	29.40	105.58	115.29	147.81	75.33	66.24	73.84
OCIA domain containing 1	Ociad1	100763441	74.34	75.71	80.71	82.59	86.88	85.83	2789.79	2876.87	2971.07	3018.99	3166.02	3179.75
OCIA domain containing 2	Ociad2	100763149	24.93	24.27	21.02	22.54	26.00	27.03	870.43	893.99	783.76	815.88	980.13	971.12
occludin	Ocln	100772862	0.03	0.02	0.00	0.00	0.00	0.02	2.28	1.83	0.00	0.00	0.00	1.87
oncomodulin 2	Ocm2	100768870	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	2.07	0.93
oculocerebrorenal syndrome of Lowe	Ocrl	100774848	11.79	12.71	14.32	14.84	18.03	16.28	1216.02	1337.78	1469.39	1508.91	1837.10	1676.80
osteoclast stimulatory transmembrane protein	Ocstamp	100750965	0.11	0.08	0.03	0.11	0.02	0.00	7.60	3.66	2.48	4.64	1.03	0.93
odontogenic, ameloblast asssociated	Odam	100754868	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ornithine decarboxylase 1	Odc1	100751960	31.56	32.42	29.79	32.36	22.47	23.44	1993.03	2029.54	1874.31	2003.77	1397.23	1463.69
outer dense fiber of sperm tails 1	Odf1	100767282	0.16	0.25	0.07	0.32	0.06	0.21	3.80	7.32	1.24	8.11	1.03	3.74
outer dense fiber of sperm tails 2	Odf2	100764598	20.82	20.65	22.74	24.85	24.05	25.30	2923.47	3000.39	3259.24	3524.28	3474.45	3610.63
outer dense fiber of sperm tails 2-like	Odf2l	100773183	6.17	5.80	4.82	4.74	6.15	5.03	466.36	432.81	345.30	353.47	421.24	369.19
outer dense fiber of sperm tails 3	Odf3	100770509	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	1.16	0.00	0.93
outer dense fiber of sperm tails 3B	Odf3b	100759457	0.03	0.07	0.00	0.04	0.00	0.03	2.28	1.83	0.00	2.32	0.00	1.87
outer dense fiber of sperm tails 3-like 1	Odf3l1	100760080	0.08	0.03	0.04	0.04	0.04	0.00	2.28	2.75	3.73	2.32	2.07	0.00
outer dense fiber of sperm tails 3-like 2	Odf3l2	100761563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
outer dense fiber of sperm tails 4	Odf4	100752383	0.00	0.04	0.00	0.00	0.00	0.00	0.76	0.92	1.24	2.32	0.00	0.00
orofacial cleft 1 candidate 1	Ofcc1	100765237	0.05	0.03	0.05	0.03	0.03	0.01	12.91	10.98	7.45	3.48	2.07	0.93
oral-facial-digital syndrome 1	Ofd1	100766913	12.14	11.85	11.63	15.20	16.51	15.69	1216.02	1192.29	1183.71	1482.26	1566.97	1514.16
oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)	Ogdh	100764862	58.27	57.37	51.68	53.40	53.11	57.69	7227.78	7102.49	6445.19	6556.01	6564.92	7108.16
oxoglutarate dehydrogenase-like	Ogdhl	100769436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-oxoglutarate and iron-dependent oxygenase domain containing 1	Ogfod1	100756149	10.98	11.64	11.07	11.33	12.44	12.71	989.68	1033.07	996.15	1005.94	1134.34	1172.08
2-oxoglutarate and iron-dependent oxygenase domain containing 2	Ogfod2	100772290	10.68	8.86	11.70	6.98	4.42	4.70	374.45	337.65	423.55	254.96	171.81	187.87
2-oxoglutarate and iron-dependent oxygenase domain containing 3	Ogfod3	100772993	47.00	45.87	19.13	19.00	14.44	14.37	1705.17	1696.47	693.08	698.83	492.65	500.05
opioid growth factor receptor	Ogfr	100765720	32.30	33.01	31.81	24.76	18.76	20.60	1753.78	1808.11	1761.28	1365.21	1032.92	1152.45
opioid growth factor receptor-like 1	Ogfrl1	100757269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8-oxoguanine DNA glycosylase	Ogg1	100774353	13.02	14.09	16.36	12.55	11.46	14.83	412.43	426.41	489.38	410.26	389.15	429.95
osteoglycin	Ogn	100755182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
O-linked N-acetylglucosamine (GlcNAc) transferase	Ogt	100768670	15.18	14.47	14.45	17.05	18.05	19.12	2386.47	2256.47	2332.64	2744.32	2891.75	2969.45
Opa interacting protein 5	Oip5	100763649	14.95	13.51	13.66	13.12	15.05	14.16	502.06	498.69	467.02	487.91	545.44	532.76
oncoprotein induced transcript 3	Oit3	100758658	0.12	0.02	0.08	0.02	0.04	0.03	11.39	2.75	6.21	8.11	3.10	3.74
Obg-like ATPase 1	Ola1	100770881	86.97	90.31	88.09	93.59	100.79	102.09	4207.85	4403.14	4233.03	4436.35	4736.10	4740.64
oleoyl-ACP hydrolase	Olah	100755723	0.08	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
olfactomedin 1	Olfm1	100752985	6.89	6.05	8.32	8.72	8.76	8.81	464.84	419.09	563.91	579.46	582.70	605.67
olfactomedin 2	Olfm2	100763865	3.62	3.29	3.91	4.46	3.53	4.55	574.21	516.99	619.80	696.51	558.89	725.30
olfactomedin 3	Olfm3	100763639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactomedin 4	Olfm4	100755691	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactomedin-like 1	Olfml1	100766460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactomedin-like 2A	Olfml2a	100750647	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
olfactomedin-like 2B	Olfml2b	100772466	9.14	9.21	6.49	6.00	4.67	4.73	780.05	793.33	562.67	513.40	398.47	409.39
olfactomedin-like 3	Olfml3	100758953	13.60	13.88	14.57	15.09	12.96	12.96	628.90	638.69	679.42	694.19	599.26	593.52
oligodendrocyte transcription factor 3	Olig3	100772209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxidized low density lipoprotein (lectin-like) receptor 1	Olr1	100771035	0.00	0.00	0.00	0.00	0.00	0.04	0.76	0.92	0.00	0.00	0.00	1.87
OMA1 zinc metallopeptidase	Oma1	100767334	12.69	13.46	12.21	14.96	15.74	16.35	486.11	498.69	443.43	551.65	577.52	595.38
osteomodulin	Omd	100755471	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
oligodendrocyte myelin glycoprotein	Omg	100760649	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
olfactory marker protein	Omp	100766633	0.09	0.07	0.05	0.03	0.14	0.08	8.35	6.41	4.97	2.32	14.49	7.48

one cut homeobox 1	Onecut1	100765766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
one cut homeobox 3	Onecut3	103163964	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oocyte expressed protein	Ooep	100755092	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
optic atrophy 1 (autosomal dominant)	Opa1	100751873	36.63	36.37	36.26	42.34	46.09	43.16	3896.44	3978.57	3903.88	4488.50	4862.37	4578.95
optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia)	Opa3	100762085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oligodendrocytic myelin paranodal and inner loop protein	Opalin	100763742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opioid binding protein/cell adhesion molecule-like	Opcml	100753173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-oxoprolinase (ATP-hydrolysing)	Oplah	100752451	7.46	7.23	6.45	4.98	2.91	3.65	1013.23	952.55	824.75	653.63	385.01	486.03
opsin 1 (cone pigments), long-wave-sensitive	Opn1lw	100768262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
opsin 1 (cone pigments), short-wave-sensitive	Opn1sw	100751225	0.10	0.07	0.02	0.07	0.08	0.04	5.32	6.41	2.48	5.79	4.14	3.74
opsin 3	Opn3	100751835	0.11	0.40	0.51	0.46	0.79	0.45	3.80	14.64	26.08	20.86	39.33	22.43
opsin 4	Opn4	100752076	0.50	0.48	0.14	0.11	0.33	0.35	40.26	39.35	12.42	11.59	28.98	32.71
opsin 5	Opn5	100769781	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opioid receptor, delta 1	Oprd1	100762884	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opioid receptor, kappa 1	Oprk1	100753654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opiate receptor-like 1	Oprl1	100766638	0.06	0.04	0.00	0.02	0.06	0.05	6.84	3.66	4.97	1.16	8.28	4.67
opioid receptor, mu 1	Oprm1	100770962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
opticin	Optc	100765351	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
optineurin	Optn	100773283	19.14	19.80	23.65	27.58	31.72	31.63	2178.36	2255.56	2691.60	3068.82	3548.97	3563.90
ORAI calcium release-activated calcium modulator 1	Orai1	100752394	7.37	7.37	6.99	5.90	3.56	4.16	219.51	229.67	208.67	176.16	107.64	127.12
ORAI calcium release-activated calcium modulator 2	Orai2	100758553	0.23	0.18	0.31	0.47	0.10	0.24	5.32	4.58	11.18	11.59	4.14	6.54
ORAI calcium release-activated calcium modulator 3	Orai3	100753665	12.29	12.47	12.96	12.86	8.99	11.41	586.36	588.37	614.83	602.64	423.31	541.17
oral cancer overexpressed 1	Oraov1	100758599	12.02	12.91	13.62	14.21	14.04	12.82	919.04	945.23	961.38	952.63	969.78	981.40
origin recognition complex, subunit 1	Orc1	100689425	21.00	21.62	24.22	25.08	27.98	25.80	1818.34	1894.12	2136.39	2200.79	2418.76	2230.12
origin recognition complex, subunit 2	Orc2	100689333	28.23	28.72	24.61	27.78	29.37	29.65	2374.32	2409.28	2104.10	2286.55	2435.32	2486.22
origin recognition complex, subunit 3	Orc3	100768718	14.84	16.75	16.04	17.13	20.24	18.33	1143.11	1308.50	1242.09	1287.56	1575.25	1398.27
origin recognition complex, subunit 4	Orc4	100689043	29.55	28.13	29.25	33.78	35.44	34.13	1519.08	1463.14	1501.68	1649.14	1736.71	1633.80
origin recognition complex, subunit 5	Orc5	100689042	26.35	28.40	29.14	30.97	36.14	36.05	1681.62	1831.90	1900.39	1972.48	2321.47	2289.94
origin recognition complex, subunit 6	Orc6	100766154	19.63	18.88	18.20	18.16	20.23	20.78	599.28	593.86	577.57	555.12	632.38	629.97
orosomucoid 1	Orm1	100774880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
ORM1-like 1 (S. cerevisiae)	Ormdl1	103158540	32.76	33.08	34.80	38.11	38.57	37.40	1459.07	1445.75	1574.97	1697.82	1755.34	1675.86
ORM1-like 2 (S. cerevisiae)	Ormdl2	100771596	52.91	49.39	49.60	53.04	79.10	80.80	1520.60	1438.43	1434.61	1501.96	2213.84	2267.51
ORM1-like 3 (S. cerevisiae)	Ormdl3	100772138	52.35	48.31	51.26	45.64	37.06	40.22	3117.15	2870.46	3058.02	2714.19	2197.28	2401.17
osteosarcoma amplified 9, endoplasmic reticulum lectin	Os9	100758962	50.54	50.32	58.47	56.74	49.50	51.94	3861.50	3820.26	4474.00	4250.92	3771.49	3944.31
oxysterol binding protein	Osbp	100760367	37.89	37.55	39.42	41.02	45.39	44.66	4193.42	4210.98	4431.77	4585.85	5041.42	4991.14
oxysterol binding protein 2	Osbp2	100760907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxysterol binding protein-like 10	Osbpl10	100751799	3.06	3.16	1.52	1.79	1.80	1.77	287.87	287.32	150.29	168.04	169.74	168.24

oxysterol binding protein-like 11	Osbpl11	100755618	14.43	13.85	16.07	16.26	16.54	17.81	1383.88	1348.76	1574.97	1551.79	1605.26	1711.38
oxysterol binding protein-like 1A	Osbpl1a	100754425	0.00	0.00	0.00	0.02	0.01	0.01	0.76	0.00	0.00	2.32	1.03	0.93
oxysterol binding protein-like 2	Osbpl2	100754515	43.40	42.69	42.66	45.40	49.80	52.03	3651.11	3565.89	3547.40	3739.83	4121.32	4298.55
oxysterol binding protein-like 3	Osbpl3	100757392	18.73	17.81	23.76	24.27	25.23	25.12	2313.56	2173.20	2932.57	2950.61	3059.42	3012.44
oxysterol binding protein-like 5	Osbpl5	100774018	9.66	9.64	8.58	7.27	6.09	6.19	1102.85	1108.11	973.80	810.08	685.16	697.26
oxysterol binding protein-like 6	Osbpl6	100765045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxysterol binding protein-like 7	Osbpl7	100754782	6.15	6.23	4.81	4.19	3.19	3.54	681.31	708.24	536.58	464.73	358.11	397.23
oxysterol binding protein-like 8	Osbpl8	100764969	9.04	9.03	8.69	10.93	10.97	10.95	1805.42	1805.36	1736.44	2167.18	2180.72	2198.34
oxysterol binding protein-like 9	Osbpl9	100751414	18.10	18.52	15.76	17.26	20.05	19.48	1579.84	1606.80	1370.02	1478.78	1707.73	1671.19
osteoclast associated, immunoglobulin-like receptor	Oscar	100764692	0.00	0.00	0.09	0.18	0.08	0.00	0.00	0.92	1.24	2.32	1.03	0.00
organic solute carrier partner 1	Oscp1	100759602	12.41	13.27	19.64	20.55	21.57	23.07	536.23	579.22	852.07	866.87	937.70	966.45
oxidative stress responsive serine-rich 1	Oser1	100771514	62.82	60.99	74.07	68.77	72.18	77.13	2554.33	2512.68	3041.87	2820.81	2905.21	3096.56
O-sialoglycoprotein endopeptidase	Osgep	100754538	26.03	24.97	28.75	28.08	25.74	27.93	1039.05	1011.11	1143.96	1116.04	1044.30	1130.95
oxidative stress induced growth inhibitor 1	Osgin1	100750726	2.32	2.60	2.09	1.75	1.22	1.25	131.40	143.66	119.24	104.30	70.38	71.97
oxidative stress induced growth inhibitor family member 2	Osgin2	100752524	3.83	4.19	3.93	3.84	4.23	4.14	245.33	276.34	262.08	243.37	282.55	273.86
oncostatin M	Osm	100758591	0.41	0.11	0.00	0.07	0.19	0.06	8.35	3.66	0.00	2.32	4.14	1.87
oncostatin M receptor	Osmr	100772447	5.91	5.95	5.47	6.63	7.31	6.22	824.86	843.66	776.30	930.61	1000.83	868.31
odd-skipped related transciption factor 1	Osr1	100752131	0.03	0.00	0.06	0.00	0.00	0.04	0.76	0.00	6.21	1.16	1.03	3.74
oligosaccharyltransferase 4 homolog (S. cerevisiae)	Ost4	100762772	181.61	178.90	174.65	166.99	172.72	165.77	707.89	639.61	520.43	369.70	293.94	316.85
oligosaccharyltransferase complex subunit (non-catalytic)	Ostc	100753091	110.37	102.56	117.27	112.82	116.11	116.86	2418.37	2406.54	2753.71	2689.85	2792.39	2671.29
osteoclast stimulating factor 1	Ostf1	100751605	98.57	101.14	84.13	91.25	94.29	91.13	3435.40	3547.58	2941.26	3154.58	3249.86	3091.89
osteopetrosis associated transmembrane protein 1	Ostm1	100769449	16.33	16.75	19.81	20.32	21.32	20.95	1392.99	1407.32	1702.90	1726.79	1798.81	1781.48
osteocrin	Ostn	100771159	0.17	0.19	0.02	0.02	0.00	0.00	11.39	10.98	1.24	1.16	0.00	0.00
ornithine carbamoyltransferase	Otc	100761890	0.09	0.14	0.14	0.23	0.24	0.22	3.04	7.32	7.45	8.11	7.24	7.48
otoancorin	Otoa	100760060	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
otoferlin	Otof	100759573	0.00	0.02	0.01	0.01	0.02	0.02	0.00	2.75	2.48	3.48	4.14	3.74
otogelin	Otog	100763808	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	1.03	0.00
otogelin-like	Otogl	100773848	1.46	1.32	0.98	2.01	1.93	1.42	167.10	169.28	136.63	220.19	244.26	184.13
otolin 1	Otol1	100755856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
otopetrin 1	Otop1	100773956	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.03	0.00
otopetrin 2	Otop2	100772403	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
otopetrin 3	Otop3	100758515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
otoraplin	Otor	100771415	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	1.87
otospiralin	Otos	100770042	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
orthopedia homeobox	Otp	100760966	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTU deubiquitinase, ubiquitin aldehyde binding 1	Otub1	100758975	38.88	38.76	39.52	39.72	25.00	29.85	1092.22	1101.70	1158.87	1114.88	746.23	893.54
OTU deubiquitinase, ubiquitin aldehyde binding 2	Otub2	100764676	10.65	10.20	10.86	10.22	10.59	10.41	967.65	937.91	993.67	930.61	947.01	949.62
OTU deubiquitinase 1	Otud1	100756131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OTU deubiquitinase 3	Otud3	100756165	8.05	7.77	9.73	9.83	9.56	9.35	1320.84	1281.05	1602.29	1606.26	1574.21	1541.27
OTU deubiquitinase 4	Otud4	100771576	23.15	23.84	27.50	31.49	28.20	26.19	4705.35	4866.15	5651.50	6396.08	5708.98	5343.51
OTU deubiquitinase 5	Otud5	100761947	26.74	27.98	28.04	25.93	25.14	24.96	1682.38	1775.17	1767.49	1636.39	1541.09	1565.57
OTU deubiquitinase 6A	Otud6a	100768651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTU domain containing 6B	Otud6b	100768059	19.42	20.23	21.69	23.07	22.54	22.64	1741.62	1827.32	1961.26	2080.26	2017.19	2050.67
OTU deubiquitinase 7A	Otud7a	100763787	0.37	0.40	0.51	0.29	0.11	0.23	28.10	32.94	32.29	15.07	9.31	24.30
OTU deubiquitinase 7B	Otud7b	100760086	20.62	20.45	22.87	24.04	23.82	25.41	3364.76	3365.49	3749.86	3912.51	3853.25	4120.02
OTU deubiquitinase with linear linkage specificity	Otulin	100772832	10.87	10.27	10.33	10.96	10.82	10.25	1178.05	1110.85	1114.15	1177.46	1146.76	1102.91
orthodenticle homeobox 1	Otx1	100764947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
orthodenticle homeobox 2	Otx2	100766419	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ovarian tumor suppressor candidate 2	Ovca2	103161266	85.78	83.77	90.80	82.19	65.69	70.41	2151.77	2091.77	2275.50	2061.72	1657.01	1784.28
ovochymase 2	Ovch2	100766258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oviductal glycoprotein 1, 120kDa	Ovgp1	100773377	0.03	0.02	0.02	0.02	0.04	0.05	1.52	0.92	1.24	1.16	2.07	3.74
ovo-like zinc finger 1	Ovol1	100760732	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.92	1.24	1.16	2.07	0.93
ovo-like zinc finger 2	Ovol2	100772317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-oxoacid CoA transferase 1	Oxct1	100766113	23.00	24.45	26.79	30.56	36.87	34.05	1696.05	1852.03	2019.63	2325.95	2735.47	2483.42
oxoglutarate (alpha-ketoglutarate) receptor 1	Oxgr1	100761985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
oxidoreductase-like domain containing 1	Oxld1	100755436	90.09	86.65	63.86	48.15	28.29	30.42	1380.84	1310.33	946.47	695.35	408.82	454.25
oxidoreductase NAD-binding domain containing 1	Oxnad1	100768576	9.51	9.89	12.41	12.11	12.34	12.51	488.38	505.10	628.50	615.39	620.99	655.20
oxidation resistance 1	Oxr1	100766884	12.92	12.48	8.75	10.14	9.94	9.54	1768.21	1745.88	1156.38	1326.96	1290.63	1273.95
3-oxoacyl-ACP synthase, mitochondrial	Oxsm	100769182	6.57	6.91	5.74	5.82	5.44	5.67	520.28	555.43	494.35	469.36	432.62	458.92
oxidative stress responsive 1	Oxsr1	100774777	101.19	105.89	101.60	108.07	118.39	119.74	11989.33	12599.10	12243.25	12910.37	14092.37	14206.04
oxytocin receptor	Oxtr	100774839	0.00	0.00	0.04	0.04	0.04	0.03	0.00	0.00	1.24	1.16	1.03	0.93
purinergic receptor P2X, ligand-gated ion channel, 1	P2rx1	100756069	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
purinergic receptor P2X, ligand-gated ion channel, 2	P2rx2	100770815	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	1.16	0.00	1.87
purinergic receptor P2X, ligand-gated ion channel, 3	P2rx3	100758483	4.34	4.30	3.10	3.35	3.39	3.36	578.01	590.20	423.55	457.77	474.02	459.86
purinergic receptor P2X, ligand-gated ion channel, 4	P2rx4	100752103	4.73	4.97	5.23	5.21	5.31	5.51	210.39	215.03	227.30	225.99	240.12	253.30
purinergic receptor P2X, ligand-gated ion channel, 5	P2rx5	100772284	1.37	1.07	0.95	0.91	0.87	1.23	99.50	83.27	81.98	73.01	71.41	92.53
purinergic receptor P2X, ligand-gated ion channel, 6	P2rx6	100757216	0.60	0.78	0.97	1.10	0.49	0.70	43.29	47.58	69.56	66.06	30.01	44.86
purinergic receptor P2X, ligand-gated ion channel, 7	P2rx7	100765617	1.22	1.65	1.13	1.75	1.85	1.88	125.32	149.15	131.66	144.86	188.37	164.50
purinergic receptor P2Y, G-protein coupled, 1	P2ry1	100771693	2.32	2.31	2.71	3.07	2.63	3.08	107.85	108.89	136.63	139.07	134.55	145.81
purinergic receptor P2Y, G-protein coupled, 12	P2ry12	103163423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
purinergic receptor P2Y, G-protein coupled, 13	P2ry13	100769767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
purinergic receptor P2Y, G-protein coupled, 2	P2ry2	100689189	11.50	10.38	8.62	8.67	6.79	6.86	739.79	667.06	560.18	558.60	430.55	443.03

pyrimidinergic receptor P2Y, G-protein coupled, 4	P2ry4	100769419	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyrimidinergic receptor P2Y, G-protein coupled, 6	P2ry6	100752781	0.00	0.00	0.00	0.03	0.05	0.04	0.76	0.00	0.00	2.32	2.07	1.87
prolyl 4-hydroxylase, alpha polypeptide I	P4ha1	100757890	37.79	38.46	37.42	41.24	39.60	38.59	2780.67	2837.52	2786.00	3023.62	2887.61	2835.79
prolyl 4-hydroxylase, alpha polypeptide II	P4ha2	100760683	9.46	7.95	7.36	7.15	5.72	6.71	661.56	568.24	504.29	491.38	402.61	495.37
prolyl 4-hydroxylase, alpha polypeptide III	P4ha3	100766769	15.27	14.84	13.64	12.73	11.93	12.94	891.70	898.56	794.94	754.46	727.60	781.38
prolyl 4-hydroxylase, beta polypeptide	P4hb	100689433	432.35	439.32	328.31	317.04	305.75	310.27	28342.21	29165.78	21783.72	20792.18	19957.64	20102.88
prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)	P4htm	100765582	5.88	5.57	5.88	5.57	2.89	3.75	277.23	266.27	263.32	253.80	144.90	181.33
proliferation-associated 2G4, 38kDa	Pa2g4	100767388	323.37	338.23	334.14	326.07	284.43	294.28	19331.03	20674.27	20505.61	19790.87	17597.87	17689.56
poly(A) binding protein, cytoplasmic 1	Pabpc1	100757538	143.62	141.17	165.43	171.56	154.72	151.24	9201.82	9168.64	10786.28	11042.19	9875.84	9654.20
poly(A) binding protein, cytoplasmic 1-like	Pabpc1l	100762044	0.06	0.04	0.00	0.04	0.07	0.05	5.32	6.41	0.00	4.64	4.14	2.80
poly(A) binding protein, cytoplasmic 4 (inducible form)	Pabpc4	100751578	97.31	100.83	125.18	122.75	110.75	112.17	6887.50	7189.42	8867.26	8465.91	7471.57	7558.67
poly(A) binding protein, cytoplasmic 4-like	Pabpc4l	100754173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) binding protein, cytoplasmic 5	Pabpc5	100766161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) binding protein, nuclear 1-like (cytoplasmic)	Pabpn1l	100765187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
PARK2 co-regulated	Pacrg	100751258	2.72	2.43	2.41	2.69	3.51	3.96	86.59	82.35	84.46	86.92	116.95	135.53
PARK2 co-regulated-like	Pacrgl	100755632	6.38	7.24	0.00	0.00	0.00	0.00	115.45	122.61	0.00	0.00	0.00	0.00
phosphofurin acidic cluster sorting protein 1	Pacs1	100768741	11.32	11.17	14.76	16.11	14.15	16.33	1037.53	1036.73	1387.41	1483.42	1284.42	1450.61
phosphofurin acidic cluster sorting protein 2	Pacs2	100753901	13.35	12.41	13.68	12.75	9.14	9.44	1536.55	1472.29	1610.99	1461.40	1038.09	1128.15
protein kinase C and casein kinase substrate in neurons 1	Pacsin1	100759729	0.16	0.30	0.32	0.15	0.11	0.05	7.60	13.73	18.63	5.79	6.21	1.87
protein kinase C and casein kinase substrate in neurons 2	Pacsin2	100767688	42.29	42.90	41.98	43.38	38.45	38.78	3384.51	3435.04	3410.77	3495.30	3101.85	3143.29
protein kinase C and casein kinase substrate in neurons 3	Pacsin3	100756115	16.63	15.32	12.97	11.55	7.83	9.93	877.27	828.11	712.96	626.98	420.20	539.30
peptidyl arginine deiminase, type I	Padi1	100756607	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl arginine deiminase, type II	Padi2	100771538	0.01	0.00	0.00	0.00	0.02	0.00	0.76	0.00	0.00	1.16	1.03	0.00
peptidyl arginine deiminase, type III	Padi3	100756898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidyl arginine deiminase, type VI	Padi6	100770781	0.00	0.02	0.00	0.00	0.00	0.00	0.76	4.58	0.00	1.16	1.03	1.87
Paf1, RNA polymerase II associated factor, homolog (S. cerevisiae)	Paf1	100772353	31.86	32.48	36.19	36.52	34.55	34.82	1604.15	1642.49	1878.04	1860.07	1766.72	1719.79
platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)	Pafah1b1	100764774	47.27	47.28	46.75	52.14	54.94	50.06	2279.38	2345.23	2314.01	2531.08	2626.80	2397.43
platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)	Pafah1b3	100756174	43.84	45.28	44.19	32.76	22.32	23.57	1148.42	1173.07	1152.66	849.49	594.08	659.88
platelet-activating factor acetylhydrolase 2, 40kDa	Pafah2	100770286	6.64	7.09	7.14	5.92	6.74	6.81	375.21	402.61	388.77	317.54	366.39	372.00

phosphoprotein associated with glycosphingolipid microdomains 1	Pag1	100767029	0.27	0.31	0.42	0.70	0.58	0.58	30.38	33.86	50.93	79.97	70.38	74.77
PAXIP1 associated glutamate-rich protein 1	Pagr1	100751387	37.17	35.10	38.74	33.24	23.79	24.77	1353.50	1283.79	1409.77	1182.10	863.18	888.87
phenylalanine hydroxylase	Pah	100774376	0.06	0.12	0.00	0.00	0.00	0.02	3.80	7.32	0.00	0.00	1.03	0.93
phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	Paics	100758991	156.20	156.75	160.52	173.49	180.21	179.18	7575.64	7460.27	7713.36	8157.64	8424.79	8398.01
poly(A) binding protein interacting protein 1	Paip1	100764567	26.47	29.32	36.14	37.99	41.53	39.80	1784.16	1970.07	2419.59	2525.29	2758.24	2652.59
poly(A) binding protein interacting protein 2	Paip2	100755774	81.65	88.97	92.39	99.66	103.81	100.39	1937.58	2019.48	2127.69	2211.22	2300.77	2329.20
poly(A) binding protein interacting protein 2B	Paip2b	100756683	25.37	27.07	25.94	29.22	32.41	33.39	2324.95	2418.43	2552.49	2657.40	2909.35	3228.35
p21 protein (Cdc42/Rac)-activated kinase 1	Pak1	100767503	39.34	41.28	49.58	53.43	63.11	63.28	1821.38	1925.23	2273.02	2473.14	2914.52	2907.76
PAK1 interacting protein 1	Pak1ip1	100763693	42.24	43.01	44.91	46.02	47.50	42.96	1847.96	1899.61	1964.98	2014.20	2063.76	1888.97
p21 protein (Cdc42/Rac)-activated kinase 2	Pak2	100751503	50.57	51.20	47.94	51.68	56.24	53.41	6001.88	6165.50	5806.76	6167.77	6661.17	6329.58
p21 protein (Cdc42/Rac)-activated kinase 3	Pak3	100774215	5.14	4.51	5.62	6.22	7.44	7.38	367.62	328.50	409.89	457.77	528.88	524.35
p21 protein (Cdc42/Rac)-activated kinase 4	Pak4	100760399	11.65	11.57	8.88	6.08	4.40	4.26	895.50	904.97	689.36	482.11	332.23	332.74
p21 protein (Cdc42/Rac)-activated kinase 6	Pak6	100758984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
p21 protein (Cdc42/Rac)-activated kinase 7	Pak7	100770198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
partner and localizer of BRCA2	Palb2	100773675	5.82	6.12	6.05	7.40	8.57	7.71	629.66	667.06	684.39	795.02	951.15	875.79
phosphatase domain containing, paladin 1	Pald1	100762022	0.01	0.02	0.00	0.02	0.02	0.03	1.52	2.75	0.00	2.32	2.07	2.80
palladin, cytoskeletal associated protein	Palld	100762600	10.17	10.27	6.73	6.95	6.02	5.39	1699.09	1746.80	1156.38	1173.99	1001.87	910.37
paralemmin	Palm	100751852	24.01	23.77	28.66	21.44	16.25	17.26	1824.41	1815.43	2193.53	1610.90	1238.88	1325.36
paralemmin 3	Palm3	100768138	0.03	0.02	0.02	0.02	0.02	0.06	1.52	0.92	2.48	1.16	1.03	3.74
palmdelphin	Palmd	100762488	0.00	0.00	0.03	0.03	0.02	0.04	0.00	0.00	2.48	1.16	1.03	1.87
peptidylglycine alpha-amidating monooxygenase	Pam	100770162	95.60	94.34	122.31	124.65	130.52	137.00	9241.31	9187.85	11968.75	11978.60	12521.26	13042.38
presequence translocase-asssociated motor 16 homolog (S. cerevisiae)	Pam16	100689177	81.52	81.35	83.49	61.06	58.94	57.99	2346.98	2317.78	2440.70	1941.19	1729.46	1817.93
peptidase domain containing associated with muscle regeneration 1	Pamr1	100752800	0.04	0.02	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
PAN2 poly(A) specific ribonuclease subunit	Pan2	100765354	19.18	18.59	19.99	21.56	21.43	22.63	2646.23	2589.54	2799.66	2992.33	2931.08	3077.87
PAN3 poly(A) specific ribonuclease subunit	Pan3	100757082	4.33	4.14	4.04	4.88	5.27	4.77	679.03	635.03	635.95	771.84	808.32	723.43
pantothenate kinase 1	Pank1	100768798	0.89	1.00	0.91	0.91	1.01	0.92	158.74	178.43	166.44	163.41	175.95	163.57
pantothenate kinase 2	Pank2	100773397	20.73	22.96	23.24	25.64	25.49	25.93	863.60	974.51	993.67	1074.32	1071.21	1077.67
pantothenate kinase 3	Pank3	100767141	6.55	7.64	7.98	8.03	8.10	8.23	549.15	618.56	647.13	666.38	665.50	663.62
pantothenate kinase 4	Pank4	100768771	10.09	9.47	11.00	9.83	9.02	8.49	810.43	774.12	888.09	754.46	716.21	672.03

pannexin 1	Panx1	100751752	19.72	19.38	24.09	24.68	24.13	23.06	1113.48	1089.80	1363.81	1374.48	1347.55	1289.84
pannexin 2	Panx2	100758021	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	0.00	1.16	1.03	0.00
pannexin 3	Panx3	100754757	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polyamine oxidase (exo-N4-amino)	Paox	100754371	60.04	55.62	65.98	65.23	60.99	66.98	2620.41	2434.90	2890.34	2808.06	2623.69	2865.70
PAP associated domain containing 4	Papd4	100760805	14.30	15.49	19.06	21.46	22.86	21.05	1446.92	1542.75	1906.60	2110.39	2260.41	2087.12
PAP associated domain containing 5	Papd5	100759123	23.26	23.39	21.13	21.64	22.16	22.91	2653.83	2700.26	2435.73	2502.11	2548.14	2647.92
PAP associated domain containing 7	Papd7	100760867	14.22	14.37	11.36	11.80	9.99	10.55	1523.64	1521.70	1232.15	1257.43	1061.90	1133.75
papilin, proteoglycan-like sulfated glycoprotein	Papln	100770835	0.03	0.01	0.00	0.00	0.01	0.01	5.32	2.75	1.24	1.16	1.03	1.87
poly(A) polymerase alpha	Papola	100760982	67.80	68.04	52.19	58.52	62.63	60.82	4919.54	4943.93	3792.09	4174.43	4507.37	4402.29
poly(A) polymerase beta (testis specific)	Papolb	100760363	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A) polymerase gamma	Papolg	100760680	10.27	10.13	8.71	9.40	10.72	10.81	1082.34	1073.33	921.63	990.88	1110.54	1124.41
pregnancy-associated plasma protein A, pappalysin 1	Pappa	100764393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pappalysin 2	Pappa2	100753799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3'-phosphoadenosine 5'-phosphosulfate synthase 1	Papss1	100762413	87.74	83.42	105.35	107.65	107.25	114.68	1845.68	1840.13	2222.09	2245.99	2276.97	2403.97
3'-phosphoadenosine 5'-phosphosulfate synthase 2	Papss2	100764888	0.01	0.02	0.01	0.00	0.01	0.00	0.76	2.75	2.48	2.32	1.03	0.93
progestin and adipoQ receptor family member III	Paqr3	100770372	16.61	14.64	19.06	20.36	18.56	18.23	982.84	964.45	1129.06	1172.83	1223.35	1200.12
progestin and adipoQ receptor family member IV	Paqr4	100771540	5.39	4.87	4.36	4.30	4.81	5.60	226.34	212.29	185.07	171.52	193.54	228.99
progestin and adipoQ receptor family member V	Paqr5	100754586	0.11	0.09	0.06	0.06	0.03	0.14	5.32	3.66	2.48	3.48	1.03	5.61
progestin and adipoQ receptor family member VI	Paqr6	100756145	0.02	0.00	0.05	0.00	0.04	0.03	1.52	1.83	1.24	2.32	1.03	1.87
progestin and adipoQ receptor family member VII	Paqr7	100762071	3.63	3.43	3.95	3.57	2.67	3.18	214.19	204.97	234.75	207.45	158.35	189.74
progestin and adipoQ receptor family member VIII	Paqr8	100774609	1.61	1.99	0.91	0.98	1.23	1.24	167.10	205.88	96.88	99.67	124.20	130.85
progestin and adipoQ receptor family member IX	Paqr9	100766837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
par-3 family cell polarity regulator	Pard3	100765823	19.78	20.62	21.72	23.47	21.27	21.63	2748.77	2893.34	3061.74	3224.12	2984.90	2981.60
par-3 family cell polarity regulator beta	Pard3b	100770975	7.80	7.74	11.81	12.33	11.70	11.79	668.39	670.72	987.46	1027.96	982.20	998.23
par-6 family cell polarity regulator alpha	Pard6a	100763804	5.09	4.50	6.17	5.06	3.27	4.16	161.78	147.32	203.70	157.61	106.60	134.59
par-6 family cell polarity regulator beta	Pard6b	100761364	10.20	10.46	13.04	13.98	13.05	13.50	503.57	526.14	669.48	728.96	687.23	711.28
par-6 family cell polarity regulator gamma	Pard6g	100760287	0.05	0.06	0.04	0.04	0.00	0.03	3.04	1.83	1.24	1.16	2.07	0.93
poly (ADP-ribose) glycohydrolase	Parg	100769150	17.43	18.00	18.08	20.85	22.58	21.60	1851.76	1920.66	1967.47	2223.97	2375.29	2278.72
parkin RBR E3 ubiquitin protein ligase	Park2	100764359	4.05	2.92	4.38	5.03	3.97	5.27	263.56	205.88	296.86	336.09	265.99	345.83
parkinson protein 7	Park7	100759195	432.33	395.29	433.77	403.20	341.43	387.43	8959.52	8614.13	9501.96	8851.83	7979.74	8520.45
presenilin associated, rhomboid-like	Parl	100751882	56.05	56.07	67.96	64.05	67.63	66.57	1734.79	1698.30	2063.11	1919.17	2033.75	2001.13
prostate androgen-regulated mucin-like protein 1	Parm1	100758612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poly(A)-specific ribonuclease	Parn	100771839	34.24	35.03	41.09	42.60	47.22	48.08	2969.04	3064.45	3548.64	3619.31	3992.98	4062.07

poly (ADP-ribose) polymerase 1	Parp1	100689463	49.11	51.30	52.54	54.69	46.54	47.21	4646.86	4903.66	5057.78	5149.08	4364.54	4420.99
poly (ADP-ribose) polymerase family, member 10	Parp10	100757141	0.86	0.94	0.56	0.50	0.23	0.28	88.11	103.40	59.62	54.47	25.87	33.65
poly (ADP-ribose) polymerase family, member 11	Parp11	100771250	8.93	9.02	10.38	10.57	12.12	11.61	988.16	990.07	1148.93	1153.13	1315.47	1263.67
poly (ADP-ribose) polymerase family, member 12	Parp12	100772935	3.47	3.63	5.01	5.35	5.86	5.68	267.36	286.41	408.65	417.21	457.46	438.36
poly (ADP-ribose) polymerase family, member 14	Parp14	100758989	4.12	4.15	6.57	7.40	8.53	7.60	759.54	773.20	1232.15	1391.86	1611.47	1436.59
poly (ADP-ribose) polymerase family, member 15	Parp15	100770244	0.03	0.01	0.03	0.02	0.10	0.04	1.52	0.00	0.00	0.00	0.00	0.00
poly (ADP-ribose) polymerase family, member 16	Parp16	100753348	12.96	12.06	12.67	14.27	14.22	12.79	782.33	781.44	816.05	906.28	892.16	828.12
poly (ADP-ribose) polymerase 2	Parp2	100753655	17.25	18.49	18.31	17.35	19.91	19.77	969.93	1026.67	1021.00	939.88	1129.17	1101.04
poly (ADP-ribose) polymerase family, member 3	Parp3	100764843	27.18	28.18	21.71	20.30	18.41	19.37	1984.68	2064.32	1593.60	1476.46	1343.41	1416.96
poly (ADP-ribose) polymerase family, member 4	Parp4	100765231	3.64	4.06	3.47	3.97	5.11	4.52	666.88	745.75	648.37	737.07	930.45	838.40
poly (ADP-ribose) polymerase family, member 6	Parp6	100750845	8.03	7.63	9.14	9.90	9.68	9.76	711.69	651.50	777.55	839.06	823.85	848.68
poly (ADP-ribose) polymerase family, member 8	Parp8	100752502	8.18	7.88	8.57	9.71	11.09	9.46	761.06	744.84	819.78	915.55	1047.41	855.22
poly (ADP-ribose) polymerase family, member 9	Parp9	100767712	2.86	3.09	3.28	3.75	4.76	4.43	76.71	82.35	89.43	101.98	123.16	114.96
PARP1 binding protein	Parpbp	100770705	6.39	6.99	6.27	6.84	6.88	6.75	449.65	505.10	452.12	490.22	489.55	474.81
prolyl-tRNA synthetase 2, mitochondrial (putative)	Pars2	100751506	9.33	8.68	11.65	12.45	9.93	11.63	533.20	495.95	673.21	711.58	563.03	665.48
parvin, alpha	Parva	100763027	46.59	47.09	51.39	56.35	64.64	67.46	5651.73	5782.10	6347.06	6879.35	7862.79	8189.58
parvin, beta	Parvb	100753582	31.64	30.51	32.22	33.20	32.72	33.88	1206.15	1168.50	1285.56	1279.45	1267.86	1282.37
parvin, gamma	Parvg	100753282	0.03	0.00	0.04	0.00	0.00	0.07	0.76	0.92	1.24	0.00	1.03	1.87
PAS domain containing serine/threonine kinase	Pask	100771865	4.14	4.47	4.72	5.00	5.13	5.63	564.34	603.01	653.34	683.76	696.55	771.10
prostate and testis expressed 1	Pate1	100762913	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
prostate and testis expressed 3	Pate3	100760292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostate and testis expressed 4	Pate4	100761740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein associated with topoisomerase II homolog 1 (yeast)	Patl1	100752804	21.12	20.53	22.44	23.49	21.80	23.37	2167.72	2158.56	2343.82	2431.41	2313.19	2452.57
protein associated with topoisomerase II homolog 2 (yeast)	Patl2	100765111	0.00	0.07	0.00	0.00	0.00	0.02	0.00	2.75	0.00	0.00	0.00	0.93
POZ (BTB) and AT hook containing zinc finger 1	Patz1	100763609	5.96	5.70	6.68	5.57	4.87	5.43	622.06	585.62	693.08	571.35	476.09	548.65
PRKC, apoptosis, WT1, regulator	Pawr	100754431	20.89	20.53	26.29	27.78	32.37	31.10	2337.86	2285.75	2964.86	3089.68	3585.19	3461.08
paired box 1	Pax1	100769445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired box 2	Pax2	100755215	0.03	0.02	0.00	0.05	0.00	0.00	3.04	5.49	1.24	4.64	2.07	2.80
paired box 4	Pax4	100759964	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
paired box 5	Pax5	100752440	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
paired box 6	Pax6	100766953	0.02	0.03	0.00	0.00	0.00	0.00	2.28	0.92	0.00	1.16	4.14	0.00
paired box 7	Pax7	100770175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired box 8	Pax8	100758326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired box 9	Pax9	100756379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PAX3 and PAX7 binding protein 1	Paxbp1	100767420	13.09	12.11	12.30	14.80	15.40	14.48	1492.49	1407.32	1425.92	1738.38	1813.30	1666.52
PAX interacting (with transcription-activation domain) protein 1	Paxip1	100774278	6.02	6.10	7.18	6.11	5.90	5.42	611.43	628.63	735.32	639.72	626.17	566.41
polysaccharide biosynthesis domain containing 1	Pbdc1	100763510	51.88	52.26	46.59	49.29	51.49	51.85	1433.25	1447.58	1290.53	1304.94	1391.02	1371.16
PDZ binding kinase	Pbk	100755573	21.34	21.52	22.58	23.18	27.49	28.11	1143.11	1154.77	1201.10	1215.71	1439.67	1485.19
polybromo 1	Pbrm1	100763050	20.46	20.06	20.34	23.38	24.79	24.12	3401.98	3428.63	3433.13	3920.63	4119.25	4033.10
pre-B-cell leukemia homeobox 1	Pbx1	100772263	14.66	13.91	23.88	25.92	26.95	27.20	2682.69	2572.16	4445.43	4764.32	4948.27	5005.16
pre-B-cell leukemia homeobox 2	Pbx2	100766527	8.84	8.70	10.42	9.63	7.84	7.43	593.20	587.45	705.51	653.63	528.88	513.13
pre-B-cell leukemia homeobox 3	Pbx3	100758595	13.04	12.79	19.75	19.81	24.02	21.50	932.71	939.74	1439.58	1418.52	1688.06	1538.47
pre-B-cell leukemia homeobox 4	Pbx4	100754492	4.25	4.02	4.20	2.76	2.50	2.31	173.93	171.11	177.62	125.16	111.78	96.27
pre-B-cell leukemia homeobox interacting protein 1	Pbxip1	100759705	39.85	41.40	41.56	41.00	33.28	34.99	3486.29	3625.36	3670.37	3560.20	2916.59	3076.93
pyruvate carboxylase	Pc	100758970	9.34	9.03	11.39	10.24	8.94	9.52	1152.98	1136.47	1411.01	1265.54	1050.51	1132.82
pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha	Pcbd1	100767749	0.00	0.29	0.11	0.05	0.09	0.25	1.52	9.15	4.97	5.79	6.21	8.41
pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2	Pcbd2	100762703	0.00	0.19	0.00	0.00	0.22	0.00	2.28	0.92	0.00	0.00	1.03	0.00
poly(rC) binding protein 1	Pcbp1	100771216	124.06	126.92	147.04	132.59	110.16	112.60	4792.69	4923.80	5641.56	4982.20	4079.92	4209.75
poly(rC) binding protein 2	Pcbp2	100766030	382.19	381.06	366.55	376.65	350.02	361.01	15864.50	16150.34	15255.31	14877.05	13612.14	13712.54
poly(rC) binding protein 3	Pcbp3	100755366	9.59	8.97	7.60	7.98	7.39	8.68	571.17	547.19	452.12	467.04	430.55	521.55
poly(rC) binding protein 4	Pcbp4	100762513	23.55	21.50	22.02	17.60	11.64	12.47	1339.07	1243.53	1230.91	950.31	622.03	666.42
propionyl CoA carboxylase, alpha polypeptide	Pcca	100765530	22.69	22.81	23.49	24.85	28.36	27.28	1698.33	1680.92	1689.24	1687.39	1974.75	1892.71
propionyl CoA carboxylase, beta polypeptide	Pccb	100759926	15.56	14.42	7.44	7.41	7.28	7.06	742.83	706.41	360.21	343.04	338.44	331.81
protocadherin 1	Pcdh1	100751761	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin 10	Pcdh10	100754459	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
protocadherin 12	Pcdh12	100751474	0.09	0.11	0.12	0.11	0.08	0.07	12.15	13.73	14.91	15.07	9.31	8.41
protocadherin-related 15	Pcdh15	100765729	0.60	0.64	0.01	0.01	0.01	0.00	141.27	148.24	2.48	1.16	2.07	0.00
protocadherin 17	Pcdh17	100752415	0.01	0.01	0.01	0.00	0.00	0.02	0.76	0.92	1.24	0.00	0.00	1.87
protocadherin 18	Pcdh18	100756175	5.74	6.03	10.45	11.02	9.67	9.10	849.92	891.24	1563.79	1623.65	1418.97	1352.47
protocadherin 19	Pcdh19	100774560	1.05	1.04	0.92	1.20	1.46	1.25	208.87	206.80	182.59	239.90	286.69	256.10
protocadherin 20	Pcdh20	100757789	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin 7	Pcdh7	100769505	2.97	2.82	5.02	4.72	6.16	5.81	892.46	845.49	1504.17	1462.56	1815.37	1760.92
protocadherin 8	Pcdh8	100753751	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin 9	Pcdh9	100768906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin beta 1	Pcdhb1	100771148	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00
protocadherin beta 3	Pcdhb3	100771727	0.87	0.66	1.01	0.83	0.96	1.15	135.20	123.53	178.86	146.02	146.97	189.74

protocadherin gamma subfamily A, 1	Pcdhga 1	100757910	0.05	0.10	0.02	0.00	0.11	0.07	3.04	6.41	1.24	0.00	7.24	5.61
protocadherin gamma subfamily A, 6	Pcdhga 6	100756460	0.00	0.03	0.00	0.03	0.02	0.00	0.00	1.83	0.00	2.32	1.03	0.00
protocadherin gamma subfamily A, 7	Pcdhga 7	100756169	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
protocadherin gamma subfamily A, 8	Pcdhga 8	100755587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin gamma subfamily A, 9	Pcdhga 9	100755009	0.01	0.01	0.02	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
protocadherin gamma subfamily B, 4	Pcdhgb 4	100755880	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protocadherin gamma subfamily C, 3	Pcdhgc 3	100753841	6.77	7.47	6.91	5.43	5.04	6.46	484.59	542.61	495.59	378.97	349.83	459.86
protocadherin gamma subfamily C, 4	Pcdhgc 4	100753539	0.03	0.01	0.00	0.02	0.04	0.04	2.28	0.92	0.00	1.16	3.10	2.80
protocadherin gamma subfamily C, 5	Pcdhgc 5	100753238	1.56	1.44	1.36	1.33	1.08	1.22	210.39	209.54	195.01	203.97	167.67	184.13
PC-esterase domain containing 1A	Pced1a	100770801	47.89	46.45	56.78	57.61	44.93	47.43	2886.25	2744.19	3351.15	3324.94	2558.49	2725.50
PC-esterase domain containing 1B	Pced1b	100760834	0.00	0.06	0.00	0.03	0.00	0.00	0.00	2.75	0.00	1.16	0.00	0.00
PCF11 cleavage and polyadenylation factor subunit	Pcf11	100753347	10.01	9.41	8.40	10.53	9.36	9.26	1795.55	1699.22	1530.25	1876.29	1693.24	1675.86
polycomb group ring finger 1	Pcgf1	100761496	11.06	11.06	11.63	11.91	13.05	15.51	319.77	301.96	350.27	326.82	352.93	422.47
polycomb group ring finger 2	Pcgf2	100755947	43.55	43.12	30.34	25.94	20.06	20.58	1933.03	1941.70	1353.87	1163.56	918.03	954.30
polycomb group ring finger 3	Pcgf3	100766593	16.71	16.17	17.89	17.61	18.98	20.59	2435.84	2374.51	2586.02	2550.78	2746.85	3015.24
polycomb group ring finger 5	Pcgf5	100769081	20.96	21.48	17.39	19.20	26.12	24.70	3916.94	4020.66	3265.45	3594.97	4787.85	4589.23
polycomb group ring finger 6	Pcgf6	100764227	7.63	7.14	6.18	8.51	8.35	8.05	286.35	290.07	259.60	337.25	318.78	318.72
PCI domain containing 2	Pcid2	100758184	22.04	21.84	20.19	20.19	19.83	21.93	1614.02	1600.39	1492.99	1467.19	1458.30	1602.96
PDX1 C-terminal inhibiting factor 1	Pcif1	100771480	18.36	17.73	16.86	14.86	11.46	12.34	1884.42	1781.57	1705.39	1478.78	1256.47	1267.41
phosphoenolpyruvate carboxykinase 1 (soluble)	Pck1	100758749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoenolpyruvate carboxykinase 2 (mitochondrial)	Pck2	100762618	94.10	87.38	106.13	90.08	67.27	81.05	6117.33	5711.64	6983.01	5822.41	4338.66	5222.93
piccolo presynaptic cytomatrix protein	Pclo	100756778	1.17	1.22	1.05	0.97	1.78	1.38	212.67	213.20	201.22	190.06	335.34	266.38
pericentriolar material 1	Pcm1	100771354	12.62	11.29	12.01	15.07	16.91	15.48	2564.96	2349.81	2485.42	3079.25	3413.38	3135.82
protein-L-isoaspartate (D-aspartate) O-methyltransferase	Pcmt1	100762308	20.61	19.82	21.74	23.25	25.66	26.01	1522.88	1463.14	1591.11	1716.36	1887.82	1898.31
protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	Pcmtd1	100764383	1.69	1.63	2.15	2.60	2.98	2.18	170.14	163.79	232.27	261.92	305.32	221.52
protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	Pcmtd2	100765664	19.67	18.26	20.68	21.03	22.82	21.56	877.27	815.29	920.39	922.50	1017.39	968.32
proliferating cell nuclear antigen	Pcna	100689335	170.55	182.42	188.23	190.19	200.69	199.15	5025.11	5427.98	5511.14	5362.32	5737.96	5597.74
PEST proteolytic signal containing nuclear protein	Pcnp	100758379	21.52	21.93	23.79	25.02	25.59	25.38	399.52	425.49	449.64	483.27	489.55	477.62
pericentrin	Pcnt	100764247	7.85	7.45	9.17	8.94	8.18	8.06	2489.01	2381.83	3020.76	2915.84	2659.91	2621.75
pecanex homolog (Drosophila)	Pcnx	100762643	14.63	14.41	13.64	14.84	13.56	13.88	5319.05	5294.38	5050.33	5428.38	4935.85	5064.98
pecanex-like 2 (Drosophila)	Pcnxl2	100762770	0.05	0.05	0.04	0.02	0.03	0.04	25.82	22.88	11.18	16.22	12.42	15.89
pecanex-like 3 (Drosophila)	Pcnxl3	100762385	10.69	10.33	11.43	8.81	6.03	6.92	2378.12	2285.75	2563.67	1986.39	1375.50	1538.47

pecanex-like 4 (Drosophila)	Pcnxl4	100751396	3.41	3.34	4.59	4.92	5.42	5.35	420.78	413.60	572.60	606.12	663.43	664.55
procollagen C-endopeptidase enhancer	Pcolce	100752170	144.18	142.59	144.53	133.46	104.75	105.89	5326.65	5349.29	5449.03	4975.24	4045.76	4105.07
procollagen C-endopeptidase enhancer 2	Pcolce2	100766545	29.71	27.32	13.67	15.58	13.34	12.63	1490.22	1377.13	710.47	786.91	670.67	636.51
Purkinje cell protein 2	Pcp2	100768267	0.11	0.00	0.00	0.00	0.00	0.00	14.43	15.56	13.66	9.27	12.42	7.48
Purkinje cell protein 4	Pcp4	100762325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Purkinje cell protein 4 like 1	Pcp4l1	100770275	1.07	1.32	0.55	0.78	0.76	0.81	53.17	66.80	27.33	38.24	38.29	40.19
proprotein convertase subtilisin/kexin type 1	Pcsk1	100757402	0.03	0.02	0.00	0.00	0.01	0.00	2.28	2.75	0.00	0.00	1.03	0.00
proprotein convertase subtilisin/kexin type 1 inhibitor	Pcsk1n	100763113	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
proprotein convertase subtilisin/kexin type 2	Pcsk2	100771130	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.92	0.00	0.00	0.00	0.93
proprotein convertase subtilisin/kexin type 4	Pcsk4	100756537	0.01	0.02	0.02	0.00	0.00	0.00	4.56	4.58	3.73	2.32	4.14	0.93
proprotein convertase subtilisin/kexin type 6	Pcsk6	100771371	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
proprotein convertase subtilisin/kexin type 7	Pcsk7	100761308	22.80	21.15	24.50	22.67	20.53	23.68	2432.80	2283.92	2666.76	2434.89	2191.07	2507.72
proprotein convertase subtilisin/kexin type 9	Pcsk9	100769049	0.29	0.18	0.13	0.17	0.06	0.08	29.62	21.05	11.18	17.38	5.17	10.28
phosphatidylcholine transfer protein	Pctp	100763937	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prenylcysteine oxidase 1	Pcyox1	100774789	33.40	34.39	41.95	45.87	50.05	53.33	1724.15	1782.49	2209.67	2381.58	2576.08	2806.81
prenylcysteine oxidase 1 like	Pcyox1l	100758588	2.51	2.27	1.84	1.76	1.55	1.53	138.24	122.61	98.12	92.71	86.94	85.99
phosphate cytidylyltransferase 1, choline, alpha	Pcyt1a	100689303	27.73	27.59	28.80	26.23	26.52	29.85	1052.72	1050.46	1050.81	930.61	934.59	1037.48
phosphate cytidylyltransferase 1, choline, beta	Pcyt1b	100770553	1.82	2.12	1.68	1.74	2.32	2.10	246.09	284.58	231.03	239.90	315.67	289.75
phosphate cytidylyltransferase 2, ethanolamine	Pcyt2	100756894	19.42	18.38	7.28	6.91	5.26	5.31	1189.44	1100.79	457.09	420.69	303.25	303.77
PDGFA associated protein 1	Pdap1	100774507	303.99	322.39	303.73	278.86	244.68	255.25	10590.26	11199.10	10534.14	9489.24	8465.15	8765.33
phosducin	Pdc	100751514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
programmed cell death 1	Pdcd1	100774461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
programmed cell death 10	Pdcd10	100759439	41.23	43.76	42.67	43.17	47.97	43.65	1726.43	1822.75	1753.83	1762.72	1921.97	1827.28
programmed cell death 11	Pdcd11	100753073	27.88	27.98	28.51	27.97	24.06	25.30	5020.55	5008.89	5178.26	5001.90	4413.18	4558.38
programmed cell death 1 ligand 2	Pdcd1lg2	100759465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
programmed cell death 2	Pdcd2	100752443	8.94	9.10	9.45	9.04	9.67	9.75	1345.90	1383.53	1468.15	1389.54	1464.51	1495.47
programmed cell death 2-like	Pdcd2l	100764678	21.56	19.34	21.48	19.59	18.12	17.77	599.28	554.51	598.69	537.74	517.49	488.83
programmed cell death 4 (neoplastic transformation inhibitor)	Pdcd4	100766922	7.57	8.05	7.94	9.62	9.92	9.10	625.86	614.90	587.51	662.90	712.07	656.14
programmed cell death 5	Pdcd5	100758756	38.56	40.11	39.73	37.60	34.89	36.25	1560.09	1603.14	1603.53	1489.21	1401.37	1448.74
programmed cell death 6	Pdcd6	100750445	65.32	64.15	61.77	62.54	66.87	64.45	1897.33	1884.97	1815.93	1803.28	1930.25	1848.78
programmed cell death 6 interacting protein	Pdcd6ip	100769458	59.67	56.16	56.32	55.99	59.64	59.83	5641.10	5437.13	5429.16	5322.92	5664.48	5636.99
programmed cell death 7	Pdcd7	100753946	16.19	17.17	21.41	19.91	20.92	22.60	576.49	583.79	735.32	716.21	733.81	792.60
phosducin-like	Pdcl	100768925	20.24	22.11	20.79	21.89	24.45	23.38	1629.21	1768.76	1705.39	1767.35	1935.42	1887.10
phosducin-like 2	Pdcl2	100770380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

phosducin-like 3	Pdcl3	100755176	57.62	58.66	50.82	55.80	63.02	58.79	1852.52	1862.09	1659.43	1778.94	1988.21	1837.56
Parkinson disease 7 domain containing 1	Pddc1	100752248	14.93	13.61	15.50	12.87	8.02	11.73	386.61	358.69	479.45	406.78	263.92	367.33
phosphodiesterase 10A	Pde10a	100751551	4.69	4.58	6.11	6.19	4.89	5.36	1070.95	1061.44	1419.71	1432.42	1115.72	1237.50
phosphodiesterase 12	Pde12	100769630	10.79	11.46	12.30	13.15	13.88	13.08	1911.00	2029.54	2198.49	2342.18	2441.53	2331.07
phosphodiesterase 1A, calmodulin-dependent	Pde1a	100762910	0.01	0.00	0.00	0.01	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
phosphodiesterase 1B, calmodulin-dependent	Pde1b	100689193	0.21	0.15	0.00	0.01	0.01	0.01	22.79	15.56	0.00	1.16	0.00	0.93
phosphodiesterase 1C, calmodulin-dependent 70kDa	Pde1c	100774969	0.31	0.38	0.00	0.00	0.00	0.00	32.66	38.43	0.00	0.00	0.00	0.00
phosphodiesterase 2A, cGMP-stimulated	Pde2a	100750420	0.13	0.13	0.01	0.02	0.00	0.02	14.43	14.64	1.24	2.32	0.00	2.80
phosphodiesterase 3A, cGMP-inhibited	Pde3a	100774584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphodiesterase 3B, cGMP-inhibited	Pde3b	100775064	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
phosphodiesterase 4A, cAMP-specific	Pde4a	100759696	4.85	4.63	6.53	6.55	5.48	6.17	600.04	587.45	812.32	805.45	672.74	757.08
phosphodiesterase 4B, cAMP-specific	Pde4b	100774886	10.07	9.18	12.95	14.00	13.97	12.58	1065.63	1000.13	1466.90	1579.61	1568.00	1440.33
phosphodiesterase 4C, cAMP-specific	Pde4c	100770327	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	2.32	1.03	0.93
phosphodiesterase 4D, cAMP-specific	Pde4d	100754362	0.09	0.10	0.02	0.00	0.01	0.02	6.84	8.24	1.24	0.00	1.03	1.87
phosphodiesterase 5A, cGMP-specific	Pde5a	100755315	8.49	9.00	11.22	13.48	15.52	14.41	1617.06	1704.71	2114.03	2580.91	2912.45	2706.80
phosphodiesterase 6A, cGMP-specific, rod, alpha	Pde6a	100762641	0.01	0.01	0.02	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
phosphodiesterase 6B, cGMP-specific, rod, beta	Pde6b	100766007	0.37	0.38	0.21	0.12	0.14	0.22	49.37	46.67	26.08	19.70	25.87	29.91
phosphodiesterase 6C, cGMP-specific, cone, alpha prime	Pde6c	100752813	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	1.87
phosphodiesterase 6D, cGMP-specific, rod, delta	Pde6d	100762580	49.90	52.20	59.87	58.06	64.90	64.22	1288.94	1355.16	1529.01	1457.92	1654.94	1607.63
phosphodiesterase 6G, cGMP-specific, rod, gamma	Pde6g	100764811	0.47	0.43	0.32	0.39	0.17	0.15	19.75	18.30	14.91	16.22	8.28	7.48
phosphodiesterase 6H, cGMP-specific, cone, gamma	Pde6h	100753606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphodiesterase 7A	Pde7a	100760222	5.60	5.28	5.18	5.92	5.54	5.50	497.50	481.31	481.93	530.79	495.76	496.31
phosphodiesterase 7B	Pde7b	100753277	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
phosphodiesterase 8A	Pde8a	100759944	0.04	0.01	0.01	0.00	0.00	0.00	4.56	0.92	2.48	2.32	1.03	1.87
phosphodiesterase 8B	Pde8b	100755939	0.02	0.01	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
phosphodiesterase 9A	Pde9a	100765436	0.00	0.07	0.00	0.00	0.00	0.09	1.52	2.75	0.00	0.00	1.03	3.74
peptide deformylase (mitochondrial)	Pdf	100762250	10.39	9.94	13.19	12.22	13.50	13.06	565.86	544.44	724.14	672.17	723.46	712.22
platelet-derived growth factor alpha polypeptide	Pdgfa	100771503	9.03	8.23	7.14	6.36	4.99	5.25	474.71	439.22	360.21	321.02	255.64	283.20
platelet-derived growth factor beta polypeptide	Pdgfb	100774990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
platelet derived growth factor C	Pdgfc	100765334	27.39	28.59	23.82	25.90	28.83	27.99	2096.33	2174.12	1799.78	1979.44	2173.47	2116.09
platelet derived growth factor D	Pdgfd	100756952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

platelet-derived growth factor receptor, alpha polypeptide	Pdgfra	100760258	5.12	5.38	3.54	4.25	4.75	4.22	688.90	770.46	491.87	608.43	672.74	610.34
platelet-derived growth factor receptor, beta polypeptide	Pdgfrb	100764374	2.74	2.46	0.60	0.66	0.07	0.13	393.44	353.20	86.95	100.83	10.35	18.69
platelet-derived growth factor receptor-like	Pdgfrl	100774739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate dehydrogenase (lipoamide) alpha 1	Pdha1	100774853	85.96	89.25	86.15	89.21	86.91	87.95	4507.87	4637.39	4780.79	4684.35	4810.62	4719.15
pyruvate dehydrogenase (lipoamide) beta	Pdhb	100774878	54.78	58.27	55.16	55.98	58.88	56.02	2201.14	2334.25	2192.28	2252.94	2311.12	2265.64
pyruvate dehydrogenase complex, component X	Pdhx	100750352	12.29	13.06	13.76	13.02	14.07	13.95	795.24	854.64	878.16	842.53	911.82	909.43
protein disulfide isomerase family A, member 2	Pdia2	100773412	0.00	0.00	0.05	0.00	0.02	0.00	0.76	0.00	2.48	1.16	1.03	0.93
protein disulfide isomerase family A, member 3	Pdia3	100689343	305.22	325.96	388.38	400.69	444.74	426.96	14934.06	16122.89	19362.89	19554.46	21645.70	20683.31
protein disulfide isomerase family A, member 4	Pdia4	100753458	99.67	101.77	129.05	140.11	144.18	138.42	7065.23	7312.03	9402.60	10013.07	10272.24	9857.96
protein disulfide isomerase family A, member 5	Pdia5	100766255	48.13	48.31	56.83	56.41	49.46	52.58	2418.37	2491.64	2856.80	2812.70	2493.28	2603.99
protein disulfide isomerase family A, member 6	Pdia6	100766687	340.15	331.92	371.76	359.22	336.66	353.20	15517.39	15431.13	17235.20	16323.39	15257.77	15885.65
PDLIM1 interacting kinase 1 like	Pdik1l	100769707	3.46	3.69	4.20	4.42	5.27	4.66	435.98	474.90	534.10	563.24	674.81	600.99
protein disulfide isomerase-like, testis expressed	Pdilt	100765109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate dehydrogenase kinase, isozyme 1	Pdk1	100774056	13.43	14.87	18.50	19.97	19.51	19.39	834.73	898.56	1120.36	1200.64	1139.52	1158.06
pyruvate dehydrogenase kinase, isozyme 2	Pdk2	100758762	11.23	11.58	8.43	7.72	8.27	8.69	743.59	766.80	572.60	505.29	538.19	570.15
pyruvate dehydrogenase kinase, isozyme 3	Pdk3	100770270	10.74	11.73	11.77	13.14	15.30	14.88	650.17	714.64	710.47	786.91	928.38	886.07
pyruvate dehydrogenase kinase, isozyme 4	Pdk4	100763413	2.61	2.74	1.78	1.77	2.65	2.36	253.69	267.19	175.13	178.47	264.96	231.80
PDZ and LIM domain 1	Pdlim1	100756459	21.47	20.63	21.40	21.51	15.03	16.26	854.48	813.46	850.83	841.38	600.29	642.12
PDZ and LIM domain 2 (mystique)	Pdlim2	100768674	5.45	4.92	7.59	6.02	5.28	6.94	213.43	193.07	288.16	228.31	197.68	263.58
PDZ and LIM domain 3	Pdlim3	100770287	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PDZ and LIM domain 4	Pdlim4	100762311	1.56	2.46	1.51	1.10	0.84	0.95	86.59	99.74	63.35	52.15	42.43	44.86
PDZ and LIM domain 5	Pdlim5	100770600	75.45	74.32	88.57	92.02	98.44	98.04	2555.09	2624.32	3154.90	3384.05	3632.80	3593.80
PDZ and LIM domain 7 (enigma)	Pdlim7	100770789	32.29	29.75	20.86	14.82	9.90	10.11	1004.87	964.45	663.27	476.32	315.67	319.66
pyruvate dehyrogenase phosphatase catalytic subunit 1	Pdp1	100761381	2.13	2.44	2.34	2.18	2.64	2.40	280.27	323.01	315.49	290.89	348.79	320.59
pyruvate dehyrogenase phosphatase catalytic subunit 2	Pdp2	100762846	3.28	3.36	4.58	4.67	4.97	5.02	481.55	502.35	686.87	704.62	732.77	758.02
3-phosphoinositide dependent protein kinase 1	Pdpk1	100772477	19.84	20.02	18.73	19.75	22.64	22.87	4084.04	4133.21	3871.58	4089.83	4634.67	4725.69
podoplanin	Pdpn	103158780	10.85	11.98	10.55	9.35	14.09	14.94	167.10	161.05	134.15	127.48	193.54	215.91
pyruvate dehydrogenase phosphatase regulatory subunit	Pdpr	100772770	9.30	9.07	11.29	12.85	14.45	14.12	1034.49	1007.45	1269.41	1411.56	1601.12	1574.92
p53 and DNA-damage regulated 1	Pdrg1	100754797	169.78	169.49	178.98	176.02	156.65	168.10	5174.74	5170.85	5543.43	5559.34	5052.80	5417.35
PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	Pds5a	100764706	32.22	33.23	30.25	36.34	37.19	35.49	5033.47	5138.83	4744.77	5504.87	5724.51	5472.49

PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	Pds5b	100758477	14.60	14.07	15.48	18.31	19.56	18.64	2940.18	2857.65	3190.92	3756.06	3926.74	3753.63
prenyl (decaprenyl) diphosphate synthase, subunit 1	Pdss1	100772754	6.28	7.15	7.25	7.62	9.24	8.89	275.71	312.94	330.40	348.83	403.64	395.37
prenyl (decaprenyl) diphosphate synthase, subunit 2	Pdss2	100768592	18.58	18.21	19.34	18.81	19.77	18.19	1032.97	1020.26	1090.55	1048.82	1101.23	1016.92
pancreatic and duodenal homeobox 1	Pdx1	100757561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyridoxal-dependent decarboxylase domain containing 1	Pdxdc1	100772549	33.43	35.31	35.11	36.31	35.57	38.09	3859.98	4046.28	4013.18	4117.64	4027.13	4331.26
pyridoxal (pyridoxine, vitamin B6) phosphatase	Pdxp	100755599	9.58	9.82	11.83	10.99	11.77	11.90	357.74	365.10	443.43	404.46	433.66	439.29
prodynorphin	Pdyn	100750894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PDZ domain containing 11	Pdzd11	100769702	64.82	60.64	71.38	67.69	73.24	73.41	1789.47	1735.82	2007.21	1869.34	2043.06	1995.52
PDZ domain containing 2	Pdzd2	100774098	0.50	0.52	0.33	0.40	0.55	0.58	134.44	138.17	99.37	115.89	146.97	155.16
PDZ domain containing 3	Pdzd3	100756376	0.03	0.05	0.02	0.02	0.02	0.00	1.52	2.75	1.24	1.16	1.03	0.00
PDZ domain containing 4	Pdzd4	100751172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PDZ domain containing 8	Pdzd8	100750380	9.59	9.24	8.70	10.86	9.66	9.91	938.03	916.86	855.80	1081.27	949.08	972.06
PDZ domain containing 9	Pdzd9	100751410	0.41	0.62	0.38	0.79	0.71	0.56	21.27	30.20	19.87	30.13	41.40	30.84
PDZ domain containing 1	Pdzk1	100752699	0.47	0.52	0.73	0.50	0.81	0.83	58.48	65.88	110.55	85.76	107.64	121.51
PDZK1 interacting protein 1	Pdzk1ip 1	100759293	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
PDZ domain containing ring finger 3	Pdzrn3	100752863	0.02	0.02	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.00
PDZ domain containing ring finger 4	Pdzrn4	100752883	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoprotein enriched in astrocytes 15	Pea15	100736554	75.70	76.58	80.59	85.45	93.98	95.36	3449.07	3541.18	3697.69	3826.75	4175.13	4316.30
pseudopodium-enriched atypical kinase 1	Peak1	100758721	3.15	3.33	3.28	3.59	3.76	3.77	769.41	810.72	808.60	891.21	911.82	927.19
platelet endothelial aggregation receptor 1	Pear1	100750684	0.01	0.02	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
phosphatidylethanolamine binding protein 1	Pebp1	100753772	312.46	312.47	299.19	281.22	251.49	255.18	10096.55	10129.42	9685.79	9005.97	8071.86	8213.88
phosphatidylethanolamine-binding protein 4	Pebp4	100751985	0.00	0.00	0.00	0.00	0.04	0.00	0.76	1.83	0.00	1.16	2.07	0.00
platelet/endothelial cell adhesion molecule 1	Pecam1	100774872	0.05	0.10	0.01	0.00	0.05	0.01	5.32	9.15	1.24	0.00	6.21	0.93
peroxisomal trans-2-enoyl-CoA reductase	Pecr	100757202	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.93
penta-EF-hand domain containing 1	Pef1	100759974	62.85	60.08	64.23	56.91	49.29	55.63	2489.77	2376.34	2552.49	2227.44	1931.28	2198.34
paternally expressed 10	Peg10	100763982	0.07	0.06	0.06	0.03	0.05	0.05	9.11	7.32	7.45	3.48	5.17	5.61
pellino E3 ubiquitin protein ligase 1	Peli1	100754085	1.85	1.76	2.09	2.91	2.37	2.68	168.62	156.47	188.80	268.87	209.07	243.01
pellino E3 ubiquitin protein ligase family member 2	Peli2	100768260	6.44	6.41	8.94	9.69	10.42	10.16	1042.85	1052.29	1465.66	1591.20	1695.31	1664.65
pellino E3 ubiquitin protein ligase family member 3	Peli3	100760911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pelota homolog (Drosophila)	Pelo	100750681	15.78	15.98	17.13	15.40	12.50	13.38	679.79	685.36	727.86	654.79	535.09	576.69
proline, glutamate and leucine rich protein 1	Pelp1	100775022	18.60	17.63	19.33	18.23	14.16	15.54	1626.93	1628.76	1771.22	1643.35	1300.98	1399.20
phosphatidylethanolamine N-methyltransferase	Pemt	100767954	12.74	13.40	10.74	9.50	6.57	9.74	318.25	316.60	245.93	223.67	163.53	227.12

proenkephalin	Penk	100774423	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidase D	Pepd	100770474	8.88	7.62	10.20	8.25	6.26	5.91	486.11	443.79	587.51	436.91	332.23	324.33
period circadian clock 1	Per1	100753886	1.98	1.84	1.78	1.51	2.14	2.33	217.23	199.48	193.77	166.88	237.01	252.36
period circadian clock 2	Per2	100772001	2.71	2.43	1.45	1.54	1.34	1.29	458.00	418.17	250.90	261.92	228.73	225.26
period circadian clock 3	Per3	100762774	13.37	13.00	12.93	13.63	15.02	15.59	1097.53	1067.84	1070.68	1087.07	1206.79	1232.83
PERP, TP53 apoptosis effector	Perp	100750923	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pescadillo ribosomal biogenesis factor 1	Pes1	100770230	165.86	162.01	166.12	167.10	148.69	164.36	6681.67	6806.02	6924.63	6837.63	6081.58	6595.96
PET100 homolog (S. cerevisiae)	Pet100	100767979	33.73	44.45	40.18	41.25	48.19	49.64	315.21	337.65	308.04	341.88	383.98	370.13
PET112 homolog (yeast)	Pet112	100751606	19.05	18.94	17.24	18.04	19.84	21.00	1149.94	1155.69	1043.35	1085.91	1194.37	1265.54
PET117 homolog (S. cerevisiae)	Pet117	100768012	20.24	20.58	19.66	22.09	18.39	16.66	228.62	225.10	238.48	230.63	239.08	195.35
peroxisomal biogenesis factor 1	Pex1	100763358	4.93	4.77	5.12	5.87	5.69	5.78	619.02	611.24	662.03	760.25	736.91	722.50
peroxisomal biogenesis factor 10	Pex10	100758018	12.66	12.03	15.37	14.32	16.21	15.32	1056.52	994.64	1294.25	1189.05	1344.45	1271.15
peroxisomal biogenesis factor 11 alpha	Pex11a	100761020	5.71	5.57	5.77	5.32	6.12	6.06	200.52	182.09	182.59	183.11	199.75	197.22
peroxisomal biogenesis factor 11 beta	Pex11b	100754487	18.80	19.07	23.05	22.29	22.62	21.64	834.73	851.90	1035.90	998.99	995.66	963.64
peroxisomal biogenesis factor 12	Pex12	100751101	3.33	3.37	2.03	1.86	2.33	2.30	276.47	276.34	170.17	151.82	190.44	192.54
peroxisomal biogenesis factor 13	Pex13	100689378	10.03	9.62	10.33	10.91	13.44	12.35	423.82	407.19	440.94	467.04	569.24	531.83
peroxisomal biogenesis factor 14	Pex14	100769796	20.87	19.55	18.82	12.55	5.77	8.37	1096.77	1023.92	1007.33	639.72	320.85	441.16
peroxisomal biogenesis factor 16	Pex16	100750639	16.72	15.39	18.35	16.32	13.13	15.25	574.97	536.21	655.82	563.24	398.47	485.09
peroxisomal biogenesis factor 19	Pex19	100689302	46.99	45.75	49.58	51.47	50.40	55.95	2592.31	2575.82	2776.06	2835.88	2782.04	3090.02
peroxisomal biogenesis factor 2	Pex2	100689047	7.08	6.63	5.93	6.50	7.24	7.03	291.66	283.66	237.24	266.55	278.41	280.40
peroxisomal biogenesis factor 26	Pex26	100753828	3.70	3.47	4.14	4.09	3.75	4.46	409.39	387.06	469.51	458.93	422.27	503.79
peroxisomal biogenesis factor 3	Pex3	100760471	14.06	15.81	18.68	18.54	21.73	19.25	806.63	889.41	1150.17	1110.25	1314.43	1201.99
peroxisomal biogenesis factor 5	Pex5	100689015	24.55	23.70	29.34	25.02	22.51	22.99	2236.84	2142.09	2577.33	2298.14	2105.16	2096.46
peroxisomal biogenesis factor 5-like	Pex5l	100767317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peroxisomal biogenesis factor 6	Pex6	100773621	3.69	2.90	4.22	3.24	2.59	2.76	336.48	276.34	412.37	304.80	256.68	268.25
peroxisomal biogenesis factor 7	Pex7	100736556	6.57	6.96	5.94	6.29	6.87	6.50	253.69	262.61	234.75	232.94	252.54	243.95
phosphoribosylformylglycinamidine synthase	Pfas	100760956	27.06	25.81	31.08	26.84	19.84	21.63	3829.60	3679.35	4462.82	3902.08	2989.04	3184.42
prefoldin subunit 1	Pfdn1	100752168	135.73	134.40	144.15	157.44	153.34	168.58	1565.41	1512.55	1558.82	1379.11	1339.27	1420.70
prefoldin subunit 2	Pfdn2	100766028	166.62	167.59	160.13	135.40	104.22	109.36	2480.66	2541.05	2322.70	1927.28	1503.84	1479.58
prefoldin subunit 4	Pfdn4	103159810	235.21	246.03	204.20	220.88	238.31	239.21	2611.30	2756.08	2253.15	2322.48	2697.17	2744.19
prefoldin subunit 5	Pfdn5	100768547	126.89	136.15	166.16	160.32	150.99	159.38	2228.49	2362.62	2822.02	2641.18	2558.49	2689.98
prefoldin subunit 6	Pfdn6	100750607	328.01	299.32	341.04	243.51	132.99	159.28	4257.22	4006.02	4480.21	3082.73	1842.28	2022.63
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1	Pfkfb1	100754096	3.23	2.76	2.96	3.45	3.61	3.48	190.64	166.54	171.41	194.70	209.07	210.30
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	Pfkfb2	100768313	9.39	9.68	7.88	9.29	11.33	10.70	1942.14	1969.15	1650.73	1912.22	2290.42	2169.37
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	Pfkfb3	100762756	17.17	17.03	15.32	16.16	16.00	16.11	2319.63	2324.19	2101.61	2181.09	2169.33	2185.26
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	Pfkfb4	100761571	0.94	0.95	1.31	1.12	1.05	1.27	91.14	90.59	124.21	105.46	95.22	116.83
phosphofructokinase, liver	Pfkl	100762127	67.65	64.03	63.83	49.29	30.66	32.15	5733.76	5576.21	5490.02	4170.95	2585.40	2674.09
phosphofructokinase, muscle	Pfkm	100754270	16.60	16.21	16.51	17.25	17.31	17.39	1465.15	1493.33	1473.11	1511.23	1545.23	1528.18
phosphofructokinase, platelet	Pfkp	100751501	8.18	7.51	8.82	9.06	7.71	7.61	673.71	655.16	755.19	753.30	660.32	650.53
profilin 1	Pfn1	100753478	358.14	341.45	307.56	320.66	333.89	407.44	4555.72	4400.40	4101.37	4143.14	4101.65	5097.69

profilin 2	Pfn2	100770381	50.46	52.84	59.25	63.07	63.27	61.68	3119.43	3296.87	3731.23	3939.17	3918.46	3891.03
profilin 3	Pfn3	100771269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
profilin family, member 4	Pfn4	100760079	0.10	0.00	0.25	0.31	0.07	0.00	1.52	1.83	3.73	6.95	1.03	0.93
phosphoglycerate mutase 1 (brain)	Pgam1	100766080	242.49	242.09	229.82	223.84	205.22	212.42	9928.70	9904.32	9403.84	9023.35	8171.22	8552.23
phosphoglycerate mutase 2 (muscle)	Pgam2	100761944	0.48	0.47	0.52	0.55	0.66	0.84	18.99	21.96	22.36	25.50	26.91	30.84
phosphoglycerate mutase family member 5	Pgam5	100750483	45.16	46.83	51.72	53.34	54.00	53.72	2767.76	2857.65	3182.23	3249.61	3310.92	3322.75
post-GPI attachment to proteins 1	Pgap1	100761032	1.38	1.58	1.18	1.18	1.31	1.32	249.13	287.32	214.88	216.72	231.84	237.41
post-GPI attachment to proteins 2	Pgap2	100689385	7.82	7.89	6.97	7.45	7.90	6.61	413.95	382.48	361.45	369.70	386.05	327.13
post-GPI attachment to proteins 3	Pgap3	100689454	5.48	4.91	8.81	7.89	4.98	5.61	353.19	307.45	546.52	506.45	317.74	363.59
piggyBac transposable element derived 1	Pgbd1	103161170	0.09	0.05	0.05	0.12	0.12	0.11	37.22	31.11	18.63	37.09	38.29	34.58
piggyBac transposable element derived 5	Pgbd5	100774154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
progastricsin (pepsinogen C)	Pgc	100770180	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
phosphogluconate dehydrogenase	Pgd	100765199	78.42	78.12	101.31	97.45	79.54	83.85	6220.63	6250.59	8172.93	7767.08	6312.38	6574.47
placental growth factor	Pgf	100754799	0.69	0.46	0.31	0.66	0.39	0.53	26.58	17.39	12.42	24.34	13.45	20.56
protein geranylgeranyltransferase type I, beta subunit	Pggt1b	100759155	10.58	10.31	11.02	11.88	11.48	11.36	972.97	965.36	1027.21	1116.04	1056.72	1062.72
phosphoglycerate kinase 1	Pgk1	100689467	376.49	367.02	346.69	360.91	388.33	411.35	18187.17	17713.22	16687.44	17060.46	18232.32	19568.24
phosphoglycerate kinase 2	Pgk2	100755186	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
6-phosphogluconolactonase	Pgls	100774660	61.25	57.83	74.26	66.36	51.04	58.11	998.03	916.86	1230.91	1055.78	808.32	865.50
peptidoglycan recognition protein 1	Pglyrp1	100759235	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	0.00	1.16	1.03	0.93
peptidoglycan recognition protein 2	Pglyrp2	100754520	1.70	1.63	0.26	0.41	0.26	0.50	100.26	101.57	13.66	20.86	16.56	28.04
peptidoglycan recognition protein 3	Pglyrp3	100771434	0.00	0.00	0.00	0.05	0.00	0.00	1.52	1.83	0.00	2.32	0.00	0.93
peptidoglycan recognition protein 4	Pglyrp4	100771725	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
phosphoglucomutase 1	Pgm1	100753184	16.29	15.94	18.02	18.37	17.38	18.23	1105.89	1100.79	1239.60	1240.04	1166.43	1231.89
phosphoglucomutase 2	Pgm2	100761029	27.40	27.80	28.64	31.32	34.46	34.51	2549.77	2636.21	2689.12	2922.80	3205.35	3197.51
phosphoglucomutase 2-like 1	Pgm2l1	100767063	2.08	2.19	2.63	2.96	2.97	2.69	525.60	562.75	658.31	731.28	740.02	665.48
phosphoglucomutase 3	Pgm3	100762575	15.36	15.89	7.14	8.22	8.56	8.24	905.37	912.29	418.58	470.52	487.48	479.49
phosphoglucomutase 5	Pgm5	100770590	0.02	0.02	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.93
phosphoglycolate phosphatase	Pgp	100770052	11.09	11.09	13.31	10.02	10.09	10.92	612.95	605.75	742.77	549.33	550.61	608.47
pyroglutamyl-peptidase I	Pgpep1	100769180	3.64	3.44	4.69	4.35	3.97	4.03	636.49	591.11	827.23	747.50	673.78	699.13
pyroglutamyl-peptidase I-like	Pgpep1l	100769686	0.00	0.00	0.00	0.00	0.07	0.00	0.76	0.00	0.00	0.00	3.10	0.00
progesterone receptor	Pgr	100757656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
progesterone receptor membrane component 1	Pgrmc1	100769956	59.47	59.81	61.93	63.94	72.27	70.28	2795.86	2808.24	2937.54	2974.95	3329.55	3272.28
progesterone receptor membrane component 2	Pgrmc2	100773430	36.09	35.63	39.65	40.49	42.08	42.18	2216.34	2179.61	2471.75	2475.45	2541.93	2593.71
phosphatidylglycerophosphate synthase 1	Pgs1	100689449	28.67	25.70	25.08	20.93	14.35	15.56	1449.20	1337.78	1327.79	1070.84	770.03	816.90
phosphatase and actin regulator 1	Phactr1	100768215	0.04	0.02	0.00	0.00	0.03	0.02	2.28	3.66	2.48	3.48	3.10	1.87

phosphatase and actin regulator 2	Phactr2	100758161	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
phosphatase and actin regulator 3	Phactr3	100765892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatase and actin regulator 4	Phactr4	100770606	7.44	7.72	7.70	7.45	7.97	8.16	707.13	741.18	748.98	726.64	761.75	786.06
phosphorylated adaptor for RNA export	Phax	100756807	13.88	15.54	15.61	17.44	20.42	18.22	509.65	562.75	601.17	637.41	716.21	633.71
prohibitin	Phb	100755273	189.63	176.75	124.96	115.96	104.38	116.75	9941.61	9415.70	6713.48	6109.83	5489.57	6080.96
prohibitin 2	Phb2	100767912	182.54	173.51	198.20	192.34	149.68	168.96	5317.53	5125.10	5796.82	5588.31	4428.71	4886.45
polyhomeotic homolog 1 (Drosophila)	Phc1	100759454	11.86	11.73	10.81	9.81	8.55	8.99	1148.42	1148.37	1083.10	987.40	885.95	902.89
polyhomeotic homolog 3 (Drosophila)	Phc3	100766114	9.09	8.36	8.21	9.71	9.70	9.54	2779.15	2611.51	2661.79	3075.77	3053.21	3044.22
phosphate regulating endopeptidase homolog, X-linked	Phex	100753496	0.03	0.02	0.04	0.01	0.02	0.05	4.56	3.66	6.21	1.16	3.10	5.61
PHD finger protein 1	Phf1	100774330	5.92	4.98	6.52	4.59	3.41	3.98	398.00	342.22	449.64	302.48	234.94	269.18
PHD finger protein 10	Phf10	100773896	74.10	72.37	94.65	101.35	102.39	99.21	2407.74	2417.52	3118.88	3185.87	3287.12	3198.44
PHD finger protein 12	Phf12	100767411	19.90	18.52	21.77	20.32	17.35	17.57	2354.57	2217.13	2597.20	2430.25	2068.94	2084.31
PHD finger protein 13	Phf13	100760522	13.39	12.97	16.68	16.47	15.04	16.29	1201.59	1169.41	1516.59	1481.10	1345.48	1472.10
PHD finger protein 14	Phf14	100766901	27.12	26.72	31.80	35.54	32.57	29.16	1953.53	1947.19	2335.12	2554.26	2327.68	2118.90
PHD finger protein 19	Phf19	100756504	12.42	12.45	13.17	12.29	11.56	11.95	1421.10	1432.03	1524.04	1418.52	1309.26	1357.14
PHD finger protein 2	Phf2	100764126	11.91	11.23	11.85	10.39	9.58	11.11	1819.10	1745.88	1868.10	1621.33	1480.03	1718.86
PHD finger protein 20	Phf20	100762872	19.76	20.17	20.00	20.40	22.97	22.55	3302.48	3380.13	3358.60	3414.18	3810.82	3776.07
PHD finger protein 21A	Phf21a	100751419	14.96	14.46	15.56	15.79	17.13	16.95	1199.31	1154.77	1263.20	1279.45	1373.43	1347.79
PHD finger protein 21B	Phf21b	100760051	9.69	8.76	4.80	3.36	4.52	4.22	930.44	843.66	465.78	321.02	427.45	407.52
PHD finger protein 23	Phf23	100762291	28.54	29.67	33.11	32.01	26.37	28.00	1404.39	1414.64	1603.53	1541.36	1223.35	1339.38
PHD finger protein 3	Phf3	100763501	28.13	26.62	32.53	38.59	37.17	35.32	5679.83	5361.18	6653.86	7807.64	7512.97	7128.73
PHD finger protein 5A	Phf5a	100758913	154.66	148.10	170.66	168.98	158.53	177.71	3582.75	3463.40	3952.32	3839.50	3648.33	4032.17
PHD finger protein 6	Phf6	100767275	17.52	18.55	15.93	18.66	19.41	18.72	2122.15	2237.26	1946.35	2241.35	2332.86	2251.62
PHD finger protein 7	Phf7	100764799	2.45	1.88	0.98	1.40	1.74	1.12	126.84	110.72	59.62	71.85	103.50	74.77
PHD finger protein 8	Phf8	100756628	5.80	5.69	6.17	6.53	6.64	6.98	998.79	984.58	1073.16	1117.20	1133.31	1193.57
phosphoglycerate dehydrogenase	Phgdh	100774394	206.04	193.87	205.79	173.14	116.24	136.61	11004.96	10441.45	11074.45	9177.49	6258.56	7305.38
proline/histidine/glycine-rich 1	Phgr1	103163171	1.21	1.46	0.98	0.78	1.25	1.09	47.85	56.73	39.75	31.29	46.57	46.73
pleckstrin homology domain interacting protein	Phip	100758775	5.96	5.81	7.82	9.26	9.98	9.24	1370.97	1329.54	1805.99	2121.98	2266.62	2127.31
phosphorylase kinase, alpha 1 (muscle)	Phka1	100764708	4.24	4.53	5.62	5.83	6.20	6.15	634.97	658.82	828.47	869.19	918.03	917.85
phosphorylase kinase, alpha 2 (liver)	Phka2	100754496	1.85	1.66	1.49	1.76	2.23	1.90	290.90	267.19	240.96	293.21	362.25	303.77
phosphorylase kinase, beta	Phkb	100754618	12.10	11.99	14.33	16.23	17.69	16.06	1867.71	1839.22	2176.14	2446.48	2643.36	2442.29
phosphorylase kinase, gamma 1 (muscle)	Phkg1	100754334	0.04	0.08	0.00	0.06	0.00	0.05	2.28	3.66	1.24	8.11	1.03	4.67
phosphorylase kinase, gamma 2 (testis)	Phkg2	100750910	24.30	23.05	30.50	31.50	29.15	30.56	1374.01	1260.00	1645.77	1638.71	1381.71	1504.82
pleckstrin homology-like domain, family A, member 2	Phlda2	100761127	0.18	0.22	0.05	0.09	0.00	0.04	5.32	6.41	2.48	2.32	0.00	0.93
pleckstrin homology-like domain, family A, member 3	Phlda3	100764336	61.44	60.33	40.37	31.90	15.83	19.66	1471.99	1443.01	971.31	750.98	376.74	472.01
pleckstrin homology-like domain, family B, member 1	Phldb1	100759254	31.84	31.22	26.14	20.48	15.26	16.21	5130.69	5040.92	4225.58	3305.24	2494.32	2664.74
pleckstrin homology-like domain, family B, member 2	Phldb2	100763743	20.30	19.48	18.90	21.21	24.47	22.09	3230.32	3139.48	3045.60	3404.91	3912.25	3591.00

pleckstrin homology-like domain, family B, member 3	Phldb3	100770079	2.25	2.71	2.63	1.55	0.76	1.04	125.32	143.66	145.32	92.71	45.54	58.88
PH domain and leucine rich repeat protein phosphatase 1	Phlpp1	100750559	3.81	3.58	3.82	4.11	4.08	4.22	737.51	698.17	756.43	795.02	800.04	830.92
PH domain and leucine rich repeat protein phosphatase 2	Phlpp2	100754973	3.35	3.20	3.29	3.78	3.08	3.41	755.74	727.45	753.95	857.60	701.72	770.17
phosphatase, orphan 1	Phosph o1	100760987	3.76	3.59	2.05	1.33	0.61	1.53	198.24	190.33	110.55	67.22	36.22	79.45
phosphatase, orphan 2	Phosph o2	100764721	38.65	40.85	45.39	51.91	59.90	56.69	912.97	915.03	1096.76	1219.18	1418.97	1361.81
phosphohistidine phosphatase 1	Phpt1	100761523	52.87	52.90	53.56	47.24	37.32	43.74	1317.04	1335.95	1341.45	1169.35	939.77	1099.17
PHD and ring finger domains 1	Phrf1	100775084	22.34	21.47	23.53	20.64	17.14	18.97	3508.31	3381.96	3727.50	3286.70	2712.70	3016.18
putative homeodomain transcription factor 1	Phtf1	100760604	4.70	4.61	4.97	5.58	6.48	5.82	401.80	398.04	422.31	461.25	538.19	477.62
putative homeodomain transcription factor 2	Phtf2	100758475	2.88	2.95	3.38	3.66	4.05	3.79	227.86	216.86	226.06	271.19	305.32	291.62
phytanoyl-CoA 2-hydroxylase	Phyh	100774732	18.56	18.73	17.77	17.92	22.32	19.68	756.50	796.08	748.98	742.87	924.24	801.01
phytanoyl-CoA dioxygenase domain containing 1	Phyhd1	100768676	0.27	0.39	0.05	0.27	0.37	0.04	9.11	12.81	3.73	8.11	14.49	7.48
phytanoyl-CoA 2-hydroxylase interacting protein	Phyhip	100767230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phytanoyl-CoA 2-hydroxylase interacting protein-like	Phyhipl	100760806	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-phosphohydroxy-L-lysine phospho-lyase	Phykpl	100767825	6.07	5.81	6.23	6.30	6.55	6.46	1094.50	1141.05	1372.51	1398.82	1448.98	1397.33
peptidase inhibitor 15	Pi15	100764970	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
peptidase inhibitor 16	Pi16	100750689	0.08	0.02	0.06	0.03	0.03	0.05	4.56	1.83	3.73	2.32	1.03	2.80
phosphatidylinositol 4-kinase type 2 alpha	Pi4k2a	100766663	23.61	23.14	31.35	33.20	29.42	31.73	1713.52	1637.91	2275.50	2351.45	2081.36	2277.79
phosphatidylinositol 4-kinase type 2 beta	Pi4k2b	100768572	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatidylinositol 4-kinase, catalytic, alpha	Pi4ka	100756055	11.75	11.25	12.40	13.41	13.16	13.42	2397.11	2319.61	2595.96	2738.53	2665.09	2711.48
phosphatidylinositol 4-kinase, catalytic, beta	Pi4kb	100770133	27.21	25.06	22.68	24.64	21.31	22.27	2545.98	2372.68	2148.81	2339.86	2000.63	2078.71
PILR alpha associated neural protein	Pianp	100755915	0.17	0.36	0.34	0.30	0.15	0.15	10.63	16.47	16.15	12.75	6.21	5.61
protein inhibitor of activated STAT, 1	Pias1	100757208	9.00	9.12	8.25	9.19	9.80	9.30	1482.62	1507.98	1363.81	1514.71	1598.02	1541.27
protein inhibitor of activated STAT, 2	Pias2	100773121	11.01	11.76	11.43	13.06	11.93	10.92	1339.07	1421.05	1404.80	1556.43	1437.60	1319.75
protein inhibitor of activated STAT, 3	Pias3	100753297	12.95	12.94	11.68	10.91	9.88	11.11	926.64	976.34	823.50	739.39	655.15	721.57
protein inhibitor of activated STAT, 4	Pias4	100764375	7.34	7.01	5.83	4.77	3.11	4.11	391.16	355.95	301.83	257.28	158.35	217.78
progesterone immunomodulatory binding factor 1	Pibf1	100773979	7.18	6.97	7.91	8.60	10.25	9.31	604.59	595.69	642.16	718.53	844.55	787.93
phosphatidylinositol binding clathrin assembly protein	Picalm	100761959	86.33	88.27	79.26	88.22	96.84	90.60	8581.27	8907.85	8057.42	8854.15	9729.91	9028.91
protein interacting with PRKCA 1	Pick1	100754727	9.51	10.02	8.89	9.66	7.88	8.96	454.20	493.20	447.15	441.55	397.43	437.43
phosphotyrosine interaction domain containing 1	Pid1	100772428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
p53-induced death domain protein	Pidd	100753147	4.53	3.76	4.56	3.87	2.75	3.18	489.90	421.83	503.05	398.67	301.18	343.02
piezo-type mechanosensitive ion channel component 1	Piezo1	100754271	7.91	7.51	7.63	6.58	5.07	5.69	2092.53	2019.48	2053.17	1740.70	1352.73	1514.16
piezo-type mechanosensitive ion channel component 2	Piezo2	100766094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PIF1 5'-to-3' DNA helicase	Pif1	100755109	3.93	4.17	2.68	3.11	2.48	2.57	410.91	429.15	279.47	309.43	255.64	265.45
primary cilia formation	Pifo	100773667	0.12	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
phosphatidylinositol glycan anchor biosynthesis, class A	Piga	100773712	1.24	1.35	1.34	1.35	1.79	1.71	126.08	129.02	129.18	135.59	175.95	168.24
phosphatidylinositol glycan anchor biosynthesis, class B	Pigb	100768002	18.50	17.10	15.82	16.22	15.89	16.71	1031.45	962.62	900.51	901.64	884.91	928.13
phosphatidylinositol glycan anchor biosynthesis, class C	Pigc	100772999	13.02	13.53	14.59	14.92	15.14	15.41	464.84	473.07	516.71	530.79	537.16	561.74
phosphatidylinositol glycan anchor biosynthesis, class F	Pigf	100764893	25.41	22.55	22.53	24.21	27.96	28.52	416.23	389.80	365.17	418.37	449.18	514.07
phosphatidylinositol glycan anchor biosynthesis, class G	Pigg	100765524	8.27	7.54	7.66	7.85	8.65	8.75	764.86	713.73	717.93	728.96	801.08	829.99
phosphatidylinositol glycan anchor biosynthesis, class H	Pigh	100760756	4.90	4.80	5.52	5.37	6.54	6.51	199.76	197.65	223.58	201.65	240.12	262.64
phosphatidylinositol glycan anchor biosynthesis, class K	Pigk	100761996	93.25	93.56	93.87	95.18	96.34	104.18	3416.41	3451.51	3384.69	3372.46	3494.11	3708.77
phosphatidylinositol glycan anchor biosynthesis, class L	Pigl	100752487	2.56	2.22	3.29	2.93	3.04	2.93	134.44	118.95	165.20	157.61	152.14	150.48
phosphatidylinositol glycan anchor biosynthesis, class M	Pigm	100764842	7.76	7.49	8.03	8.71	9.65	9.66	1047.40	1021.18	1100.49	1179.78	1293.73	1312.28
phosphatidylinositol glycan anchor biosynthesis, class N	Pign	100751357	4.08	4.66	3.38	4.01	3.72	4.45	661.56	738.43	535.34	646.68	657.22	731.85
phosphatidylinositol glycan anchor biosynthesis, class O	Pigo	100774971	2.71	2.26	2.18	2.03	2.43	2.34	316.73	265.36	255.87	239.90	280.48	261.71
phosphatidylinositol glycan anchor biosynthesis, class P	Pigp	100752242	83.78	82.71	86.34	98.43	104.15	102.30	1461.35	1458.56	1442.06	1630.60	1700.48	1728.20
phosphatidylinositol glycan anchor biosynthesis, class Q	Pigq	100769477	58.06	54.56	60.33	55.84	50.19	55.23	4968.15	4664.84	5198.13	4777.07	4234.13	4700.45
polymeric immunoglobulin receptor	Pigr	100769937	0.07	0.04	0.00	0.00	0.00	0.00	5.32	4.58	0.00	0.00	0.00	0.00
phosphatidylinositol glycan anchor biosynthesis, class S	Pigs	100761041	150.25	148.76	125.25	123.43	115.19	118.61	9932.49	9924.45	8403.96	8220.22	7623.71	7895.15
phosphatidylinositol glycan anchor biosynthesis, class T	Pigt	100765538	133.01	123.49	132.50	115.54	93.11	105.01	8577.48	8037.65	8557.98	7418.25	6136.43	6883.84
phosphatidylinositol glycan anchor biosynthesis, class U	Pigu	100689380	16.68	17.19	18.44	20.77	21.77	19.21	751.18	774.12	848.35	930.61	986.34	875.79
phosphatidylinositol glycan anchor biosynthesis, class W	Pigw	100759511	12.36	12.18	5.66	6.84	8.46	8.03	930.44	925.10	428.52	520.36	633.41	611.27
phosphatidylinositol glycan anchor biosynthesis, class X	Pigx	100761026	56.28	57.08	61.18	61.96	72.42	69.59	1104.37	1148.37	1230.91	1180.94	1420.00	1318.82
phosphatidylinositol glycan anchor biosynthesis, class Y	Pigy	100752710	51.33	43.77	53.91	38.22	23.33	30.92	866.63	747.58	901.76	637.41	409.85	512.20
phosphatidylinositol glycan anchor biosynthesis, class Z	Pigz	100750622	0.17	0.15	0.21	0.19	0.35	0.27	15.95	14.64	26.08	26.66	35.19	27.11
PIH1 domain containing 1	Pih1d1	100772372	23.81	22.34	29.20	25.18	20.68	22.51	811.95	774.12	1006.09	887.73	749.33	812.23
PIH1 domain containing 2	Pih1d2	100773784	4.25	4.38	4.05	3.68	5.13	5.01	147.35	160.13	145.32	126.32	183.19	172.91
PIH1 domain containing 3	Pih1d3	100760708	0.02	0.00	0.00	0.03	0.03	0.08	0.76	0.00	0.00	1.16	1.03	2.80
phosphoinositide-3-kinase adaptor protein 1	Pik3ap1	100764327	0.12	0.19	0.04	0.07	0.07	0.04	15.19	17.39	6.21	8.11	8.28	7.48
phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 alpha	Pik3c2a	100756350	12.16	11.89	11.69	14.42	16.03	15.47	2721.43	2728.63	2643.16	3239.18	3570.70	3423.70
phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta	Pik3c2b	100767102	0.01	0.01	0.00	0.00	0.00	0.01	2.28	0.92	0.00	0.00	0.00	0.93

phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 gamma	Pik3c2g	100754324	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
phosphatidylinositol 3-kinase, catalytic subunit type 3	Pik3c3	100765741	12.77	12.42	11.38	12.98	14.25	13.81	1200.83	1205.10	1083.10	1255.11	1353.76	1314.15
phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha	Pik3ca	100689251	10.16	9.89	10.25	11.83	12.46	11.92	1942.14	1834.64	1958.77	2233.24	2222.12	2218.91
phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta	Pik3cb	100689252	15.55	15.88	8.10	9.43	11.61	11.34	2201.14	2255.56	1161.35	1329.28	1642.52	1600.15
phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta	Pik3cd	100769225	0.02	0.00	0.00	0.00	0.04	0.00	2.28	0.00	0.00	0.00	3.10	0.00
phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma	Pik3cg	100765862	0.27	0.37	0.28	0.31	0.23	0.27	38.74	53.07	39.75	45.20	33.12	40.19
phosphoinositide-3-kinase interacting protein 1	Pik3ip1	100763897	0.44	0.48	0.64	0.95	0.80	0.97	34.18	36.60	53.41	74.17	62.10	81.32
phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	Pik3r1	100750761	3.37	3.37	3.45	4.18	4.36	4.12	537.75	545.36	567.63	658.27	685.16	653.33
phosphoinositide-3-kinase, regulatory subunit 2 (beta)	Pik3r2	100771181	24.29	22.64	22.27	16.80	12.35	12.90	2116.08	2023.14	2003.49	1474.15	1107.44	1136.56
phosphoinositide-3-kinase, regulatory subunit 3 (gamma)	Pik3r3	100774067	1.61	1.57	1.06	1.18	1.41	1.43	224.82	226.93	142.84	176.16	196.65	202.82
phosphoinositide-3-kinase, regulatory subunit 4	Pik3r4	100769548	8.21	8.62	10.41	11.61	12.17	11.55	1127.16	1190.46	1432.13	1573.81	1657.01	1588.00
phosphoinositide-3-kinase, regulatory subunit 5	Pik3r5	100751224	0.15	0.17	0.06	0.04	0.04	0.01	12.91	19.22	3.73	4.64	3.10	1.87
phosphoinositide-3-kinase, regulatory subunit 6	Pik3r6	100751518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
phosphoinositide kinase, FYVE finger containing	Pikfyve	100758487	3.28	3.52	3.69	4.43	5.11	4.86	789.16	851.90	893.06	1048.82	1203.69	1139.36
pim-1 oncogene	Pim1	100751275	42.49	39.51	50.40	51.68	43.94	47.89	1938.34	1832.81	2400.95	2378.10	2153.81	2288.07
pim-2 oncogene	Pim2	100762236	3.06	3.40	2.97	2.73	2.79	2.66	173.93	195.82	167.68	156.45	160.42	149.55
pim-3 oncogene	Pim3	100757447	56.73	54.12	62.80	51.11	35.27	41.65	2040.12	1964.58	2285.44	1838.05	1283.38	1532.86
peptidylprolyl cis/trans isomerase, NIMA-interacting 1	Pin1	100773691	83.70	78.71	84.33	73.10	53.11	57.12	1646.68	1562.88	1553.85	1332.76	1009.11	1075.80
protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	Pin4	100758589	49.43	48.75	43.03	45.59	49.54	46.47	486.86	469.41	439.70	432.28	471.95	508.46
PTEN induced putative kinase 1	Pink1	100757303	20.32	22.01	27.73	21.13	14.49	16.24	839.29	904.97	1148.93	871.51	607.54	681.37
phospholipase A2 inhibitor and LY6/PLAUR domain containing	Pinlyp	100769502	0.24	0.12	0.16	0.15	0.13	0.00	4.56	2.75	2.48	3.48	2.07	0.93
PIN2/TERF1 interacting, telomerase inhibitor 1	Pinx1	100754375	60.85	58.44	53.59	55.21	52.87	50.18	2190.51	2125.62	1930.20	1971.32	1882.64	1800.17
prolactin-induced protein	Pip	100758765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	Pip4k2a	100755254	12.19	13.21	16.52	18.85	18.05	18.59	1167.41	1248.11	1607.26	1788.21	1733.60	1759.05
phosphatidylinositol-5-phosphate 4-kinase, type II, beta	Pip4k2b	100765223	14.28	15.48	13.86	11.24	12.11	11.81	590.16	654.25	563.91	480.95	488.51	499.11
phosphatidylinositol-5-phosphate 4-kinase, type II, gamma	Pip4k2c	100764086	25.11	23.82	25.14	25.29	26.54	27.57	2335.58	2229.02	2364.93	2358.40	2468.44	2562.86

phosphatidylinositol-4-phosphate 5-kinase, type I, alpha	Pip5k1a	100753298	54.12	54.73	56.52	57.68	59.13	60.62	5608.44	5632.03	5799.30	5861.82	5959.45	6169.75
phosphatidylinositol-4-phosphate 5-kinase, type I, gamma	Pip5k1c	100772168	5.18	5.42	5.37	4.93	3.54	3.86	682.07	715.56	719.17	621.18	447.11	491.64
phosphatidylinositol-4-phosphate 5-kinase-like 1	Pip5kl1	100756852	0.89	0.87	0.72	0.61	0.41	0.52	65.32	67.71	58.38	55.63	41.40	53.28
pipecolic acid oxidase	Pipox	100765858	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
pirin (iron-binding nuclear protein)	Pir	100772846	10.10	9.49	11.29	11.57	11.87	11.66	481.55	454.77	534.10	541.22	568.21	557.06
phosphoinositide-interacting regulator of transient receptor potential channels	Pirt	100767819	24.64	24.29	37.04	39.68	50.88	48.95	1510.72	1510.72	2291.65	2474.29	3119.45	3058.24
phosphatidylserine decarboxylase	Pisd	100689093	21.66	20.13	23.54	22.45	20.13	21.49	1257.80	1170.33	1342.70	1299.15	1170.57	1255.26
PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1	Pithd1	100755099	24.09	23.48	34.46	34.70	36.22	37.52	849.92	830.85	1211.03	1196.01	1266.82	1317.88
phosphatidylinositol transfer protein, alpha	Pitpna	100764577	149.28	153.57	152.93	161.38	176.34	172.09	6596.60	6857.26	6763.16	7006.83	7614.39	7478.29
phosphatidylinositol transfer protein, beta	Pitpnb	100772348	81.66	78.54	69.94	75.61	83.03	83.40	6976.37	6852.69	6099.89	6514.29	7117.60	7104.42
phosphatidylinositol transfer protein, cytoplasmic 1	Pitpnc1	100772544	8.33	8.74	12.59	11.77	11.50	12.31	525.60	544.44	762.64	719.69	713.11	756.15
phosphatidylinositol transfer protein, membrane-associated 1	Pitpnm1	100758789	12.96	11.98	16.04	11.26	7.61	8.28	1681.62	1561.05	2078.01	1486.89	1018.43	1110.39
phosphatidylinositol transfer protein, membrane-associated 2	Pitpnm2	100771518	2.47	2.61	2.79	2.23	1.69	1.68	524.84	554.51	602.41	480.95	342.58	355.17
PITPNM family member 3	Pitpnm3	100760116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pitrilysin metallopeptidase 1	Pitrm1	100751021	62.08	62.86	71.18	74.07	77.93	76.06	6110.49	6338.44	7053.81	7276.86	7701.33	7541.85
paired-like homeodomain 1	Pitx1	100762112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paired-like homeodomain 2	Pitx2	100755816	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
paired-like homeodomain 3	Pitx3	100752159	0.23	0.28	0.17	0.08	0.07	0.10	13.67	12.81	8.69	3.48	3.10	4.67
piwi-like RNA-mediated gene silencing 1	Piwil1	100758611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
piwi-like RNA-mediated gene silencing 2	Piwil2	100767809	0.02	0.05	0.04	0.01	0.00	0.02	3.04	4.58	3.73	1.16	0.00	1.87
piwi-like RNA-mediated gene silencing 3	Piwil3	100762152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
piwi-like RNA-mediated gene silencing 4	Piwil4	100754528	0.03	0.05	0.02	0.00	0.01	0.00	4.56	5.49	1.24	0.00	1.03	0.00
praja ring finger 1, E3 ubiquitin protein ligase	Pja1	100767592	40.90	40.27	45.34	42.79	40.35	42.26	2616.61	2585.88	2926.36	2738.53	2566.77	2713.35
praja ring finger 2, E3 ubiquitin protein ligase	Pja2	100756521	105.56	106.31	118.04	125.71	133.17	136.39	13082.30	13245.11	14743.57	15640.78	16436.62	16935.28
polycystic kidney disease 1 (autosomal dominant)	Pkd1	100768622	3.76	3.58	4.50	4.45	4.07	4.31	1598.83	1540.00	1907.85	1887.88	1697.38	1823.54
polycystic kidney disease 1 like 1	Pkd1l1	100754907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
polycystic kidney disease 1-like 2	Pkd1l2	100760644	0.05	0.01	0.00	0.02	0.00	0.00	8.35	2.75	0.00	2.32	0.00	0.00
polycystic kidney disease 1-like 3	Pkd1l3	100760282	0.06	0.03	0.02	0.03	0.05	0.06	16.71	17.39	22.36	23.18	21.73	18.69
polycystic kidney disease 2 (autosomal dominant)	Pkd2	100771469	33.02	32.91	35.50	36.45	44.16	42.69	968.41	1000.13	1038.38	1112.56	1267.86	1266.48
polycystic kidney disease 2-like 1	Pkd2l1	100753844	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
polycystic kidney disease 2-like 2	Pkd2l2	100753206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

protein kinase domain containing, cytoplasmic	Pkdcc	100764428	8.99	8.82	9.50	8.92	5.93	7.20	433.70	425.49	458.33	428.80	286.69	351.44
polycystin (PKD) family receptor for egg jelly	Pkdrej	100758698	0.02	0.00	0.00	0.01	0.01	0.00	3.04	0.92	0.00	1.16	2.07	0.00
polycystic kidney and hepatic disease 1 (autosomal recessive)	Pkhd1	100766925	0.00	0.01	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1	Pkhd1l1	100768621	0.00	0.00	0.00	0.00	0.00	0.00	5.32	5.49	7.45	3.48	7.24	11.22
protein kinase (cAMP-dependent, catalytic) inhibitor alpha	Pkia	100756153	10.95	10.16	10.72	10.52	11.07	10.93	441.29	421.83	445.91	394.03	456.43	443.03
protein kinase (cAMP-dependent, catalytic) inhibitor beta	Pkib	100751859	5.62	5.42	4.00	5.47	5.70	4.98	156.47	140.92	125.45	141.39	159.39	128.98
protein kinase (cAMP-dependent, catalytic) inhibitor gamma	Pkig	100755971	41.35	42.85	43.35	36.43	30.91	35.66	947.90	983.66	942.74	768.36	588.91	687.92
pyruvate kinase, liver and RBC	Pklr	100755461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pyruvate kinase, muscle	Pkm	100751347	1055.97	1039.82	909.40	850.61	767.72	873.08	68243.84	67330.00	58845.11	54122.72	48089.60	55163.27
protein kinase, membrane associated tyrosine/threonine 1	Pkmyt1	100771831	9.56	8.76	11.26	8.41	5.86	5.99	526.36	491.37	619.80	480.95	323.95	333.68
protein kinase N1	Pkn1	100752729	24.76	23.12	25.35	21.97	14.01	17.53	2675.10	2520.00	2740.04	2395.49	1587.67	1918.88
protein kinase N2	Pkn2	100754441	44.41	45.64	43.57	52.13	51.83	47.95	6701.41	6925.89	6615.35	7790.26	7733.42	7231.54
protein kinase N3	Pkn3	100769931	7.55	7.55	7.35	6.32	4.57	5.29	698.78	712.81	707.99	620.02	459.53	531.83
PBX/knotted 1 homeobox 1	Pknox1	100761855	4.82	4.93	5.94	6.15	5.76	6.51	777.77	790.59	958.89	982.76	950.12	1086.09
PBX/knotted 1 homeobox 2	Pknox2	100751965	0.02	0.00	0.00	0.00	0.03	0.00	0.76	0.00	0.00	0.00	2.07	0.00
plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	Pkp1	100764930	0.24	0.09	0.02	0.02	0.00	0.03	20.51	9.15	2.48	1.16	0.00	1.87
plakophilin 2	Pkp2	100751405	1.16	1.24	0.21	0.19	0.21	0.25	98.74	113.46	16.15	17.38	17.59	24.30
plakophilin 3	Pkp3	100757260	7.77	7.98	7.27	5.56	4.27	4.70	666.12	668.89	622.29	468.20	361.21	388.82
plakophilin 4	Pkp4	100757509	18.38	17.87	13.99	14.52	14.02	13.47	2350.77	2351.64	1814.69	1872.81	1799.84	1748.77
phospholipase A1 member A	Pla1a	100759743	0.36	0.26	0.37	0.57	0.51	0.76	22.79	24.71	23.60	35.93	36.22	48.60
phospholipase A2, group X	Pla2g10	100756208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
phospholipase A2, group XIIA	Pla2g12a	100767324	74.54	72.58	83.56	79.59	68.56	82.59	1442.36	1419.22	1755.07	1581.93	1355.83	1588.94
phospholipase A2, group XIIB	Pla2g12b	100758369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group XV	Pla2g15	100760699	10.41	10.87	13.20	12.84	10.74	11.29	906.13	953.46	1158.87	1111.40	923.21	966.45
phospholipase A2, group IB (pancreas)	Pla2g1b	100761323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group IIA (platelets, synovial fluid)	Pla2g2a	100754136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group IIC	Pla2g2c	100756754	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group IID	Pla2g2d	100754712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group IIE	Pla2g2e	100753835	0.13	0.00	0.00	0.00	0.00	0.06	5.32	1.83	0.00	0.00	0.00	1.87
phospholipase A2, group IIF	Pla2g2f	100755005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group III	Pla2g3	100761489	0.00	0.00	0.00	0.03	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.93

phospholipase A2, group IVA (cytosolic, calcium-dependent)	Pla2g4a	100750927	30.88	31.58	39.36	43.15	41.02	42.92	2509.52	2613.34	3244.33	3512.69	3321.27	3435.85
phospholipase A2, group IVC (cytosolic, calcium-independent)	Pla2g4c	100754559	0.15	0.12	0.12	0.17	0.12	0.15	12.15	14.64	11.18	15.07	11.38	13.09
phospholipase A2, group IVD (cytosolic)	Pla2g4d	103158591	1.74	1.87	1.62	1.71	1.05	1.17	166.34	173.86	155.26	155.30	101.43	119.64
phospholipase A2, group IVE	Pla2g4e	100770894	0.04	0.06	0.02	0.02	0.03	0.07	5.32	6.41	1.24	1.16	2.07	5.61
phospholipase A2, group IVF	Pla2g4f	100770605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
phospholipase A2, group V	Pla2g5	100754426	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase A2, group VI (cytosolic, calcium-independent)	Pla2g6	100751421	12.01	11.64	12.97	12.00	9.75	10.49	980.57	945.23	1080.62	974.65	809.36	854.29
phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	Pla2g7	100769497	6.14	5.54	0.18	0.34	0.00	0.00	129.12	114.38	4.97	5.79	0.00	0.00
phospholipase A2 receptor 1, 180kDa	Pla2r1	100768806	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
phospholipase A2-activating protein	Plaa	100766011	32.29	33.81	33.07	38.97	39.57	34.99	2485.21	2583.14	2557.46	2932.07	2996.29	2657.27
placenta-specific 1	Plac1	100767567	2.29	1.91	0.92	0.96	0.59	0.99	71.40	65.88	31.05	28.97	20.70	28.97
placenta-specific 8	Plac8	100754739	50.05	52.12	42.44	40.33	70.41	74.81	938.03	958.96	793.69	735.91	1292.70	1374.90
PLAC8-like 1	Plac8l1	100762432	0.31	0.23	0.10	0.10	0.00	0.08	5.32	4.58	2.48	1.16	0.00	3.74
placenta-specific 9	Plac9	100754984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pleiomorphic adenoma gene 1	Plag1	100755118	0.03	0.05	0.03	0.00	0.04	0.06	2.28	5.49	2.48	0.00	4.14	5.61
pleiomorphic adenoma gene-like 1	Plagl1	100758741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pleiomorphic adenoma gene-like 2	Plagl2	100753721	6.05	5.93	6.38	6.63	5.87	5.99	915.24	896.73	980.01	1011.74	886.98	917.85
plasminogen activator, tissue	Plat	100750775	24.82	24.79	9.78	10.44	9.96	10.31	1885.94	1896.86	737.80	776.48	757.61	780.45
plasminogen activator, urokinase	Plau	100759384	2.57	2.63	0.97	1.53	1.22	1.11	170.90	181.18	73.28	101.98	84.87	81.32
plasminogen activator, urokinase receptor	Plaur	100689422	18.26	20.75	17.80	12.57	8.32	8.52	248.37	288.24	216.12	143.71	92.11	93.47
phospholipase B1	Plb1	100761810	0.08	0.03	0.07	0.14	0.07	0.10	15.95	8.24	16.15	28.97	14.49	22.43
phospholipase B domain containing 1	Plbd1	100754232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase B domain containing 2	Plbd2	100769512	121.93	111.88	143.89	124.64	96.64	111.85	7868.07	7317.52	9412.53	8095.06	6305.14	7249.30
phospholipase C, beta 1 (phosphoinositide-specific)	Plcb1	100751979	3.70	3.89	3.88	4.75	5.09	5.22	753.46	793.33	789.97	961.90	1015.32	1032.81
phospholipase C, beta 2	Plcb2	100760731	0.02	0.00	0.01	0.00	0.00	0.00	4.56	3.66	1.24	0.00	3.10	0.00
phospholipase C, beta 3 (phosphatidylinositol-specific)	Plcb3	100760134	4.85	5.10	5.82	5.25	5.30	5.10	678.27	713.73	819.78	737.07	720.35	720.63
phospholipase C, beta 4	Plcb4	100770957	0.11	0.09	0.00	0.00	0.00	0.00	16.71	16.47	0.00	0.00	0.00	0.00
phospholipase C, delta 1	Plcd1	100751509	5.56	5.85	5.34	4.61	4.09	4.08	443.57	470.33	438.46	370.85	331.20	330.87
phospholipase C, delta 3	Plcd3	100759620	4.83	4.20	3.66	3.38	2.85	2.97	447.37	400.78	361.45	324.50	269.10	283.20
phospholipase C, delta 4	Plcd4	100751872	0.32	0.40	0.32	0.39	0.36	0.47	45.57	43.01	47.20	61.42	50.71	69.17
phospholipase C, epsilon 1	Plce1	100754217	0.69	0.73	0.93	1.16	1.90	1.94	182.29	192.16	237.24	297.84	490.58	497.24
phospholipase C, gamma 1	Plcg1	100769697	65.92	66.14	66.98	69.30	67.56	71.14	9583.87	9606.02	9731.75	9969.03	9705.07	10302.86
phospholipase C, gamma 2 (phosphatidylinositol-specific)	Plcg2	100752475	0.01	0.00	0.00	0.01	0.01	0.00	1.52	0.00	0.00	1.16	1.03	0.00
phospholipase C, eta 1	Plch1	100760460	0.28	0.26	0.32	0.35	0.37	0.30	50.89	53.07	54.65	67.22	67.27	55.15
phospholipase C, eta 2	Plch2	100769053	0.44	0.41	0.68	0.52	0.41	0.48	75.19	72.29	113.03	90.40	70.38	77.58
phospholipase C-like 1	Plcl1	100772560	0.04	0.01	0.01	0.01	0.00	0.01	3.80	0.92	2.48	1.16	0.00	0.93
phospholipase C-like 2	Plcl2	100771671	0.02	0.00	0.00	0.00	0.01	0.00	2.28	2.75	0.00	0.00	1.03	0.00

phosphatidylinositol-specific phospholipase C, X domain containing 2	Plcxd2	100763459	8.10	8.72	8.30	8.54	8.98	9.06	1360.33	1410.07	1525.28	1625.96	1657.01	1704.84
phosphatidylinositol-specific phospholipase C, X domain containing 3	Plcxd3	100766408	0.55	0.48	0.47	0.50	0.65	0.78	21.27	19.22	17.39	23.18	26.91	29.91
phospholipase C, zeta 1	Plcz1	100754031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase D1, phosphatidylcholine-specific	Pld1	100689404	5.34	6.07	5.71	6.36	8.45	8.06	268.12	292.81	300.59	336.09	390.19	404.71
phospholipase D2	Pld2	100752582	0.00	0.01	0.00	0.04	0.00	0.02	29.62	16.47	17.39	17.38	11.38	14.95
phospholipase D family, member 3	Pld3	100763114	32.18	31.03	34.17	24.03	15.55	18.73	1844.16	1763.27	1983.61	1396.50	924.24	1143.10
phospholipase D family, member 4	Pld4	100770231	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
phospholipase D family, member 5	Pld5	100750958	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipase D family, member 6	Pld6	100766800	0.00	0.00	0.00	0.00	0.17	0.00	0.00	1.83	1.24	0.00	1.03	3.74
plectin	Plec	100682530	33.45	33.14	24.14	18.53	13.68	15.01	15427.00	15346.94	11229.71	8614.25	6381.73	7015.63
pleckstrin	Plek	100773128	0.05	0.00	0.00	0.04	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
pleckstrin 2	Plek2	100761631	0.24	0.23	0.07	0.07	0.19	0.15	12.15	12.81	2.48	2.32	9.31	8.41
pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1	Plekha1	100762379	10.82	10.68	8.29	9.41	10.28	10.40	988.92	980.00	785.00	901.64	966.68	993.55
pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2	Plekha2	100773875	5.29	5.74	3.47	3.76	4.03	4.16	779.29	848.24	503.05	555.12	588.91	615.01
pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3	Plekha3	100766979	51.98	54.75	74.73	71.86	71.67	70.64	2805.74	2927.19	3989.58	3849.93	3774.60	3771.39
pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	Plekha4	100752943	0.02	0.03	0.02	0.00	0.00	0.00	2.28	2.75	1.24	1.16	0.00	0.00
pleckstrin homology domain containing, family A member 5	Plekha5	100766035	16.74	15.17	17.99	17.41	18.16	19.20	1812.26	1686.41	2007.21	1927.28	2026.50	2146.00
pleckstrin homology domain containing, family A member 6	Plekha6	100767864	0.09	0.10	0.00	0.00	0.00	0.00	19.75	21.96	0.00	0.00	1.03	0.00
pleckstrin homology domain containing, family A member 7	Plekha7	100755763	0.39	0.46	0.01	0.03	0.00	0.00	60.76	71.37	2.48	4.64	0.00	0.93
pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8	Plekha8	100759631	8.26	8.00	8.97	11.77	13.07	11.02	974.49	946.14	1110.43	1267.86	1422.07	1387.05
pleckstrin homology domain containing, family B (evectins) member 1	Plekhb1	100759842	0.56	0.60	0.76	0.94	0.60	0.36	31.14	32.94	42.23	53.31	40.36	25.24
pleckstrin homology domain containing, family B (evectins) member 2	Plekhb2	100770793	40.11	39.55	44.88	45.73	47.92	47.70	3805.29	3797.39	4295.14	4339.00	4522.89	4536.89
pleckstrin homology domain containing, family D (with coiled-coil domains) member 1	Plekhd1	100757856	0.11	0.00	0.03	0.00	0.03	0.02	5.32	0.92	2.48	2.32	3.10	0.93
pleckstrin homology domain containing, family F (with FYVE domain) member 1	Plekhf1	100753659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pleckstrin homology domain containing, family F (with FYVE domain) member 2	Plekhf2	100760693	4.41	4.91	3.66	4.91	5.22	4.81	168.62	186.67	134.15	178.47	191.47	178.52

pleckstrin homology domain containing, family G (with RhoGef domain) member 1	Plekhg1	100767054	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
pleckstrin homology domain containing, family G (with RhoGef domain) member 2	Plekhg2	100761461	6.49	6.11	6.17	5.02	4.42	4.58	885.62	833.60	847.10	687.24	601.33	626.23
pleckstrin homology domain containing, family G (with RhoGef domain) member 3	Plekhg3	100765328	6.38	6.38	6.40	5.67	4.96	5.32	963.86	960.79	953.92	826.31	743.12	824.38
pleckstrin homology domain containing, family G (with RhoGef domain) member 4	Plekhg4	100766436	0.11	0.15	0.10	0.05	0.08	0.12	15.19	21.96	12.42	5.79	10.35	15.89
pleckstrin homology domain containing, family G (with RhoGef domain) member 5	Plekhg5	100755823	3.00	3.09	3.27	2.38	1.73	2.07	389.64	405.36	442.18	317.54	229.77	247.69
pleckstrin homology domain containing, family G (with RhoGef domain) member 6	Plekhg6	100751119	0.02	0.04	0.00	0.04	0.05	0.06	3.80	4.58	0.00	4.64	6.21	5.61
pleckstrin homology domain containing, family G (with RhoGef domain) member 7	Plekhg7	103162196	0.00	0.00	0.05	0.00	0.00	0.04	0.00	1.83	1.24	0.00	0.00	1.87
pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	Plekhh1	100761047	1.42	1.28	1.67	1.86	1.82	1.81	230.90	215.03	283.20	295.52	271.17	289.75
pleckstrin homology domain containing, family H (with MyTH4 domain) member 2	Plekhh2	100760655	0.01	0.00	0.03	0.02	0.02	0.00	3.80	0.00	3.73	3.48	3.10	0.93
pleckstrin homology domain containing, family H (with MyTH4 domain) member 3	Plekhh3	100759719	7.42	6.97	4.67	2.29	1.54	1.55	682.83	665.23	443.43	219.04	159.39	155.16
pleckstrin homology domain containing, family J member 1	Plekhj1	100759711	3.24	2.93	4.74	3.76	3.74	4.07	259.76	236.08	337.85	308.27	322.92	333.68
pleckstrin homology domain containing, family M (with RUN domain) member 1	Plekhm 1	100766166	27.99	25.90	9.67	10.30	8.10	9.42	4079.49	3775.43	1437.09	1517.03	1178.85	1386.12
pleckstrin homology domain containing, family M (with RUN domain) member 2	Plekhm 2	100770785	12.23	11.84	12.38	11.41	8.30	9.32	1318.56	1288.37	1343.94	1266.70	913.89	1015.99
pleckstrin homology domain containing, family M, member 3	Plekhm 3	100760707	2.56	2.24	2.17	2.41	2.62	2.49	262.80	237.91	227.30	249.17	265.99	262.64
pleckstrin homology domain containing, family N member 1	Plekhn1	100772995	1.80	1.60	1.90	2.30	2.60	2.55	196.72	167.45	216.12	248.01	300.15	283.20
pleckstrin homology domain containing, family O member 1	Plekho1	100750946	9.79	9.71	12.78	9.92	6.98	6.39	426.86	428.24	563.91	429.96	298.08	291.62
pleckstrin homology domain containing, family O member 2	Plekho2	100752155	16.66	17.39	16.26	15.08	13.35	14.63	1513.76	1601.31	1506.65	1375.64	1247.16	1346.86
pleckstrin homology domain containing, family S member 1	Plekhs1	100751399	0.00	0.00	0.03	0.03	0.00	0.00	0.00	3.66	4.97	8.11	7.24	4.67
placenta expressed transcript 1	Plet1	100751053	1.83	1.42	0.65	0.88	0.30	0.31	139.00	113.46	48.44	66.06	22.77	21.50
plasminogen	Plg	100761455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
plasminogen receptor, C-terminal lysine transmembrane protein	Plgrkt	100758605	17.78	18.89	17.37	18.32	21.69	21.11	435.22	441.05	417.34	440.39	548.54	500.05
perilipin 1	Plin1	100761885	0.05	0.09	0.02	0.00	0.00	0.00	3.80	7.32	2.48	2.32	0.00	0.00
perilipin 2	Plin2	100756213	232.68	230.94	175.65	179.86	160.03	169.64	11967.30	11914.65	9108.22	9134.61	8110.15	8629.81

perilipin 3	Plin3	100758170	15.38	13.79	13.28	9.47	5.15	6.20	693.46	605.75	597.44	434.59	244.26	300.96
perilipin 4	Plin4	100768515	2.24	2.14	1.54	1.28	1.37	1.50	331.16	339.48	234.75	215.56	213.21	228.06
polo-like kinase 1	Plk1	100760676	42.90	42.91	39.61	38.16	34.40	35.52	2682.69	2693.86	2469.27	2388.53	2125.86	2233.86
polo-like kinase 2	Plk2	100753472	111.64	115.75	129.54	138.13	143.63	140.17	9292.20	9815.56	10909.25	11476.78	11960.30	11588.03
polo-like kinase 3	Plk3	100762491	5.89	5.85	6.66	5.52	4.54	4.71	401.80	394.38	439.70	390.56	331.20	329.94
polo-like kinase 4	Plk4	100774595	23.17	22.08	20.07	24.47	21.77	19.30	2348.50	2277.52	2079.25	2528.76	2232.47	2022.63
polo-like kinase 5	Plk5	100757116	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
plasmolipin	Pllp	100760003	0.53	0.64	0.43	0.61	0.59	0.53	29.62	31.11	28.57	27.81	27.94	30.84
phospholamban	Pln	100762952	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1	Plod1	100763844	43.29	41.55	34.37	30.33	22.52	25.35	2918.91	2900.66	2402.20	2062.88	1566.97	1724.47
procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2	Plod2	100762939	20.29	22.64	11.68	12.96	14.39	12.62	1823.65	2046.93	1086.83	1156.60	1292.70	1145.91
proteolipid protein 1	Plp1	100766346	0.73	0.71	0.60	0.76	0.84	0.66	83.55	98.82	81.98	95.03	91.08	71.97
proteolipid protein 2 (colonic epithelium-enriched)	Plp2	100758858	155.44	153.97	158.41	152.49	178.20	185.03	4722.06	4735.30	4846.62	4626.41	5410.91	5606.15
pleiotropic regulator 1	Plrg1	100773980	50.42	51.07	48.19	51.50	54.73	55.66	2654.59	2696.60	2518.95	2649.29	2819.30	2863.83
plastin 1	Pls1	100760536	0.02	0.02	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
plastin 3	Pls3	100689375	90.30	94.04	91.87	112.42	119.26	108.34	8089.09	8498.83	8336.89	10039.72	10637.59	9684.11
phospholipid scramblase 2	Plscr2	100763512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipid scramblase 3	Plscr3	100759961	26.41	26.14	29.78	27.13	24.39	25.36	1283.62	1306.67	1443.30	1278.29	1120.89	1196.38
phospholipid scramblase 4	Plscr4	100763227	10.24	10.60	4.73	5.51	7.77	6.57	631.18	651.50	290.65	332.61	487.48	410.32
phospholipid scramblase family, member 5	Plscr5	100762648	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phospholipid transfer protein	Pltp	100771770	27.26	24.02	35.43	31.51	25.20	30.48	1579.84	1441.18	2063.11	1810.23	1501.77	1776.81
plasmalemma vesicle associated protein	Plvap	100751056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
plexin domain containing 1	Plxdc1	100766681	0.07	0.06	0.03	0.00	0.00	0.04	6.08	8.24	2.48	0.00	1.03	2.80
plexin domain containing 2	Plxdc2	100751934	0.02	0.02	0.00	0.02	0.00	0.00	1.52	0.92	1.24	1.16	0.00	0.00
plexin A1	Plxna1	100760933	13.68	13.09	11.88	10.20	7.93	8.75	3390.58	3317.91	3030.69	2587.87	2005.80	2192.74
plexin A2	Plxna2	100763940	4.43	4.23	5.88	5.71	5.27	5.48	1010.95	1015.69	1340.21	1328.12	1217.14	1279.56
plexin A3	Plxna3	100761215	2.06	2.01	2.50	2.40	1.87	1.97	433.70	422.75	504.29	505.29	383.98	412.19
plexin A4	Plxna4	100753940	7.72	7.66	2.59	2.57	3.04	3.25	1062.60	1096.21	367.66	343.04	438.83	470.14
plexin B1	Plxnb1	100762729	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	3.48	1.03	0.93
plexin B2	Plxnb2	100754620	39.33	39.40	55.07	55.43	46.75	48.91	3960.24	3976.74	5549.64	5364.64	4504.26	4768.68
plexin B3	Plxnb3	100752040	0.00	0.00	0.00	0.00	0.00	0.01	0.76	1.83	0.00	0.00	0.00	0.93
plexin C1	Plxnc1	100766140	0.10	0.07	0.05	0.05	0.05	0.04	21.27	16.47	14.91	13.91	13.45	12.15
plexin D1	Plxnd1	100773048	6.51	5.87	6.39	5.57	4.46	5.06	1130.95	1084.31	1161.35	1002.47	770.03	882.33
peptidase M20 domain containing 1	Pm20d1	100761356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peptidase M20 domain containing 2	Pm20d2	100771446	2.43	2.15	0.85	1.28	1.54	0.94	100.26	96.08	38.50	54.47	60.03	49.54
phorbol-12-myristate-13-acetate-induced protein 1	Pmaip1	100755393	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pro-melanin-concentrating hormone	Pmch	100770992	1.20	1.21	0.66	1.27	1.77	1.52	50.13	62.22	34.78	66.06	61.06	53.28
premelanosome protein	Pmel	100769117	0.03	0.00	0.08	0.13	0.02	0.00	3.04	0.92	4.97	6.95	2.07	1.87
prostate transmembrane protein, androgen induced 1	Pmepa1	100762220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

polyamine modulated factor 1 binding protein 1	Pmfbp1	100760575	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	2.07	0.00
promyelocytic leukemia	Pml	100757598	8.63	9.23	9.66	8.24	6.46	7.73	889.42	935.16	1004.85	898.16	714.14	802.88
phosphomannomutase 2	Pmm2	100765196	20.05	20.98	20.60	21.43	20.40	21.10	1340.59	1423.79	1412.25	1452.13	1400.34	1450.61
peripheral myelin protein 2	Pmp2	100761100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peripheral myelin protein 22	Pmp22	100762867	18.95	21.32	16.69	16.11	22.62	23.60	805.11	895.82	704.26	672.17	941.84	977.66
peptidase (mitochondrial processing) alpha	Pmpca	100761595	85.61	87.13	105.57	103.62	85.35	91.34	4274.69	4323.53	5276.38	5050.57	4197.90	4432.20
peptidase (mitochondrial processing) beta	Pmpcb	100757021	73.92	77.33	65.82	70.73	80.94	72.58	3645.79	3836.74	3274.14	3439.67	3918.46	3526.51
PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	Pms1	100751321	13.17	12.94	12.93	14.98	17.26	14.88	973.73	954.38	965.10	1094.02	1275.10	1091.69
PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	Pms2	100755917	9.95	9.95	10.09	11.51	13.01	13.48	969.93	987.32	1003.61	1132.26	1251.30	1309.47
phosphomevalonate kinase	Pmvk	100759992	17.66	17.81	19.26	20.21	12.96	15.98	536.99	546.28	591.23	610.75	388.12	486.03
pregnancy up-regulated nonubiquitous CaM kinase	Pnck	100770734	0.00	0.03	0.04	0.00	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
PNN-interacting serine/arginine-rich protein	Pnisr	100763778	8.75	8.41	7.64	8.22	9.35	8.21	1247.16	1197.78	1091.79	1198.32	1334.10	1216.01
paroxysmal nonkinesigenic dyskinesia	Pnkd	100750526	6.38	6.75	5.35	4.04	3.09	3.09	522.56	542.61	439.70	330.29	250.47	254.23
polynucleotide kinase 3'-phosphatase	Pnkp	100767996	15.75	15.11	17.56	16.76	12.68	14.25	1042.09	966.28	1138.99	1082.43	846.62	914.11
poly(A)-specific ribonuclease (PARN)-like domain containing 1	Pnldc1	100762328	0.02	0.02	0.00	0.00	0.05	0.02	0.76	0.92	0.00	0.00	2.07	0.93
pancreatic lipase-related protein 1	Pnliprp1	100750935	2.63	2.55	4.61	4.82	3.79	4.19	591.68	581.05	1176.26	1147.33	983.24	1077.67
pancreatic lipase-related protein 2	Pnliprp2	100758718	0.02	0.05	0.03	0.06	0.00	0.00	9.11	4.58	1.24	3.48	0.00	0.00
paraneoplastic Ma antigen 1	Pnma1	100774597	0.03	0.00	0.10	0.05	0.00	0.00	0.76	0.00	2.48	1.16	0.00	0.00
paraneoplastic Ma antigen 2	Pnma2	100759435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paraneoplastic Ma antigen family member 5	Pnma5	100763839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paraneoplastic Ma antigen family member 6A	Pnma6a	100758339	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phenylethanolamine N-methyltransferase	Pnmt	100768410	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	1.16	0.00	0.00
pinin, desmosome associated protein	Pnn	100758240	37.76	38.50	32.81	36.48	36.75	32.66	2392.55	2412.94	2096.64	2325.95	2314.23	2066.55
partner of NOB1 homolog (S. cerevisiae)	Pno1	100750394	57.07	56.23	50.22	49.14	52.67	50.76	2175.32	2177.78	1963.74	1870.50	2023.40	1930.09
prepronociceptin	Pnoc	100772011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
purine nucleoside phosphorylase	Pnp	100757729	42.95	42.27	60.17	63.22	73.12	72.12	1543.38	1537.26	2155.02	2230.92	2595.75	2570.34
patatin-like phospholipase domain containing 1	Pnpla1	100763234	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
patatin-like phospholipase domain containing 2	Pnpla2	100753746	15.09	14.10	17.95	16.60	13.42	15.33	874.23	811.63	1028.45	935.25	767.96	871.11
patatin-like phospholipase domain containing 3	Pnpla3	100768979	0.01	0.01	0.00	0.04	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
patatin-like phospholipase domain containing 5	Pnpla5	100772895	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
patatin-like phospholipase domain containing 6	Pnpla6	100771798	9.88	9.33	10.08	8.64	6.30	7.25	1314.76	1270.07	1387.41	1149.65	858.00	972.99
patatin-like phospholipase domain containing 7	Pnpla7	100753361	2.02	2.09	1.99	2.15	2.34	2.03	322.80	337.65	316.73	343.04	383.98	319.66

patatin-like phospholipase domain containing 8	Pnpla8	100763368	17.97	16.81	15.97	17.90	20.27	19.12	1734.79	1640.66	1562.55	1766.19	1953.02	1867.47
pyridoxamine 5'-phosphate oxidase	Pnpo	100753308	29.70	27.69	16.86	17.55	19.39	20.64	1608.70	1538.17	917.90	965.38	1051.55	1127.21
polyribonucleotide nucleotidyltransferase 1	Pnpt1	100766803	30.90	29.22	28.82	32.65	35.40	34.22	2757.89	2678.30	2593.48	2897.30	3153.60	2965.71
proline-rich nuclear receptor coactivator 1	Pnrc1	100771158	7.89	8.30	10.37	9.18	10.23	10.41	212.67	220.52	279.47	250.33	271.17	281.34
proline-rich nuclear receptor coactivator 2	Pnrc2	100753045	61.69	61.00	65.74	68.64	75.17	70.23	3292.60	3259.35	3520.07	3641.33	3962.96	3742.42
POC1 centriolar protein B	Poc1b	100765537	3.12	3.33	3.13	3.40	4.16	3.43	245.33	255.29	254.63	267.71	330.16	285.07
POC5 centriolar protein	Poc5	100772693	12.82	13.33	14.15	14.74	15.75	14.27	1217.54	1267.32	1347.66	1388.39	1486.24	1358.08
podocan	Podn	100773075	0.02	0.00	0.03	0.00	0.00	0.00	0.76	0.92	1.24	0.00	0.00	0.00
podocan-like 1	Podnl1	100759324	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.92	0.00	0.00	0.00	1.87
podocalyxin-like	Podxl	100754237	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	3.48	0.00	0.00
podocalyxin-like 2	Podxl2	100768042	0.08	0.06	0.13	0.03	0.05	0.06	15.95	10.98	19.87	3.48	5.17	8.41
premature ovarian failure, 1B	Pof1b	100773852	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein O-fucosyltransferase 1	Pofut1	100753417	54.21	54.15	51.30	50.22	43.76	46.67	4991.69	5008.89	4767.13	4625.25	4033.34	4312.57
protein O-fucosyltransferase 2	Pofut2	100765129	37.71	35.37	42.72	39.02	36.90	39.18	2167.72	2048.76	2470.51	2242.51	2103.09	2241.34
pogo transposable element with KRAB domain	Pogk	100769000	10.33	10.04	10.64	10.74	11.04	11.96	1431.73	1397.26	1459.45	1536.73	1592.84	1672.12
protein O-glucosyltransferase 1	Poglut1	100760325	20.28	18.25	19.48	20.69	23.10	21.49	1711.24	1575.69	1675.58	1752.29	1947.84	1817.93
pogo transposable element with ZNF domain	Pogz	100771470	13.50	12.59	12.95	14.10	13.72	13.41	2331.03	2190.59	2250.66	2425.62	2373.22	2331.07
polymerase (DNA directed), alpha 1, catalytic subunit	Pola1	100758493	14.89	14.97	16.50	19.54	19.68	18.65	2248.24	2269.28	2542.55	2913.52	2952.82	2762.88
polymerase (DNA directed), alpha 2, accessory subunit	Pola2	100768307	7.33	7.81	9.24	9.53	10.55	10.26	537.75	599.35	715.44	710.42	815.57	768.30
polymerase (DNA directed), beta	Polb	100774965	21.46	22.57	21.44	24.25	23.10	25.27	795.24	854.64	830.96	866.87	883.88	939.34
polymerase (DNA directed), delta 1, catalytic subunit	Pold1	100773935	24.59	24.53	32.25	23.88	18.12	19.28	2572.56	2578.56	3383.44	2466.18	1870.22	1995.52
polymerase (DNA directed), delta 2, accessory subunit	Pold2	100762815	55.71	51.62	55.90	51.01	39.80	45.21	2536.10	2394.64	2608.38	2359.56	1859.87	2084.31
polymerase (DNA-directed), delta 3, accessory subunit	Pold3	100756090	21.44	21.71	24.95	27.78	28.61	27.48	2010.50	2057.00	2340.09	2575.12	2660.95	2562.86
polymerase (DNA-directed), delta 4, accessory subunit	Pold4	100761682	42.65	42.66	47.18	39.72	36.98	38.52	945.63	950.72	1016.03	861.08	786.59	822.51
polymerase (DNA-directed), delta interacting protein 2	Poldip2	100767910	53.47	51.43	54.09	55.83	56.57	55.49	2999.42	2854.90	3067.95	3107.06	3091.50	3096.56
polymerase (DNA-directed), delta interacting protein 3	Poldip3	100751957	52.11	50.22	67.68	63.27	55.44	62.34	2570.28	2522.75	3420.71	3255.41	2798.60	3241.43
polymerase (DNA directed), epsilon, catalytic subunit	Pole	100774671	12.24	12.57	12.54	13.79	14.22	13.98	2698.64	2758.83	2788.48	3013.19	3126.69	3034.87
polymerase (DNA directed), epsilon 2, accessory subunit	Pole2	100754280	4.22	4.76	5.23	5.78	7.01	6.85	357.74	392.55	450.88	477.47	602.36	534.63
polymerase (DNA directed), epsilon 3, accessory subunit	Pole3	100752018	47.19	49.60	53.95	50.52	49.93	53.42	1369.45	1425.62	1545.16	1428.95	1437.60	1532.86
polymerase (DNA-directed), epsilon 4, accessory subunit	Pole4	103163165	1.05	1.48	1.31	0.97	0.52	0.44	15.95	25.62	22.36	12.75	8.28	7.48
polymerase (DNA directed), gamma	Polg	100755501	21.40	21.05	12.24	11.88	10.44	11.14	2640.92	2656.34	1586.14	1530.93	1319.61	1414.16
polymerase (DNA directed), gamma 2, accessory subunit	Polg2	100774291	4.53	4.13	5.48	5.10	5.39	5.46	226.34	223.27	262.08	254.96	268.06	280.40

polymerase (DNA directed), eta	Polh	100758244	9.82	10.36	9.91	10.87	12.26	12.85	829.42	883.01	837.17	901.64	1015.32	1085.15
polymerase (DNA directed) iota	Poli	100757066	6.33	6.28	5.93	6.46	8.36	7.64	442.05	452.03	428.52	447.34	581.66	535.57
polymerase (DNA directed) kappa	Polk	100758099	14.82	15.36	15.39	16.48	20.61	17.85	974.49	1005.62	1009.82	1054.62	1336.17	1170.21
polymerase (DNA directed), lambda	Poll	100751096	14.45	13.76	16.29	14.15	10.30	13.11	985.12	937.91	1119.12	979.29	719.32	895.41
polymerase (DNA directed), mu	Polm	100762233	2.47	2.16	2.38	2.44	1.79	2.42	195.96	182.09	204.94	194.70	144.90	185.06
polymerase (DNA directed), theta	Polq	100764158	1.54	1.67	1.70	1.97	2.52	2.02	387.37	420.00	433.49	496.02	630.31	526.22
polymerase (RNA) I polypeptide A, 194kDa	Polr1a	100767957	34.09	33.09	27.85	29.04	24.30	26.08	3577.43	3501.83	2981.01	3015.51	2518.12	2656.33
polymerase (RNA) I polypeptide B, 128kDa	Polr1b	100769834	17.47	16.64	16.79	16.73	16.42	16.94	2106.96	1999.35	1999.76	1950.46	1898.16	1947.85
polymerase (RNA) I polypeptide C, 30kDa	Polr1c	100758205	51.13	50.04	51.89	52.74	51.88	50.68	1942.90	1920.66	1960.01	1982.91	1937.49	1928.22
polymerase (RNA) I polypeptide E, 53kDa	Polr1e	100751282	16.46	16.86	18.20	17.55	18.03	19.23	769.41	794.25	857.04	811.24	833.16	888.87
polymerase (RNA) II (DNA directed) polypeptide A, 220kDa	Polr2a	100689016	38.30	37.64	39.94	39.51	36.98	39.17	7435.13	7403.54	7960.53	7758.97	7221.10	7654.94
polymerase (RNA) II (DNA directed) polypeptide B, 140kDa	Polr2b	100755901	33.87	33.82	34.17	36.61	40.37	39.22	3803.77	3874.25	3879.04	4123.44	4574.64	4351.82
polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	Polr2c	100765460	95.91	92.83	104.46	108.49	104.60	112.78	4243.55	4161.57	4713.72	4764.32	4575.67	4886.45
polymerase (RNA) II (DNA directed) polypeptide D	Polr2d	100755604	26.03	26.17	28.60	30.33	29.87	32.84	647.89	679.87	736.56	797.34	758.64	844.94
polymerase (RNA) II (DNA directed) polypeptide E, 25kDa	Polr2e	100754513	67.74	63.81	61.66	52.91	43.45	48.15	3123.98	2949.15	2973.56	2542.67	1992.35	2225.45
polymerase (RNA) II (DNA directed) polypeptide F	Polr2f	100754156	248.81	242.66	263.04	223.23	175.55	182.24	3145.25	3084.58	3246.81	2692.17	2208.66	2244.14
polymerase (RNA) II (DNA directed) polypeptide G	Polr2g	100754072	79.10	77.14	83.16	84.77	85.84	93.31	2517.87	2470.59	2677.94	2665.52	2704.42	2878.78
polymerase (RNA) II (DNA directed) polypeptide H	Polr2h	100769706	52.67	50.17	61.88	63.35	57.30	65.40	1187.92	1145.62	1406.04	1390.70	1295.80	1447.80
polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa	Polr2j	100766101	66.47	72.38	72.09	67.68	64.40	62.04	1013.98	1043.14	1070.68	1007.10	998.76	991.68
polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa	Polr2k	100762645	49.94	52.05	53.97	57.91	51.99	52.88	627.38	638.69	664.52	650.15	581.66	598.19
polymerase (RNA) II (DNA directed) polypeptide L, 7.6kDa	Polr2l	100754830	37.39	38.30	47.47	31.45	25.90	29.96	865.87	892.16	1109.18	712.74	582.70	674.83
polymerase (RNA) II (DNA directed) polypeptide M	Polr2m	100771441	120.98	123.09	133.79	130.59	134.88	134.46	7222.46	7328.50	8022.64	7762.45	7975.60	8003.58
polymerase (RNA) III (DNA directed) polypeptide A, 155kDa	Polr3a	100753811	13.83	14.21	13.50	13.79	12.82	14.73	1730.99	1764.18	1705.39	1702.45	1622.86	1821.67
polymerase (RNA) III (DNA directed) polypeptide B	Polr3b	100759724	20.49	20.08	19.16	20.95	20.37	18.98	2832.32	2775.30	2666.76	2876.44	2775.83	2624.55
polymerase (RNA) III (DNA directed) polypeptide C (62kD)	Polr3c	100752999	40.36	38.93	40.36	42.74	43.27	42.54	2448.75	2369.94	2433.25	2571.64	2690.96	2575.02
polymerase (RNA) III (DNA directed) polypeptide D, 44kDa	Polr3d	100767520	39.39	40.07	36.58	37.18	33.62	35.82	2166.97	2221.70	2040.75	2017.68	1843.31	1973.09
polymerase (RNA) III (DNA directed) polypeptide E (80kD)	Polr3e	100764912	31.16	29.67	30.09	29.58	21.23	22.99	2684.21	2617.91	2701.54	2564.69	1907.48	2011.41
polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa	Polr3f	100766844	25.98	27.34	26.37	30.94	32.39	31.69	2342.42	2486.15	2407.16	2766.34	2915.56	2853.55
polymerase (RNA) III (DNA directed) polypeptide G (32kD)	Polr3g	100767472	18.65	18.27	17.02	18.73	16.23	16.46	1560.85	1541.83	1442.06	1565.70	1352.73	1378.64
polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like	Polr3gl	100755742	23.48	25.46	31.10	31.56	32.33	31.51	929.68	1013.86	1193.65	1183.26	1196.44	1180.49

polymerase (RNA) III (DNA directed) polypeptide H (22.9kD)	Polr3h	100759490	41.94	38.45	39.86	35.74	29.29	35.03	1366.41	1309.41	1468.15	1323.49	1139.52	1330.97
polymerase (RNA) mitochondrial (DNA directed)	Polrmt	100762430	17.68	17.23	17.64	12.42	7.69	8.34	2053.03	2042.35	2082.98	1467.19	932.52	1015.05
POM121 transmembrane nucleoporin-like 2	Pom121l2	100767897	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.92	1.24	3.48	0.00	1.87
proopiomelanocortin	Pomc	100756311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)	Pomgnt1	100772511	40.30	37.72	43.25	40.61	34.92	37.61	3160.44	3003.14	3430.64	3160.37	2752.03	2961.97
protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-)	Pomgnt2	100770708	3.89	3.87	4.39	2.34	1.70	1.65	296.98	296.47	339.09	178.47	133.51	128.98
protein-O-mannose kinase	Pomk	100771074	5.91	6.13	6.53	7.07	7.76	6.73	309.13	317.52	337.85	355.79	398.47	366.39
proteasome maturation protein	Pomp	100756796	240.28	231.59	211.96	228.25	238.40	262.75	3767.31	3766.28	3415.74	3566.00	3702.15	3928.42
protein-O-mannosyltransferase 1	Pomt1	100755033	7.35	7.97	8.39	8.54	7.20	7.34	697.26	733.86	796.18	797.34	681.02	690.72
protein-O-mannosyltransferase 2	Pomt2	100764752	4.05	4.09	4.25	4.93	4.62	4.69	527.88	529.80	558.94	625.82	607.54	613.14
paraoxonase 1	Pon1	100762244	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paraoxonase 2	Pon2	100762539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paraoxonase 3	Pon3	100762826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
processing of precursor 1, ribonuclease P/MRP subunit (S. cerevisiae)	Pop1	100754990	4.78	5.01	4.54	4.37	3.73	3.60	476.99	509.67	439.70	445.03	383.98	376.67
processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)	Pop4	100752792	20.71	22.33	20.70	20.64	22.29	21.77	1099.81	1190.46	1115.39	1081.27	1187.13	1130.02
processing of precursor 5, ribonuclease P/MRP subunit (S. cerevisiae)	Pop5	100754888	43.86	42.60	51.85	54.86	54.66	53.61	1477.30	1433.86	1760.04	1805.60	1818.47	1793.63
processing of precursor 7, ribonuclease P/MRP subunit (S. cerevisiae)	Pop7	100753663	53.81	51.09	50.94	38.16	31.83	30.90	846.89	802.48	798.66	587.57	491.62	481.35
popeye domain containing 2	Popdc2	100760618	0.07	0.09	0.03	0.03	0.00	0.02	3.80	4.58	1.24	2.32	0.00	2.80
popeye domain containing 3	Popdc3	100769896	0.02	0.06	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.00
P450 (cytochrome) oxidoreductase	Por	100689241	17.14	16.54	15.01	11.41	9.33	11.07	486.11	494.12	470.75	360.42	323.95	329.00
porcupine homolog (Drosophila)	Porcn	100765928	5.26	4.76	5.01	5.00	3.00	3.70	289.38	262.61	281.95	271.19	165.60	200.95
periostin, osteoblast specific factor	Postn	100770667	0.12	0.11	0.31	0.27	0.15	0.13	10.63	9.15	26.08	24.34	13.45	12.15
protection of telomeres 1	Pot1	100758846	15.65	15.84	17.22	18.62	21.19	20.36	1308.69	1341.44	1456.97	1540.20	1743.95	1660.91
POU class 1 homeobox 1	Pou1f1	100773365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POU class 2 associating factor 1	Pou2af1	100770131	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
POU class 2 homeobox 1	Pou2f1	100767850	2.79	2.57	2.60	2.67	2.98	3.01	385.09	361.44	371.38	387.08	413.99	453.31
POU class 2 homeobox 2	Pou2f2	100757341	0.48	0.26	0.48	0.29	0.36	0.26	56.97	60.39	86.95	68.38	51.75	54.21
POU class 2 homeobox 3	Pou2f3	100764501	0.07	0.07	0.00	0.00	0.00	0.00	5.32	2.75	0.00	0.00	0.00	0.00
POU class 3 homeobox 4	Pou3f4	100756260	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
POU class 5 homeobox 1	Pou5f1	100754998	0.03	0.03	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
POU domain class 5, transcription factor 2	Pou5f2	100751783	0.00	0.04	0.00	0.05	0.00	0.04	0.76	0.92	0.00	1.16	0.00	0.93
POU class 6 homeobox 1	Pou6f1	103160795	2.89	2.60	3.13	3.05	2.80	2.78	371.41	332.16	417.34	397.51	347.76	348.63

POU class 6 homeobox 2	Pou6f2	100768772	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 2C-like domain containing 1	Pp2d1	100774567	0.32	0.23	0.20	0.23	0.40	0.25	25.82	15.56	16.15	20.86	33.12	22.43
pyrophosphatase (inorganic) 1	Ppa1	100769185	174.37	172.59	194.53	192.10	192.90	198.46	6266.20	6257.00	7028.97	6737.96	6817.45	6977.31
phosphatidic acid phosphatase type 2A	Ppap2a	100771106	20.87	21.52	29.56	29.87	38.54	34.62	695.74	721.05	991.19	979.29	1263.72	1156.19
phosphatidic acid phosphatase type 2B	Ppap2b	100774527	7.01	7.44	4.52	4.66	5.87	5.20	552.94	598.43	365.17	369.70	475.06	423.41
phosphatidic acid phosphatase type 2C	Ppap2c	100774295	47.98	45.60	51.86	40.27	29.66	35.09	2171.52	2096.34	2373.63	1832.25	1325.82	1580.53
phosphatidic acid phosphatase type 2 domain containing 1B	Ppapdc 1b	100772808	6.43	6.14	8.27	7.67	7.92	8.20	277.99	269.93	363.93	333.77	340.51	346.76
phosphatidic acid phosphatase type 2 domain containing 2	Ppapdc 2	103162885	10.45	11.45	10.09	10.62	10.42	10.59	356.98	398.95	393.74	414.89	446.08	480.42
phosphatidic acid phosphatase type 2 domain containing 3	Ppapdc 3	100751688	4.78	4.04	2.84	2.71	2.13	2.58	248.37	210.46	150.29	139.07	112.81	133.66
peroxisome proliferator-activated receptor alpha	Ppara	100758990	2.23	2.49	2.45	2.52	2.84	3.07	387.37	434.64	431.00	428.80	483.34	542.11
peroxisome proliferator-activated receptor delta	Ppard	100755002	37.12	36.17	33.18	24.27	15.61	18.12	3351.09	3284.06	3031.93	2192.68	1395.16	1631.00
peroxisome proliferator-activated receptor gamma	Pparg	100689245	74.42	76.25	41.53	44.88	54.77	52.42	3016.13	3174.25	1738.92	1832.25	2199.35	2079.64
peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	Ppargc1 a	100753651	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peroxisome proliferator-activated receptor gamma, coactivator 1 beta	Ppargc1 b	100762347	1.08	1.03	0.91	0.79	0.83	0.89	243.05	229.67	204.94	179.63	183.19	196.28
phosphoribosyl pyrophosphate amidotransferase	Ppat	100760149	22.18	22.47	18.27	19.66	17.62	16.93	960.82	985.49	812.32	843.69	765.89	730.91
pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	Ppbp	100757920	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	2.32	0.00	1.87
phosphopantothenoylcysteine decarboxylase	Ppcdc	100766343	19.78	19.85	16.55	14.35	14.52	14.87	779.29	787.84	660.79	573.67	600.29	615.01
phosphopantothenoylcysteine synthetase	Ppcs	100768962	26.12	30.04	34.71	37.97	41.18	36.35	756.50	852.81	988.70	1047.66	1060.86	981.40
pancreatic progenitor cell differentiation and proliferation factor	Ppdpf	100760588	22.23	22.59	23.61	15.25	9.97	11.52	462.56	440.13	458.33	289.73	190.44	214.97
protein phosphatase, EF-hand calcium binding domain 1	Ppef1	100751541	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protein phosphatase, EF-hand calcium binding domain 2	Ppef2	103164316	0.00	0.00	0.23	0.00	0.00	0.35	0.00	0.92	2.48	1.16	0.00	0.93
protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1	Ppfia1	100773150	20.08	21.33	21.99	20.52	19.17	19.55	3026.00	3259.35	3390.90	3102.43	2914.52	2909.63
protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 2	Ppfia2	100773734	0.78	0.68	0.57	0.84	1.56	1.18	55.45	52.16	47.20	64.90	119.02	88.79
protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3	Ppfia3	100770934	3.14	3.24	2.57	2.32	1.53	1.81	426.10	439.22	355.24	317.54	224.59	255.16
protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 4	Ppfia4	100760564	0.14	0.14	0.06	0.12	0.10	0.12	19.75	18.30	11.18	22.02	13.45	15.89
PTPRF interacting protein, binding protein 1 (liprin beta 1)	Ppfibp1	100754722	105.10	104.34	109.78	116.73	121.68	125.64	15186.99	15389.03	16183.15	16959.63	17535.77	18011.08

PTPRF interacting protein, binding protein 2 (liprin beta 2)	Ppfibp2	100766750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
periphilin 1	Pphln1	100770109	28.08	29.82	30.70	33.72	39.64	37.17	1857.07	1971.90	2063.11	2291.18	2616.45	2470.33
peptidylprolyl isomerase A (cyclophilin A)	Ppia	100769490	2244.17	2298.69	2026.79	2109.62	2080.31	2075.91	32971.60	33754.67	29502.05	29910.56	29405.00	29672.96
peptidylprolyl isomerase B (cyclophilin B)	Ppib	100774375	398.83	385.14	439.75	427.33	406.57	435.92	9362.08	9132.95	10452.16	9876.32	9561.20	10154.25
peptidylprolyl isomerase C (cyclophilin C)	Ppic	100774301	41.71	42.66	21.18	21.70	25.04	25.37	1406.67	1464.05	755.19	750.98	865.25	862.70
peptidylprolyl isomerase D	Ppid	100752921	59.48	60.03	46.04	42.78	43.65	41.47	1358.06	1425.62	1115.39	1000.15	1036.02	961.78
peptidylprolyl isomerase E (cyclophilin E)	Ppie	100773432	60.35	57.96	62.64	63.40	54.82	60.89	2091.01	1995.69	2127.69	2099.96	1845.38	2079.64
peptidylprolyl isomerase F	Ppif	100752432	37.45	34.29	49.01	44.05	38.54	42.31	1480.34	1360.65	1937.66	1744.17	1510.05	1679.60
peptidylprolyl isomerase G (cyclophilin G)	Ppig	100763632	34.50	34.34	32.18	37.47	38.07	34.79	5900.10	5840.66	5491.27	6346.25	6423.13	5894.96
peptidylprolyl isomerase H (cyclophilin H)	Ppih	100768669	53.15	54.98	54.32	55.64	61.58	60.46	1114.24	1219.74	1177.50	1142.70	1323.75	1243.11
peptidylprolyl isomerase (cyclophilin)-like 1	Ppil1	100753635	57.11	59.23	63.20	65.25	55.94	57.81	1943.66	1984.71	2137.63	2176.45	1889.88	1954.39
peptidylprolyl isomerase (cyclophilin)-like 2	Ppil2	100760101	30.95	28.65	32.49	29.95	31.65	32.57	2113.04	1977.39	2306.56	2102.28	2257.31	2236.66
peptidylprolyl isomerase (cyclophilin)-like 3	Ppil3	100758293	23.36	23.10	24.80	23.19	23.50	27.39	566.62	569.15	593.72	541.22	565.10	661.75
peptidylprolyl isomerase (cyclophilin)-like 4	Ppil4	100759307	17.81	17.90	16.59	20.29	13.25	13.02	1048.92	1045.88	1012.30	1169.35	766.92	758.95
peptidylprolyl isomerase (cyclophilin)-like 6	Ppil6	100752280	0.02	0.00	0.03	0.05	0.00	0.04	0.76	0.00	1.24	2.32	0.00	1.87
diphosphoinositol pentakisphosphate kinase 1	Ppip5k1	100767441	8.25	7.82	8.56	8.10	8.91	10.30	1596.55	1562.88	1613.47	1580.77	1776.04	1934.77
diphosphoinositol pentakisphosphate kinase 2	Ppip5k2	100769408	41.25	39.56	38.79	44.10	45.24	43.49	6745.47	6506.80	6451.40	7228.18	7294.58	7064.23
periplakin	Ppl	100768727	0.00	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93
protein phosphatase, Mg2+/Mn2+ dependent, 1A	Ppm1a	100773654	55.96	55.70	57.92	61.90	65.77	64.90	3626.04	3648.24	3793.33	4020.29	4275.53	4244.34
protein phosphatase, Mg2+/Mn2+ dependent, 1B	Ppm1b	100761807	15.66	16.30	17.80	18.67	22.05	20.07	1006.39	1023.92	1136.51	1180.94	1391.02	1278.63
protein phosphatase, Mg2+/Mn2+ dependent, 1D	Ppm1d	100761266	7.36	8.24	5.07	4.69	4.49	4.12	492.18	537.12	331.64	305.95	289.80	270.12
protein phosphatase, Mg2+/Mn2+ dependent, 1E	Ppm1e	103163832	2.47	2.28	1.15	1.36	1.81	1.47	197.48	185.75	93.16	105.46	142.83	121.51
protein phosphatase, Mg2+/Mn2+ dependent, 1F	Ppm1f	100758939	27.78	26.21	27.49	27.72	24.69	26.92	3853.90	3657.39	3870.34	3862.68	3412.35	3748.96
protein phosphatase, Mg2+/Mn2+ dependent, 1G	Ppm1g	100768018	198.79	200.83	209.74	210.26	180.36	191.69	11343.72	11703.28	12215.92	11986.71	10425.42	10875.82
protein phosphatase, Mg2+/Mn2+ dependent, 1H	Ppm1h	100758165	0.06	0.17	0.05	0.09	0.11	0.11	6.84	15.56	3.73	6.95	8.28	8.41
protein phosphatase, Mg2+/Mn2+ dependent, 1J	Ppm1j	100751109	0.30	0.36	0.32	0.42	0.37	0.30	18.99	22.88	19.87	20.86	23.80	20.56
protein phosphatase, Mg2+/Mn2+ dependent, 1K	Ppm1k	100763686	2.51	2.12	3.22	3.44	4.00	3.76	418.51	360.52	547.76	572.51	648.94	633.71
protein phosphatase, Mg2+/Mn2+ dependent, 1L	Ppm1l	100756738	6.81	5.83	7.59	8.63	7.30	7.88	221.03	196.73	243.45	261.92	233.91	247.69
protein phosphatase, Mg2+/Mn2+ dependent, 1M	Ppm1m	100770979	10.82	10.55	13.68	14.04	13.32	14.73	1415.78	1405.49	1787.36	1804.44	1685.99	1879.62

protein phosphatase, Mg2+/Mn2+ dependent, 1N (putative)	Ppm1n	103159298	0.19	0.43	0.21	0.10	0.09	0.16	3.80	6.41	2.48	3.48	2.07	7.48
protein phosphatase methylesterase 1	Ppme1	100753403	44.74	44.38	43.73	37.88	43.55	46.38	1075.51	1099.87	1076.89	934.09	1040.16	1049.63
protoporphyrinogen oxidase	Ppox	100767777	11.78	12.14	17.90	15.15	14.16	16.38	738.27	734.77	1084.34	935.25	838.34	987.95
protein phosphatase 1, catalytic subunit, alpha isozyme	Ppp1ca	100760810	243.11	235.42	246.00	234.28	220.82	242.84	9346.13	9078.05	9526.81	8788.09	8155.69	9077.51
protein phosphatase 1, catalytic subunit, beta isozyme	Ppp1cb	100761524	82.19	81.79	84.75	89.28	100.77	96.40	6183.41	6206.67	6458.85	6739.12	7542.98	7246.49
protein phosphatase 1, catalytic subunit, gamma isozyme	Ppp1cc	100774547	129.51	134.62	128.52	130.63	134.42	141.05	5112.46	5341.97	5111.19	5096.93	5207.02	5445.39
protein phosphatase 1, regulatory subunit 10	Ppp1r10	100765643	21.32	20.67	16.42	13.76	11.87	12.68	2482.17	2444.97	1935.17	1676.96	1469.68	1545.94
protein phosphatase 1, regulatory (inhibitor) subunit 11	Ppp1r11	100771413	76.45	76.17	81.25	80.45	80.64	84.34	3048.79	3046.15	3259.24	3183.55	3205.35	3361.07
protein phosphatase 1, regulatory subunit 12A	Ppp1r12a	100754718	37.94	36.85	34.32	40.32	41.63	39.10	5563.62	5535.95	5152.18	6013.64	6148.85	5769.72
protein phosphatase 1, regulatory subunit 12B	Ppp1r12b	100753601	7.17	7.74	7.25	7.51	6.36	6.50	1715.80	1721.18	1752.58	1794.01	1526.60	1588.94
protein phosphatase 1, regulatory subunit 12C	Ppp1r12c	100765970	3.62	3.23	3.87	2.02	1.32	1.40	224.06	217.78	264.56	144.86	89.01	101.88
protein phosphatase 1, regulatory subunit 13B	Ppp1r13b	100767649	7.91	7.69	8.90	8.93	7.67	7.91	1009.43	988.24	1146.45	1150.81	993.59	1030.01
protein phosphatase 1, regulatory subunit 13 like	Ppp1r13l	103159296	4.08	3.15	3.42	2.01	1.58	1.85	63.80	53.07	50.93	27.81	17.59	23.37
protein phosphatase 1, regulatory (inhibitor) subunit 14A	Ppp1r14a	100763398	0.05	0.11	0.00	0.00	0.00	0.00	5.32	4.58	0.00	0.00	1.03	0.93
protein phosphatase 1, regulatory (inhibitor) subunit 14B	Ppp1r14b	100759839	601.73	594.19	575.71	493.88	414.25	465.39	7971.36	7892.16	7669.89	6216.45	5367.44	5839.82
protein phosphatase 1, regulatory (inhibitor) subunit 14D	Ppp1r14d	100762755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 15A	Ppp1r15a	100757625	140.76	134.99	156.70	148.66	133.62	145.56	7778.44	7473.99	8725.66	8213.27	7318.39	8056.85
protein phosphatase 1, regulatory subunit 15B	Ppp1r15b	100766520	34.61	34.23	39.34	39.55	37.36	39.12	2360.65	2338.83	2740.04	2730.42	2571.94	2733.91
protein phosphatase 1, regulatory subunit 16A	Ppp1r16a	100753406	9.18	8.80	11.55	8.77	7.31	7.44	720.04	686.28	906.72	701.15	566.14	590.71
protein phosphatase 1, regulatory subunit 16B	Ppp1r16b	100761039	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
protein phosphatase 1, regulatory subunit 17	Ppp1r17	100750492	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 18	Ppp1r18	100764073	43.66	43.37	51.79	49.36	47.28	49.20	3528.06	3510.98	4177.14	3946.12	3705.25	3896.64
protein phosphatase 1, regulatory (inhibitor) subunit 1A	Ppp1r1a	100768746	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory (inhibitor) subunit 1B	Ppp1r1b	100758739	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory (inhibitor) subunit 1C	Ppp1r1c	100761737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory (inhibitor) subunit 2	Ppp1r2	100760735	37.45	39.84	28.65	32.04	37.64	34.85	2211.02	2385.49	1727.74	1900.63	2207.63	2082.44
protein phosphatase 1, regulatory subunit 21	Ppp1r21	100771957	15.26	14.84	16.01	16.17	14.46	14.79	1229.69	1201.44	1275.62	1277.13	1162.29	1191.70
protein phosphatase 1, regulatory subunit 26	Ppp1r26	100756993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

protein phosphatase 1, regulatory subunit 27	Ppp1r27	100766770	8.51	8.84	5.07	3.73	3.90	4.33	542.31	534.38	319.22	224.83	241.15	274.79
protein phosphatase 1, regulatory subunit 32	Ppp1r32	100771828	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.00	1.24	0.00	1.03	0.93
protein phosphatase 1, regulatory subunit 36	Ppp1r36	100765040	67.88	69.42	70.68	85.03	104.70	95.27	2538.38	2605.10	2656.82	3134.88	3876.02	3540.53
protein phosphatase 1, regulatory subunit 37	Ppp1r37	100753728	3.82	3.64	3.75	2.39	2.13	2.21	140.51	135.42	141.60	86.92	75.55	80.38
protein phosphatase 1, regulatory subunit 3A	Ppp1r3a	100762767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 3B	Ppp1r3b	100770506	2.49	2.61	2.67	3.09	2.75	2.93	304.58	319.35	334.12	382.44	334.30	359.85
protein phosphatase 1, regulatory subunit 3C	Ppp1r3c	100765700	0.01	0.00	0.00	0.00	0.01	0.01	0.76	0.00	0.00	0.00	1.03	0.93
protein phosphatase 1, regulatory subunit 3D	Ppp1r3d	100771348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 3F	Ppp1r3f	100767964	3.86	3.95	3.55	3.43	3.70	3.40	259.00	264.44	239.72	241.06	251.50	228.99
protein phosphatase 1, regulatory subunit 3G	Ppp1r3g	100764027	0.00	0.08	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 42	Ppp1r42	100767325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 7	Ppp1r7	100753495	56.54	56.79	66.90	64.95	68.41	68.39	3644.27	3739.74	4368.42	4204.56	4358.33	4383.60
protein phosphatase 1, regulatory subunit 8	Ppp1r8	100772916	30.38	29.52	30.85	31.16	27.69	29.16	1759.09	1736.73	1827.11	1817.19	1619.75	1695.49
protein phosphatase 1, regulatory subunit 9A	Ppp1r9a	100764576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 1, regulatory subunit 9B	Ppp1r9b	100761853	30.15	27.97	22.69	20.31	16.03	17.67	3018.41	2874.12	2316.49	2059.40	1622.86	1779.61
protein phosphatase 2, catalytic subunit, alpha isozyme	Ppp2ca	100766084	30.84	29.35	29.08	29.58	31.93	31.00	1031.45	969.02	956.41	965.38	1076.39	1039.35
protein phosphatase 2, catalytic subunit, beta isozyme	Ppp2cb	100757400	91.00	88.76	81.68	81.59	87.13	90.51	2656.11	2662.75	2472.99	2337.54	2532.61	2640.44
protein phosphatase 2, regulatory subunit A, alpha	Ppp2r1a	100773447	86.74	82.33	84.61	72.24	57.39	60.13	5004.60	4757.26	4892.58	4108.37	3320.24	3469.49
protein phosphatase 2, regulatory subunit A, beta	Ppp2r1b	100771272	16.81	16.19	17.07	17.23	19.11	19.76	2508.00	2455.03	2660.55	2624.95	2926.94	2972.25
protein phosphatase 2, regulatory subunit B, alpha	Ppp2r2a	100758873	57.87	58.97	63.65	67.58	70.13	69.97	5238.54	5395.04	5810.48	6131.85	6367.24	6329.58
protein phosphatase 2, regulatory subunit B, beta	Ppp2r2b	100763205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 2, regulatory subunit B, gamma	Ppp2r2c	100750924	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 2, regulatory subunit B'', alpha	Ppp2r3a	100760513	5.52	5.24	2.34	2.71	2.84	2.82	1471.99	1425.62	662.03	746.34	758.64	764.56
protein phosphatase 2, regulatory subunit B'', gamma	Ppp2r3c	100752573	9.79	9.43	10.88	12.43	13.61	11.98	746.63	728.37	817.29	897.00	960.47	868.31
protein phosphatase 2A activator, regulatory subunit 4	Ppp2r4	100770682	114.41	131.01	114.33	124.02	123.77	110.65	3497.68	3288.63	3522.56	3193.98	2731.33	3103.10
protein phosphatase 2, regulatory subunit B', alpha	Ppp2r5a	100764403	9.79	9.67	12.39	12.51	13.86	13.37	587.12	581.96	740.28	762.57	793.83	769.23
protein phosphatase 2, regulatory subunit B', beta	Ppp2r5b	100758888	14.99	13.93	15.77	15.28	12.50	14.62	1144.63	1061.44	1214.76	1163.56	959.43	1112.26

protein phosphatase 2, regulatory subunit B', gamma	Ppp2r5c	100754775	43.84	45.86	46.72	51.52	52.22	49.62	3907.83	4142.36	4030.57	4485.02	4472.18	4394.82
protein phosphatase 2, regulatory subunit B', delta	Ppp2r5d	100769874	46.21	46.19	51.17	53.08	52.04	55.36	3734.65	3747.98	4197.01	4233.53	4194.80	4477.07
protein phosphatase 2, regulatory subunit B', epsilon isoform	Ppp2r5e	100762509	17.58	18.05	18.09	19.24	22.85	22.02	1994.55	2065.23	2099.13	2204.27	2575.05	2481.55
protein phosphatase 3, catalytic subunit, beta isozyme	Ppp3cb	100764987	35.22	35.00	33.23	36.60	37.87	38.93	3208.29	3212.68	3130.06	3391.00	3503.43	3575.11
protein phosphatase 3, catalytic subunit, gamma isozyme	Ppp3cc	100751412	9.09	9.18	9.54	10.94	13.33	13.20	461.04	456.60	510.50	535.42	664.46	642.12
protein phosphatase 3, regulatory subunit B, alpha	Ppp3r1	100773706	66.76	68.43	62.30	66.32	75.79	72.44	4823.83	4948.50	4537.34	4790.97	5430.57	5257.52
protein phosphatase 3, regulatory subunit B, beta	Ppp3r2	100754314	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.03	0.00
protein phosphatase 4, catalytic subunit	Ppp4c	100771425	107.61	97.57	101.10	94.23	81.67	89.51	3902.51	3571.38	3729.99	3391.00	2953.85	3204.98
protein phosphatase 4, regulatory subunit 1	Ppp4r1	100757531	61.13	56.07	56.40	53.86	49.87	53.92	6827.50	6338.44	6416.62	6029.86	5586.86	6014.60
protein phosphatase 4, regulatory subunit 2	Ppp4r2	100758228	120.39	120.84	106.12	112.26	119.83	114.12	11376.38	11543.15	10204.99	10716.53	11331.03	10837.50
protein phosphatase 4, regulatory subunit 4	Ppp4r4	100764288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein phosphatase 6, catalytic subunit	Ppp6c	100752643	45.79	47.88	49.23	53.47	54.90	54.83	1952.78	2042.35	2105.34	2258.73	2313.19	2323.59
protein phosphatase 6, regulatory subunit 1	Ppp6r1	100772081	14.45	13.67	13.42	9.12	6.22	6.79	1047.40	1058.69	1016.03	694.19	484.37	521.55
protein phosphatase 6, regulatory subunit 2	Ppp6r2	100755203	4.87	4.66	4.61	4.82	4.47	4.90	796.76	765.88	771.34	773.00	732.77	802.88
protein phosphatase 6, regulatory subunit 3	Ppp6r3	100761104	46.31	48.63	42.26	44.99	44.69	43.24	6080.87	6430.86	5724.78	5866.45	5885.97	5583.72
peroxisome proliferator-activated receptor gamma, coactivator-related 1	Pprc1	100751874	46.59	44.84	43.31	40.33	31.33	32.10	7024.98	6758.44	6533.38	6091.28	4705.05	4823.83
palmitoyl-protein thioesterase 1	Ppt1	100750408	43.68	43.77	47.08	46.86	44.77	47.52	2874.10	2907.06	3099.01	3083.89	2920.73	3083.48
palmitoyl-protein thioesterase 2	Ppt2	100758494	7.50	6.65	7.80	7.39	6.26	7.07	378.25	360.52	429.76	362.74	326.02	348.63
PTC7 protein phosphatase homolog (S. cerevisiae)	Pptc7	100750650	7.01	7.19	6.91	7.64	7.16	7.91	580.29	599.35	599.93	639.72	606.50	662.68
peptidylprolyl isomerase domain and WD repeat containing 1	Ppwd1	100761004	9.59	8.89	8.03	9.50	10.90	9.28	663.84	631.37	568.88	674.49	765.89	664.55
polyglutamine binding protein 1	Pqbp1	100762531	119.82	118.74	121.87	105.34	94.06	101.01	3566.04	3620.79	3689.00	3079.25	2763.41	2918.97
PQ loop repeat containing 1	Pqlc1	100761560	6.10	5.89	6.46	6.35	5.77	6.17	477.75	449.28	516.71	460.09	334.30	363.59
PQ loop repeat containing 2	Pqlc2	100752042	4.60	5.02	4.26	3.96	5.07	3.93	209.63	216.86	183.83	187.75	239.08	200.95
PQ loop repeat containing 3	Pqlc3	100764349	9.07	9.49	7.15	8.66	11.66	11.47	486.86	501.44	388.77	454.30	604.43	620.62
protease-associated domain containing 1	Pradc1	100770278	10.69	10.67	10.58	11.53	14.22	13.90	478.51	476.73	439.70	484.43	545.44	538.37
PRA1 domain family, member 2	Praf2	100760205	23.04	22.62	25.49	25.90	30.05	27.50	22.79	8.24	14.91	9.27	7.24	6.54
PML-RARA regulated adaptor molecule 1	Pram1	100755895	0.00	0.03	0.00	0.00	0.00	0.00	1.52	5.49	1.24	4.64	2.07	1.87
PRAME family member 12	Pramef12	103158561	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
proline-rich acidic protein 1	Prap1	100772682	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein regulator of cytokinesis 1	Prc1	100770968	81.36	83.64	64.87	76.18	79.72	76.83	5619.07	5774.78	4579.57	5258.02	5503.02	5112.64

papillary renal cell carcinoma (translocation-associated)	Prcc	100752015	26.21	24.49	24.25	21.82	17.46	18.85	1522.12	1437.52	1435.85	1275.97	1020.50	1103.84
progressive rod-cone degeneration	Prcd	100755980	0.39	0.47	1.17	0.55	0.99	0.88	14.43	16.47	36.02	15.07	31.05	23.37
prolylcarboxypeptidase (angiotensinase C)	Prcp	100752448	15.52	15.95	17.61	18.05	17.95	19.43	1086.90	1129.15	1229.67	1230.77	1239.91	1335.64
PR domain containing 1, with ZNF domain	Prdm1	100759446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PR domain containing 10	Prdm10	100756394	1.27	0.95	1.13	1.01	1.23	1.14	227.86	164.71	202.46	191.22	213.21	205.63
PR domain containing 11	Prdm11	100761907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PR domain containing 12	Prdm12	100761986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PR domain containing 14	Prdm14	100762664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PR domain containing 15	Prdm15	100763200	3.31	3.12	2.90	2.86	2.57	2.44	638.01	598.43	558.94	548.17	481.27	463.60
PR domain containing 16	Prdm16	100762301	1.52	1.43	1.88	1.39	0.94	1.08	223.30	212.29	296.86	212.08	140.76	168.24
PR domain containing 2, with ZNF domain	Prdm2	100773277	9.14	8.79	10.32	10.93	10.58	10.75	1722.63	1678.17	1993.55	2083.74	1987.17	2056.27
PR domain containing 4	Prdm4	100762237	10.83	10.40	10.62	12.17	12.48	12.72	1778.84	1721.18	1779.91	2020.00	2053.41	2125.44
PR domain containing 5	Prdm5	100757619	13.28	13.72	17.39	21.31	21.06	19.95	995.00	1040.39	1311.64	1579.61	1555.58	1462.76
PR domain containing 6	Prdm6	100773424	0.00	0.00	0.00	0.00	0.00	0.00	8.35	1.83	6.21	4.64	5.17	11.22
PR domain containing 8	Prdm8	100763807	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
peroxiredoxin 1	Prdx1	100689332	391.43	421.71	534.81	558.77	461.97	449.27	7896.17	8561.05	10710.51	10993.51	9261.06	9064.43
peroxiredoxin 2	Prdx2	100689349	131.24	126.32	166.11	149.52	124.71	151.79	2879.41	2735.95	3569.76	3205.57	2786.18	3324.62
peroxiredoxin 3	Prdx3	100773693	52.64	50.97	59.48	60.40	60.67	63.46	2037.84	2005.75	2345.06	2313.20	2360.80	2430.14
peroxiredoxin 4	Prdx4	100763245	205.82	197.76	198.03	212.17	225.85	220.23	4649.14	4540.40	4441.70	4519.79	4860.30	4656.52
peroxiredoxin 5	Prdx5	100758393	69.96	71.02	80.69	70.49	54.98	57.26	1550.22	1604.97	1789.85	1550.63	1226.46	1273.95
peroxiredoxin 6	Prdx6	100754867	172.03	167.02	192.46	192.36	172.06	182.81	5774.78	5614.65	6325.95	6145.75	5343.63	5694.01
prolactin regulatory element binding	Preb	100764138	23.58	22.08	25.42	24.67	23.29	24.62	1164.37	1087.97	1300.46	1199.48	1133.31	1200.12
PRELI domain containing 1	Prelid1	100764743	215.44	208.70	189.16	179.51	137.75	146.19	5576.54	5469.16	4949.72	4606.71	3604.86	3774.20
PRELI domain containing 2	Prelid2	100764955	4.11	3.79	4.43	5.32	5.40	5.47	99.50	93.33	114.27	124.00	138.69	132.72
proline/arginine-rich end leucine-rich repeat protein	Prelp	100765642	0.02	0.04	0.04	0.09	0.07	0.06	1.52	4.58	4.97	9.27	7.24	5.61
prolyl endopeptidase	Prep	100770750	41.71	39.92	48.22	46.74	42.47	45.07	4326.34	4217.39	5122.37	4902.23	4491.84	4689.24
prolyl endopeptidase-like	Prepl	100762687	10.57	11.16	10.73	12.57	13.68	14.01	839.29	886.67	883.12	1009.42	1105.37	1101.98
phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1	Prex1	100774282	0.04	0.07	0.00	0.01	0.00	0.00	10.63	15.56	1.24	1.16	0.00	0.00
phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	Prex2	100764966	18.83	18.40	21.34	24.59	26.13	25.47	5024.35	4932.03	5666.40	6452.87	6824.70	6703.45
perforin 1 (pore forming protein)	Prf1	100761729	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)	Prg2	100757904	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
proteoglycan 3	Prg3	100758195	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
proteoglycan 4	Prg4	100752278	0.06	0.05	0.03	0.06	0.11	0.05	6.08	4.58	4.97	8.11	8.28	3.74

prickle homolog 1 (Drosophila)	Prickle1	100769532	0.29	0.36	0.31	0.23	0.11	0.15	33.42	43.92	36.02	25.50	10.35	15.89
prickle homolog 2 (Drosophila)	Prickle2	100767513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prickle homolog 3 (Drosophila)	Prickle3	100758570	1.87	1.71	1.76	1.62	1.31	1.22	117.73	110.72	116.76	99.67	80.73	70.10
prickle homolog 4 (Drosophila)	Prickle4	100772474	1.84	1.51	1.78	1.22	1.01	0.93	135.20	132.68	151.53	129.80	127.30	113.10
primase, DNA, polypeptide 1 (49kDa)	Prim1	100762443	27.57	28.92	31.52	34.21	42.46	37.25	1123.36	1184.97	1263.20	1336.23	1706.69	1487.06
primase, DNA, polypeptide 2 (58kDa)	Prim2	100772954	21.31	21.90	24.43	26.44	27.86	29.11	1219.82	1249.94	1417.22	1482.26	1603.19	1668.39
proline rich membrane anchor 1	Prima1	100765258	0.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
primase and polymerase (DNA-directed)	Primpol	100753873	8.81	9.12	8.69	9.72	12.52	11.13	595.48	603.01	608.62	655.95	853.86	783.25
protein kinase, AMP-activated, alpha 1 catalytic subunit	Prkaa1	100769574	14.57	14.61	12.29	12.80	14.87	13.96	928.92	933.33	789.97	806.61	948.05	881.39
protein kinase, AMP-activated, alpha 2 catalytic subunit	Prkaa2	100767909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kinase, AMP-activated, beta 1 non-catalytic subunit	Prkab1	100755226	30.79	28.95	33.71	36.07	35.65	38.12	1800.11	1692.81	1958.77	2101.12	2047.20	2219.84
protein kinase, AMP-activated, beta 2 non-catalytic subunit	Prkab2	100772359	7.59	7.48	5.18	6.16	6.67	6.65	1165.13	1157.52	811.08	950.31	1028.78	1024.40
protein kinase, cAMP-dependent, catalytic, alpha	Prkaca	100768997	28.94	28.95	35.30	35.58	36.42	36.02	1840.36	1861.18	2261.84	2256.42	2285.25	2256.29
protein kinase, cAMP-dependent, catalytic, beta	Prkacb	100767097	15.02	16.24	16.75	16.54	17.90	19.85	733.71	755.82	794.94	798.50	861.11	958.97
protein kinase, AMP-activated, gamma 1 non-catalytic subunit	Prkag1	100765754	22.12	22.50	23.10	21.74	28.03	26.88	1058.80	1067.84	1111.67	1041.87	1357.90	1276.76
protein kinase, AMP-activated, gamma 2 non-catalytic subunit	Prkag2	100758649	2.71	3.07	3.77	3.31	3.43	3.45	305.33	338.56	393.74	373.17	370.53	371.06
protein kinase, AMP-activated, gamma 3 non-catalytic subunit	Prkag3	100770459	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
protein kinase, cAMP-dependent, regulatory, type I, alpha	Prkar1a	100773792	132.04	128.63	119.93	118.03	119.39	125.01	6636.85	6556.22	6134.67	6017.11	6199.57	6414.64
protein kinase, cAMP-dependent, regulatory, type I, beta	Prkar1b	100770073	0.15	0.11	0.18	0.20	0.05	0.05	6.84	4.58	8.69	8.11	4.14	2.80
protein kinase, cAMP-dependent, regulatory, type II, alpha	Prkar2a	100765868	55.95	58.75	60.03	60.65	64.70	61.62	3392.10	3503.66	3695.21	3717.81	3964.00	3834.95
protein kinase, cAMP-dependent, regulatory, type II, beta	Prkar2b	100766449	12.53	14.74	14.75	15.49	19.62	18.28	476.23	558.17	588.75	587.57	760.71	684.18
protein kinase C, alpha	Prkca	100766006	13.72	12.85	11.20	14.66	17.53	14.00	928.16	872.03	864.49	987.40	1218.18	1087.02
protein kinase C, beta	Prkcb	100760922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kinase C, delta	Prkcd	100774348	18.11	17.34	24.53	24.56	27.37	28.11	1325.40	1259.09	1778.67	1791.69	1962.33	1991.78
protein kinase C, delta binding protein	Prkcdbp	100753764	52.93	57.68	68.36	52.68	43.30	46.04	1487.18	1626.01	1911.57	1456.76	1201.62	1276.76
protein kinase C, epsilon	Prkce	100763552	1.70	1.59	2.04	2.26	2.55	2.27	255.21	239.74	303.07	322.18	359.14	333.68
protein kinase C, gamma	Prkcg	100762950	0.00	0.00	0.00	0.03	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.93
protein kinase C, eta	Prkch	100751001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kinase C, iota	Prkci	100765819	26.96	28.18	35.04	39.37	40.89	39.41	2949.29	3090.98	3836.81	4337.84	4438.02	4237.79
protein kinase C, theta	Prkcq	100762470	0.02	0.01	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
protein kinase C substrate 80K-H	Prkcsh	100753910	128.12	120.22	139.50	128.34	100.76	115.65	8058.71	7749.42	8877.19	8063.76	6564.92	7177.33
protein kinase D1	Prkd1	100762119	15.23	15.31	17.67	19.17	19.78	20.10	1270.71	1247.19	1437.09	1578.45	1584.56	1624.46
protein kinase D2	Prkd2	100763335	1.05	0.79	1.34	1.01	0.67	0.56	68.36	61.31	91.91	70.69	45.54	40.19

protein kinase D3	Prkd3	100756168	18.40	18.52	16.84	19.53	21.27	20.41	2176.84	2243.66	2048.20	2363.04	2547.10	2451.64
protein kinase, DNA-activated, catalytic polypeptide	Prkdc	100770748	6.48	6.01	6.42	7.60	8.33	7.95	2651.55	2487.98	2661.79	3105.91	3408.21	3298.45
protein kinase, cGMP-dependent, type I	Prkg1	100768615	0.02	0.03	0.00	0.00	0.00	0.00	1.52	4.58	0.00	0.00	0.00	0.00
protein kinase, cGMP-dependent, type II	Prkg2	100765312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein kinase, interferon-inducible double stranded RNA dependent activator	Prkra	100766102	6.07	6.51	5.62	5.32	6.98	6.70	277.99	290.07	262.08	245.69	309.46	295.36
PRKR interacting protein 1 (IL11 inducible)	Prkrip1	100766978	25.12	26.24	28.00	25.74	25.47	25.85	584.85	613.99	658.31	630.45	573.38	581.36
protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor)	Prkrir	100750790	43.50	45.38	47.37	50.29	46.65	44.59	3105.76	3271.24	3444.31	3643.64	3334.73	3250.78
protein kinase, X-linked	Prkx	100756471	12.01	12.92	10.63	11.96	13.27	13.28	1317.04	1428.37	1188.68	1330.44	1455.19	1468.37
prolactin receptor	Prlr	100757415	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protamine 3	Prm3	100769058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein arginine methyltransferase 1	Prmt1	100765197	369.58	344.56	391.67	367.45	281.69	343.53	12873.43	12293.48	13921.31	12801.43	9982.44	11846.94
protein arginine methyltransferase 2	Prmt2	100752416	18.05	16.49	17.10	16.26	12.12	13.95	925.12	857.39	886.85	818.20	600.29	676.70
protein arginine methyltransferase 3	Prmt3	100761738	43.47	43.41	42.60	45.47	44.46	44.03	2911.31	2966.54	2892.82	3057.23	3012.85	2929.25
protein arginine methyltransferase 5	Prmt5	100768836	72.43	73.08	72.83	72.23	68.37	68.23	5486.91	5585.36	5591.87	5496.76	5157.34	5087.41
protein arginine methyltransferase 7	Prmt7	100759617	29.99	27.51	32.70	31.99	28.87	32.53	2198.87	2078.96	2470.51	2405.92	2195.21	2416.12
protein arginine methyltransferase 8	Prmt8	100770963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein arginine methyltransferase 9	Prmt9	100773595	9.05	9.61	11.78	12.63	13.93	14.28	700.30	719.22	871.94	938.73	1008.08	1045.90
prion protein 2 (dublet)	Prnd	100762506	0.41	0.51	0.05	0.00	0.00	0.00	18.23	23.79	2.48	0.00	0.00	0.00
prion protein	Prnp	100762792	10.34	11.05	2.29	2.29	1.76	1.59	617.51	665.23	139.11	134.43	102.46	96.27
protein C (inactivator of coagulation factors Va and VIIIa)	Proc	100772264	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein interacting with cyclin A1	Proca1	100763727	1.34	1.42	1.26	1.16	1.15	1.23	151.15	172.03	152.78	149.50	132.48	148.61
protein C receptor, endothelial	Procr	100754100	0.37	0.21	0.14	0.20	0.12	0.11	19.75	12.81	9.94	8.11	5.17	6.54
proline dehydrogenase (oxidase) 1	Prodh	100750856	0.33	0.34	0.20	0.17	0.11	0.04	177.73	187.58	156.50	133.28	121.09	158.89
proline dehydrogenase (oxidase) 2	Prodh2	100773901	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
profilin-2	Profilin-2	100757165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prokineticin 1	Prok1	100768325	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	2.48	2.32	0.00	0.00
prokineticin 2	Prok2	100759658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prokineticin receptor 1	Prokr1	100766220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prokineticin receptor 2	Prokr2	100760764	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich, lacrimal 1	Prol1	100769334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prominin 1	Prom1	100761205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prominin 2	Prom2	100773870	0.40	0.37	0.05	0.07	0.11	0.12	50.13	52.16	11.18	12.75	13.45	16.82
PROP paired-like homeobox 1	Prop1	100761719	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein S (alpha)	Pros1	100768391	29.20	29.43	20.44	22.52	20.83	20.38	2627.25	2664.58	1869.34	2038.54	1862.98	1817.00
proline synthetase co-transcribed homolog (bacterial)	Prosc	100770225	57.90	60.95	68.90	71.53	69.19	71.55	3679.97	3907.19	4423.07	4512.83	4345.91	4510.72
proline and serine rich 1	Proser1	100753434	6.66	6.39	7.35	6.89	6.37	6.44	1323.88	1279.22	1483.05	1372.16	1278.21	1309.47
proline and serine rich 2	Proser2	100771252	3.01	2.84	4.96	4.15	3.97	3.80	248.37	244.31	427.28	336.09	315.67	312.18

prospero homeobox 1	Prox1	100752367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prospero homeobox 2	Prox2	100758177	0.15	0.15	0.08	0.10	0.09	0.09	17.47	14.64	16.15	12.75	16.56	15.89
protein Z, vitamin K-dependent plasma glycoprotein	Proz	100758472	0.27	0.31	0.16	0.17	0.16	0.14	18.99	22.88	12.42	16.22	14.49	13.09
pre-mRNA processing factor 18	Prpf18	100750534	22.12	21.78	18.65	19.37	23.22	21.87	1924.67	1925.23	1675.58	1756.92	2044.10	1927.29
pre-mRNA processing factor 19	Prpf19	100751402	81.71	77.08	80.63	81.64	67.75	77.79	5295.51	5115.95	5337.25	5190.80	4245.51	4826.63
pre-mRNA processing factor 3	Prpf3	100762116	42.57	44.45	45.22	44.20	46.24	43.98	2982.71	3101.05	3176.02	3049.12	3172.23	3023.66
pre-mRNA processing factor 31	Prpf31	100765568	31.04	30.51	24.84	20.84	16.74	16.13	1457.56	1386.28	1158.87	948.00	772.10	733.72
pre-mRNA processing factor 38A	Prpf38a	100755230	68.79	69.68	62.95	65.16	67.68	66.90	4813.96	4863.40	4374.63	4491.97	4637.77	4605.12
pre-mRNA processing factor 39	Prpf39	100756682	22.52	22.13	18.54	22.98	23.00	21.87	1977.08	1913.34	1613.47	2001.45	2023.40	1905.79
pre-mRNA processing factor 4	Prpf4	100753511	18.98	18.53	18.66	19.64	18.67	20.67	1601.11	1583.01	1603.53	1657.26	1574.21	1728.20
PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)	Prpf40a	100774137	67.89	66.48	60.95	70.95	69.76	66.46	8171.88	8075.17	7437.62	8449.68	8271.61	7778.32
PRP40 pre-mRNA processing factor 40 homolog B (S. cerevisiae)	Prpf40b	100766649	7.57	7.54	9.92	9.73	6.97	7.88	878.79	886.67	1135.27	1110.25	832.13	905.69
pre-mRNA processing factor 4B	Prpf4b	100759963	13.69	13.89	12.32	14.12	15.37	13.55	3143.73	3234.64	2899.03	3268.15	3558.28	3210.59
pre-mRNA processing factor 8	Prpf8	100766853	529.56	515.94	523.18	562.13	574.87	595.87	18527.44	18190.87	18613.91	19721.34	19487.76	19986.04
peripherin	Prph	100768595	0.10	0.14	0.02	0.00	0.00	0.00	46.33	41.18	14.91	16.22	6.21	10.28
peripherin 2 (retinal degeneration, slow)	Prph2	100768436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoribosyl pyrophosphate synthetase 1	Prps1	100759532	131.60	132.27	119.06	120.15	122.41	123.59	6224.42	6311.90	5645.28	5646.26	5757.63	5836.08
phosphoribosyl pyrophosphate synthetase 1-like 1	Prps1l1	100759137	0.94	0.72	0.38	0.84	0.57	0.64	33.42	26.54	18.63	31.29	24.84	24.30
phosphoribosyl pyrophosphate synthetase 2	Prps2	100767893	27.45	28.10	30.35	31.85	35.66	32.67	2880.17	2981.18	3197.13	3333.05	3690.76	3419.96
phosphoribosyl pyrophosphate synthetase-associated protein 1	Prpsap1	100761764	28.40	27.89	28.81	29.25	29.73	32.73	1237.29	1231.64	1285.56	1273.65	1265.79	1383.31
phosphoribosyl pyrophosphate synthetase-associated protein 2	Prpsap2	100758809	13.35	12.90	12.66	12.30	14.32	14.19	679.03	682.62	643.40	593.37	690.34	698.20
proline rich 11	Prr11	100755467	12.59	12.31	4.92	6.30	7.86	7.36	1641.36	1604.05	645.89	818.20	1022.57	959.91
proline rich 12	Prr12	100767720	5.87	5.33	5.36	3.48	2.57	2.74	1289.70	1184.97	1196.13	783.43	579.59	606.60
proline rich 13	Prr13	100766907	126.18	129.75	147.76	136.66	126.29	137.47	3635.15	3717.78	4274.02	3836.02	3599.68	3916.27
proline rich 14	Prr14	100752068	16.62	16.44	17.20	15.80	13.82	14.30	1588.20	1561.05	1659.43	1529.77	1397.23	1386.12
proline rich 14-like	Prr14l	100771689	6.20	6.49	6.96	7.99	7.32	7.43	1765.93	1861.18	2004.73	2298.14	2085.50	2138.52
proline rich 15	Prr15	100757908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich 15-like	Prr15l	100753008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich 16	Prr16	100768947	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich 18	Prr18	100755994	0.28	0.36	0.11	0.32	0.10	0.03	12.15	15.56	4.97	16.22	6.21	2.80
proline rich 19	Prr19	100755015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich 22	Prr22	100772837	1.71	1.62	1.48	0.90	0.64	0.57	94.94	88.76	88.19	55.63	32.08	35.52
proline rich 27	Prr27	100756200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich 29	Prr29	100769673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00
proline rich 3	Prr3	100757039	46.84	43.98	46.65	43.78	30.97	36.38	2406.22	2281.18	2420.83	2257.58	1603.19	1873.08
proline rich 30	Prr30	100764438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline rich 32	Prr32	100763801	0.08	0.19	0.00	0.00	0.00	0.05	1.52	4.58	2.48	0.00	2.07	0.93
proline rich 34	Prr34	100754069	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	1.16	0.00	0.93
proline rich 35	Prr35	100759041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

proline rich 5 (renal)	Prr5	100752193	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
proline rich 5 like	Prr5l	100753398	1.62	1.77	1.55	2.06	2.04	2.28	104.82	117.12	100.61	135.59	134.55	149.55
proline rich 9	Prr9	100771146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline-rich coiled-coil 1	Prrc1	100753590	6.75	6.52	7.01	6.78	6.80	6.72	311.41	313.86	336.61	323.34	310.50	318.72
proline-rich coiled-coil 2A	Prrc2a	100771999	57.40	55.67	51.06	38.57	24.45	26.22	9918.82	9709.42	8976.56	6707.83	4312.79	4617.27
proline-rich coiled-coil 2B	Prrc2b	100755319	18.53	17.90	18.83	18.05	14.73	15.07	5884.91	5740.92	6022.88	5683.34	4597.41	4776.16
proline-rich coiled-coil 2C	Prrc2c	100750698	35.95	35.98	33.40	38.21	37.79	35.59	10047.94	10256.61	9564.07	10859.08	10676.92	10028.07
proline rich Gla (G-carboxyglutamic acid) 1	Prrg1	100762987	13.61	13.84	13.96	14.09	17.41	14.06	413.95	424.58	431.00	426.48	534.05	414.99
proline rich Gla (G-carboxyglutamic acid) 2	Prrg2	100766552	1.19	0.84	1.19	0.75	0.80	1.13	70.64	55.82	70.80	50.99	47.61	63.56
proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane)	Prrg3	100772670	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	Prrg4	100768490	0.00	0.00	0.05	0.00	0.00	0.00	0.00	2.75	1.24	0.00	1.03	2.80
proline-rich transmembrane protein 2	Prrt2	100754337	0.06	0.05	0.03	0.07	0.06	0.03	5.32	5.49	2.48	5.79	5.17	2.80
proline-rich transmembrane protein 3	Prrt3	100751627	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proline-rich transmembrane protein 4	Prrt4	100760257	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
paired related homeobox 1	Prrx1	100753942	20.71	22.39	36.74	40.12	32.37	31.67	995.76	1066.93	1782.39	1979.44	1612.51	1530.05
paired related homeobox 2	Prrx2	100771545	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protease, serine, 12 (neurotrypsin, motopsin)	Prss12	100762982	0.01	0.01	0.00	0.03	0.01	0.01	9.11	9.15	7.45	4.64	6.21	2.80
protease, serine, 16 (thymus)	Prss16	100770760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protease, serine, 21 (testisin)	Prss21	100770108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protease, serine, 22	Prss22	100775082	0.48	0.41	0.00	0.04	0.02	0.07	18.99	14.64	0.00	2.32	1.03	3.74
protease, serine, 23	Prss23	100756010	0.04	0.09	0.03	0.00	0.02	0.04	1.52	2.75	1.24	0.00	1.03	1.87
protease, serine 27	Prss27	100773057	16.37	14.80	11.31	8.84	6.09	6.53	707.13	667.97	495.59	389.40	283.59	291.62
protease, serine, 35	Prss35	100761989	7.15	8.04	12.31	10.99	11.23	11.18	490.66	549.94	852.07	790.38	779.34	770.17
protease, serine, 36	Prss36	100758312	0.25	0.23	0.21	0.28	0.15	0.15	55.45	51.24	43.47	55.63	34.15	35.52
protease, serine, 37	Prss37	100751360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protease, serine, 38	Prss38	100764762	0.02	0.00	0.07	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.00
protease, serine, 41	Prss41	100772113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
protease, serine, 45	Prss45	100771310	0.03	0.00	0.05	0.00	0.00	0.11	0.76	0.00	1.24	1.16	0.00	2.80
protease, serine, 46	Prss46	100766613	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protease, serine, 48	Prss48	100764364	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	1.24	0.00	0.00	0.00
protease, serine, 50	Prss50	100771600	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protease, serine, 53	Prss53	100758028	0.06	0.09	0.07	0.09	0.08	0.03	17.47	21.05	23.60	25.50	13.45	31.78
protease, serine, 54	Prss54	100760622	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.92	1.24	1.16	2.07	0.00
protease, serine, 56	Prss56	100764420	0.38	0.35	0.05	0.15	0.04	0.06	29.62	27.45	6.21	12.75	6.21	4.67
protease, serine, 58	Prss58	100751468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protogenin	Prtg	100755217	0.48	0.43	0.41	0.54	0.69	0.67	54.69	55.82	50.93	70.69	78.66	76.64
prune exopolyphosphatase	Prune	100766866	21.07	20.88	21.77	24.18	22.75	24.48	1525.15	1518.96	1561.30	1723.31	1629.07	1753.44
prune homolog 2 (Drosophila)	Prune2	100767704	65.89	62.58	74.59	82.90	90.42	88.56	9718.30	9451.38	11262.00	12748.12	13793.26	13724.69
periaxin	Prx	100763689	0.11	0.10	0.04	0.03	0.04	0.06	13.67	13.73	4.97	3.48	5.17	7.48
prosaposin	Psap	100760327	289.38	277.63	341.05	325.69	294.45	336.82	25057.20	24285.90	30028.69	28307.78	25315.77	29057.01
prosaposin-like 1	Psapl1	100768102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphoserine aminotransferase 1	Psat1	100760751	186.22	185.58	193.47	191.82	204.13	206.83	7364.49	7300.14	7705.91	7631.49	7882.46	8126.02

prostate stem cell antigen	Psca	100767033	0.85	0.55	0.54	0.43	0.38	0.26	23.55	15.56	18.63	17.38	7.24	7.48
pleckstrin and Sec7 domain containing	Psd	100774898	0.97	0.98	1.15	0.85	0.59	0.61	157.22	159.22	191.28	171.52	113.85	127.12
pleckstrin and Sec7 domain containing 2	Psd2	100758960	0.01	0.00	0.02	0.00	0.02	0.00	2.28	0.00	1.24	0.00	1.03	0.00
pleckstrin and Sec7 domain containing 3	Psd3	100754008	13.71	13.68	19.54	22.13	12.76	13.02	3635.91	3555.82	5111.19	5789.96	3249.86	3326.49
pleckstrin and Sec7 domain containing 4	Psd4	100758617	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
presenilin 1	Psen1	100770550	40.14	39.33	46.13	46.02	44.70	44.85	3117.91	3058.96	3598.33	3561.36	3434.08	3473.23
presenilin 2	Psen2	100752237	5.71	6.06	5.42	5.23	3.42	4.08	327.36	344.97	304.31	293.21	192.51	232.73
presenilin enhancer gamma secretase subunit	Psenen	103161443	7.01	5.81	7.55	5.11	6.05	11.54	141.27	128.10	236.00	205.13	161.46	202.82
pregnancy specific beta-1-glycoprotein 9	Psg9	100771218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PC4 and SFRS1 interacting protein 1	Psip1	100763870	148.56	164.08	136.35	156.63	168.33	154.26	7362.21	8084.32	6889.86	7954.83	8291.28	7606.34
protein serine kinase H1	Pskh1	100752023	13.37	13.55	18.49	18.24	17.24	18.98	942.59	966.28	1293.01	1235.41	1117.79	1290.78
proteasome (prosome, macropain) subunit, alpha type, 1	Psma1	100773907	120.83	117.70	120.37	126.09	134.44	133.24	4089.36	4027.98	4069.08	4169.79	4452.51	4440.62
proteasome (prosome, macropain) subunit, alpha type, 2	Psma2	100750876	214.87	203.45	188.15	207.19	230.69	226.37	6038.34	5812.29	5322.34	5667.12	6377.59	6188.45
proteasome (prosome, macropain) subunit, alpha type, 3	Psma3	100758978	233.91	230.31	205.99	207.66	231.42	226.34	6344.43	6424.45	5646.53	5560.50	6211.99	5923.94
proteasome (prosome, macropain) subunit, alpha type, 4	Psma4	100756711	196.14	202.34	202.41	217.49	222.67	215.36	5371.46	5647.59	5619.20	5845.59	6048.46	5824.86
proteasome (prosome, macropain) subunit, alpha type, 5	Psma5	100774039	163.65	164.46	156.03	164.42	163.59	168.49	4291.40	4369.29	4121.24	4227.74	4242.41	4355.56
proteasome (prosome, macropain) subunit, alpha type, 6	Psma6	100754440	144.37	144.42	138.82	149.08	156.16	156.24	3315.39	3381.96	3193.41	3406.07	3546.90	3534.92
proteasome (prosome, macropain) subunit, alpha type, 7	Psma7	100769350	552.41	544.87	474.17	437.33	352.90	394.22	10868.25	10728.77	9179.02	8249.19	6906.46	7618.49
proteasome (prosome, macropain) subunit, alpha type, 8	Psma8	100769387	2.11	2.14	1.22	1.33	4.61	6.24	97.22	102.48	54.65	60.26	226.66	273.86
proteasome (prosome, macropain) subunit, beta type, 1	Psmb1	100751285	159.64	159.42	163.77	160.62	165.56	174.65	3925.30	3998.70	4180.86	4024.93	4214.46	4325.65
proteasome (prosome, macropain) subunit, beta type, 10	Psmb10	100751737	16.09	14.83	15.95	11.90	7.98	8.92	452.69	427.32	469.51	325.66	225.63	249.56
proteasome (prosome, macropain) subunit, beta type, 11	Psmb11	100765934	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
proteasome (prosome, macropain) subunit, beta type, 2	Psmb2	100767174	167.14	166.75	169.38	149.87	151.31	151.16	3641.23	3688.50	3687.76	3244.98	3307.82	3259.19
proteasome (prosome, macropain) subunit, beta type, 3	Psmb3	100756232	294.10	289.90	193.87	185.07	159.11	172.83	4704.59	4623.66	3095.28	2913.52	2591.61	2760.08
proteasome (prosome, macropain) subunit, beta type, 4	Psmb4	100771179	299.55	294.54	276.18	264.22	265.93	292.22	7205.75	7075.95	6563.19	6127.21	6220.27	6869.82
proteasome (prosome, macropain) subunit, beta type, 5	Psmb5	100769586	143.26	134.29	141.95	117.55	106.79	120.50	3868.33	3655.56	3830.60	3137.20	2863.81	3220.87
proteasome (prosome, macropain) subunit, beta type, 6	Psmb6	100769450	79.79	79.95	80.00	78.49	65.15	72.93	1645.16	1621.44	1607.26	1539.05	1317.54	1458.08
proteasome (prosome, macropain) subunit, beta type, 7	Psmb7	100771916	90.97	86.29	138.68	138.99	146.65	158.01	7493.61	7213.21	11712.88	11342.35	12007.91	12720.85
proteasome (prosome, macropain) subunit, beta type, 8	Psmb8	100751746	18.54	20.09	22.36	19.13	17.77	19.28	887.14	971.77	1054.53	900.48	858.00	923.45

proteasome (prosome, macropain) subunit, beta type, 9	Psmb9	100767386	11.14	11.83	10.80	9.40	8.87	8.42	244.57	275.43	254.63	217.88	198.72	198.15
proteasome (prosome, macropain) 26S subunit, ATPase, 1	Psmc1	100770051	113.36	119.79	114.05	121.67	127.49	132.62	5025.11	5378.57	5083.86	5297.42	5571.33	5741.68
proteasome (prosome, macropain) 26S subunit, ATPase, 2	Psmc2	100757596	132.23	135.95	131.90	134.82	141.30	141.85	4959.03	5100.40	4905.00	4916.14	5215.30	5212.65
proteasome (prosome, macropain) 26S subunit, ATPase, 3	Psmc3	100689203	122.21	122.40	123.04	114.34	102.69	106.38	5597.80	5675.04	5732.23	5131.70	4619.14	4763.08
PSMC3 interacting protein	Psmc3ip	100758855	49.20	49.43	30.42	30.79	33.13	33.08	2119.11	2141.18	1286.80	1248.16	1388.95	1388.92
proteasome (prosome, macropain) 26S subunit, ATPase, 4	Psmc4	100766608	138.55	135.64	148.44	129.83	104.20	121.35	5726.93	5756.48	6289.93	5501.39	4379.03	5001.42
proteasome (prosome, macropain) 26S subunit, ATPase, 5	Psmc5	100771099	62.36	58.64	59.80	58.77	56.39	60.26	2431.29	2311.37	2383.56	2313.20	2216.94	2347.89
proteasome (prosome, macropain) 26S subunit, ATPase, 6	Psmc6	100762558	70.35	69.82	67.21	73.18	78.87	77.86	3319.19	3328.89	3205.83	3396.79	3689.73	3626.52
proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	Psmd10	100751016	28.97	30.94	25.51	27.70	33.88	35.94	790.68	844.58	741.53	789.22	940.80	958.04
proteasome (prosome, macropain) 26S subunit, non-ATPase, 11	Psmd11	100773369	74.61	73.66	73.65	74.93	76.48	74.99	6146.95	6024.58	6026.61	6055.36	6210.95	6082.83
proteasome (prosome, macropain) 26S subunit, non-ATPase, 12	Psmd12	100767177	78.17	84.84	82.97	84.63	84.26	83.50	3469.58	3838.57	3763.52	3753.74	3787.01	3692.88
proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	Psmd13	100772429	241.06	232.52	265.91	255.42	264.98	281.75	3796.94	3693.99	4197.01	3909.04	4044.73	4331.26
proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	Psmd14	100764392	113.10	111.28	121.72	113.41	126.56	130.12	4521.54	4659.35	4957.17	4536.01	4926.53	4944.40
proteasome (prosome, macropain) 26S subunit, non-ATPase, 2	Psmd2	100750425	126.58	121.73	134.41	139.56	140.93	150.84	11267.00	11038.05	12213.44	12571.96	12568.87	13274.18
proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	Psmd4	103161668	156.32	153.51	157.28	149.72	132.24	142.29	5470.20	5397.78	5518.59	5162.99	4639.84	4957.49
proteasome (prosome, macropain) 26S subunit, non-ATPase, 5	Psmd5	100768399	39.39	38.72	41.16	44.51	45.21	46.88	2300.64	2295.82	2387.29	2628.43	2719.94	2758.21
proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	Psmd6	100751274	56.75	58.73	50.68	54.51	63.38	59.64	2120.63	2211.64	1948.83	2067.51	2399.10	2213.30
proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	Psmd7	100761962	91.81	95.48	90.13	89.06	82.09	84.68	4081.00	4309.81	4098.89	4022.61	3677.31	3718.12
proteasome (prosome, macropain) 26S subunit, non-ATPase, 8	Psmd8	100764857	68.76	68.53	67.10	72.85	72.21	78.07	1898.85	1852.94	1807.24	1876.29	1860.91	2025.43
proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	Psmd9	100768499	81.36	76.77	79.92	66.22	49.60	55.11	2128.99	1999.35	2074.29	1729.11	1361.01	1499.21
proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	Psme1	100761736	76.25	80.25	99.14	93.42	88.68	94.33	2380.40	2546.54	3161.11	2881.07	2760.31	2884.39
proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	Psme2	100760978	121.65	125.70	120.27	125.44	118.91	132.33	2759.41	2844.84	2715.20	2725.78	2681.65	2914.30
proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	Psme3	100762340	113.77	116.87	82.74	80.32	76.34	79.30	8604.82	8819.09	6235.28	5949.89	5702.77	5935.15
proteasome (prosome, macropain) activator subunit 4	Psme4	100773419	16.28	16.10	20.03	23.05	24.83	23.55	3386.79	3393.86	4184.59	4797.93	5089.03	4899.54
proteasome (prosome, macropain) inhibitor subunit 1 (PI31)	Psmf1	100761835	19.63	19.40	22.41	19.15	15.79	18.28	1063.35	1016.60	1203.58	1036.07	854.90	1014.12
proteasome (prosome, macropain) assembly chaperone 1	Psmg1	100774697	107.86	102.49	122.85	116.80	114.94	129.87	2836.88	2734.12	3267.93	3027.10	3019.06	3380.70
proteasome (prosome, macropain) assembly chaperone 2	Psmg2	100761174	18.38	16.77	17.11	19.00	21.33	20.02	519.52	478.56	478.20	526.15	584.77	558.00

proteasome (prosome, macropain) assembly chaperone 3	Psmg3	100763268	36.18	36.42	38.19	28.38	21.86	24.78	808.15	817.12	852.07	645.52	492.65	560.80
proteasome (prosome, macropain) assembly chaperone 4	Psmg4	100758919	19.46	16.68	16.90	13.17	12.67	11.34	247.61	217.78	219.85	159.93	160.42	139.27
psoriasis susceptibility 1 candidate 2	Psors1c 2	100759624	0.24	0.20	0.14	0.13	0.05	0.08	11.39	17.39	12.42	8.11	3.10	5.61
paraspeckle component 1	Pspc1	100751937	20.80	21.07	24.81	26.09	24.69	25.08	2129.75	2173.20	2546.28	2663.20	2505.70	2551.65
phosphoserine phosphatase	Psph	100755202	81.59	80.44	100.88	90.27	86.96	91.71	3181.71	3140.40	3943.63	3496.46	3424.77	3628.39
persephin	Pspn	100761935	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
proline/serine-rich coiled-coil 1	Psrc1	100774619	18.30	17.63	14.43	12.79	13.48	13.27	928.16	903.14	716.68	639.72	675.85	677.64
phosphoseryl-tRNA kinase	Pstk	100766247	4.71	5.64	4.81	5.43	6.83	6.43	159.50	179.35	154.02	173.84	222.52	220.58
proline-serine-threonine phosphatase interacting protein 1	Pstpip1	100765031	0.15	0.10	0.09	0.08	0.06	0.16	20.51	22.88	34.78	25.50	27.94	28.97
proline-serine-threonine phosphatase interacting protein 2	Pstpip2	100770711	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
platelet-activating factor receptor	Ptafr	100772043	0.01	0.03	0.00	0.00	0.00	0.02	0.76	1.83	0.00	0.00	0.00	0.93
protein prenyltransferase alpha subunit repeat containing 1	Ptar1	100765403	8.06	8.28	6.57	7.54	7.51	7.38	173.93	181.18	144.08	164.57	168.70	158.89
polypyrimidine tract binding protein 1	Ptbp1	100752134	150.16	144.49	134.81	111.44	82.79	91.86	9240.55	8863.93	8190.32	6652.20	4913.08	5487.45
polypyrimidine tract binding protein 2	Ptbp2	100766066	2.51	2.56	2.79	3.44	3.13	2.96	233.94	256.21	268.29	317.54	289.80	272.92
polypyrimidine tract binding protein 3	Ptbp3	100771699	46.37	44.58	31.57	37.43	40.30	41.05	6464.44	6521.44	4649.13	5398.25	5917.02	6032.36
pentatricopeptide repeat domain 1	Ptcd1	100752650	12.57	12.73	12.88	12.30	10.21	10.19	897.02	908.63	905.48	873.83	711.04	716.89
pentatricopeptide repeat domain 2	Ptcd2	100757791	18.07	19.89	17.24	19.13	18.49	18.98	876.51	971.77	842.13	937.57	883.88	904.76
pentatricopeptide repeat domain 3	Ptcd3	100763681	57.48	58.71	54.70	62.08	64.81	58.96	4507.11	4682.23	4358.48	4845.44	5045.56	4583.62
patched 1	Ptch1	100763926	5.85	5.68	6.77	6.58	6.51	6.76	1165.13	1161.18	1382.44	1336.23	1345.48	1359.01
patched 2	Ptch2	100753887	0.02	0.01	0.02	0.00	0.00	0.04	1.52	0.92	6.21	0.00	0.00	3.74
patched domain containing 1	Ptchd1	100755544	0.02	0.00	0.00	0.02	0.01	0.01	2.28	0.00	0.00	2.32	1.03	0.93
patched domain containing 2	Ptchd2	100751919	0.02	0.02	0.03	0.04	0.01	0.04	3.04	2.75	3.73	4.64	1.03	6.54
patched domain containing 3	Ptchd3	100752652	0.19	0.10	0.02	0.07	0.04	0.03	26.58	13.73	2.48	9.27	5.17	4.67
patched domain containing 4	Ptchd4	100751000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pre T-cell antigen receptor alpha	Ptcra	100773332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
phosphatidylserine synthase 1	Ptdss1	100762075	24.19	24.27	31.14	34.08	34.20	35.54	1866.19	1915.17	2441.94	2615.68	2656.81	2711.48
phosphatidylserine synthase 2	Ptdss2	100689448	41.35	42.36	47.23	44.96	40.07	45.40	1096.02	1071.50	1235.88	1124.15	919.07	1074.87
phosphatase and tensin homolog	Pten	100764294	22.56	23.44	18.29	20.19	19.05	18.98	990.44	1083.40	828.47	884.26	854.90	866.44
phosphotriesterase related	Pter	100767284	5.12	5.47	6.22	6.76	7.88	6.50	266.60	290.07	321.70	345.36	390.19	332.74
pancreas specific transcription factor, 1a	Ptf1a	100755545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin D2 receptor 2	Ptgdr2	100750815	0.29	0.47	0.26	0.43	0.43	0.30	29.62	34.77	23.60	35.93	28.98	30.84
prostaglandin D2 synthase 21kDa (brain)	Ptgds	100762704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin E receptor 1 (subtype EP1), 42kDa	Ptger1	100753028	3.43	3.53	3.28	3.65	3.25	3.35	329.64	348.63	316.73	333.77	280.48	296.29
prostaglandin E receptor 2 (subtype EP2), 53kDa	Ptger2	100774710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin E receptor 3 (subtype EP3)	Ptger3	100752421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin E receptor 4 (subtype EP4)	Ptger4	100769862	1.37	1.41	1.55	1.67	1.46	1.48	157.22	161.96	175.13	194.70	159.39	167.31
prostaglandin E synthase	Ptges	100770965	0.42	0.18	0.12	0.23	0.19	0.23	12.15	5.49	6.21	5.79	10.35	12.15
prostaglandin E synthase 2	Ptges2	100758776	27.25	25.85	28.99	25.45	19.73	22.88	982.84	937.91	1024.72	907.43	724.49	828.12

prostaglandin E synthase 3 (cytosolic)	Ptges3	100774202	315.90	328.10	322.10	336.96	335.10	346.74	10622.16	11072.82	10840.93	11182.42	11125.07	11642.25
prostaglandin E synthase 3 (cytosolic)-like	Ptges3l	103160894	6.10	5.27	4.36	4.98	5.12	4.70	186.85	208.63	147.81	150.66	174.91	162.63
prostaglandin F receptor (FP)	Ptgfr	100757080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin F2 receptor inhibitor	Ptgfrn	100771669	62.36	61.35	78.89	77.98	77.65	83.17	7820.22	7688.11	9987.62	9842.71	9758.89	10552.42
prostaglandin I2 (prostacyclin) receptor (IP)	Ptgir	100763042	0.00	0.00	0.00	0.00	0.00	0.00	1.52	4.58	17.39	12.75	12.42	12.15
prostaglandin I2 (prostacyclin) synthase	Ptgis	100757024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostaglandin reductase 1	Ptgr1	100756865	78.26	78.44	67.85	70.18	63.26	66.67	3095.88	3155.04	2663.03	2760.55	2539.86	2644.18
prostaglandin reductase 2	Ptgr2	100750573	16.61	18.06	16.29	15.77	17.29	17.93	1320.08	1459.48	1300.46	1237.73	1347.55	1416.96
prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	Ptgs1	100770867	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	Ptgs2	100751220	17.88	16.70	11.51	10.27	10.25	9.68	1372.49	1299.35	893.06	811.24	803.15	766.43
parathyroid hormone	Pth	100755014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
parathyroid hormone 1 receptor	Pth1r	100769401	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
parathyroid hormone 2	Pth2	103164197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
parathyroid hormone 2 receptor	Pth2r	100760175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
parathyroid hormone-like hormone	Pthlh	100758030	2.03	2.01	1.68	1.28	1.62	1.34	88.11	86.01	70.80	56.79	67.27	57.01
protein tyrosine kinase 2	Ptk2	100759464	24.98	25.49	23.98	26.45	25.71	25.58	3253.11	3381.05	3194.65	3437.36	3352.32	3350.79
protein tyrosine kinase 2 beta	Ptk2b	100758086	0.20	0.25	0.01	0.00	0.01	0.00	26.58	37.52	7.45	4.64	10.35	8.41
protein tyrosine kinase 6	Ptk6	100760877	0.04	0.07	0.00	0.00	0.03	0.00	3.04	3.66	0.00	0.00	1.03	0.00
prothymosin, alpha	Ptma	100763157	1118.86	1241.53	1366.83	1315.32	1161.30	1167.74	22524.90	25119.50	27617.80	26215.93	23387.59	23575.17
pleiotrophin	Ptn	100770710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
prostate tumor overexpressed 1	Ptov1	100767703	18.43	17.95	20.98	16.37	9.92	10.83	1667.19	1601.31	1876.79	1459.08	957.36	1002.90
protein tyrosine phosphatase type IVA, member 1	Ptp4a1	100763215	68.39	69.06	103.61	107.20	121.68	124.10	4867.89	4831.38	7359.36	7663.94	8583.14	8811.13
protein tyrosine phosphatase type IVA, member 2	Ptp4a2	100755257	141.78	144.46	141.01	150.99	178.57	181.47	9395.50	9558.44	9554.13	10173.00	11895.10	12113.32
protein tyrosine phosphatase type IVA, member 3	Ptp4a3	100772907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase domain containing 1	Ptpdc1	100758995	17.15	18.59	19.17	21.52	21.95	22.09	1768.21	1905.10	1993.55	2197.31	2263.52	2262.84
protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A	Ptpla	100772448	5.94	6.45	5.21	5.26	4.94	4.27	146.59	153.73	126.69	126.32	131.44	105.62
protein tyrosine phosphatase-like A domain containing 1	Ptplad1	100752449	28.00	28.09	34.54	37.21	40.57	40.42	1788.71	1796.21	2208.43	2314.36	2521.23	2567.54
protein tyrosine phosphatase-like A domain containing 2	Ptplad2	100774830	0.01	0.00	0.01	0.00	0.01	0.00	1.52	0.00	1.24	4.64	2.07	0.00
protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	Ptplb	100765668	5.82	6.15	5.25	5.64	6.93	6.05	581.81	616.73	539.07	564.39	676.88	595.38
protein tyrosine phosphatase, mitochondrial 1	Ptpmt1	100763640	48.83	50.16	47.75	52.82	53.52	52.26	1267.67	1302.09	1238.36	1328.12	1330.99	1316.01
protein tyrosine phosphatase, non-receptor type 1	Ptpn1	100761071	18.48	17.81	16.04	14.14	12.69	13.16	2245.96	2164.05	1955.04	1725.63	1564.90	1612.31

protein tyrosine phosphatase, non-receptor type 11	Ptpn11	100771077	65.82	65.19	65.60	69.50	68.36	68.25	10904.70	10974.91	11057.06	11596.15	11382.78	11347.82
protein tyrosine phosphatase, non-receptor type 12	Ptpn12	100758766	33.49	32.74	34.86	39.14	36.84	36.57	3101.20	3036.08	3197.13	3588.02	3370.95	3359.20
protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)	Ptpn13	100758903	8.37	8.30	3.25	3.45	3.18	2.83	1119.56	1130.07	449.64	461.25	411.92	371.06
protein tyrosine phosphatase, non-receptor type 14	Ptpn14	100761406	11.25	11.20	11.99	9.92	7.93	9.09	1402.11	1392.68	1494.23	1263.22	1028.78	1150.58
protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	Ptpn18	100773051	0.92	1.02	0.73	0.44	0.61	0.67	57.72	59.48	39.75	20.86	40.36	40.19
protein tyrosine phosphatase, non-receptor type 2	Ptpn2	103163089	29.57	33.81	30.63	32.46	29.68	30.88	1247.16	1422.88	1278.11	1343.19	1249.23	1284.24
protein tyrosine phosphatase, non-receptor type 20B	Ptpn20b	100758513	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase, non-receptor type 21	Ptpn21	100770909	12.52	12.36	14.35	14.20	12.09	12.65	1228.93	1276.47	1546.40	1679.27	1683.92	1699.23
protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	Ptpn22	100762639	0.01	0.00	0.00	0.02	0.08	0.04	12.15	8.24	12.42	9.27	18.63	14.95
protein tyrosine phosphatase, non-receptor type 23	Ptpn23	100764470	15.00	13.81	13.76	10.78	7.95	8.71	2369.00	2197.91	2222.09	1716.36	1285.45	1413.22
protein tyrosine phosphatase, non-receptor type 3	Ptpn3	100765227	0.01	0.02	0.01	0.01	0.01	0.01	17.47	16.47	33.54	23.18	27.94	27.11
protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	Ptpn4	100757007	1.79	1.77	2.07	2.09	2.67	2.42	527.88	511.50	593.72	633.93	774.17	715.02
protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)	Ptpn5	100753442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
protein tyrosine phosphatase, non-receptor type 6	Ptpn6	100758996	0.15	0.14	0.09	0.34	0.27	0.11	9.87	8.24	4.97	19.70	16.56	7.48
protein tyrosine phosphatase, non-receptor type 7	Ptpn7	100762602	0.01	0.10	0.00	0.00	0.00	0.00	3.04	7.32	1.24	0.00	0.00	0.00
protein tyrosine phosphatase, non-receptor type 9	Ptpn9	100765899	50.01	50.32	67.65	73.63	74.46	73.39	4899.79	4974.12	6691.12	7169.08	7240.76	7175.46
protein tyrosine phosphatase, receptor type, A	Ptpra	100770038	32.01	33.62	35.22	36.74	39.32	38.82	2594.59	2766.15	2912.69	2994.65	3211.56	3151.71
protein tyrosine phosphatase, receptor type, B	Ptprb	100764837	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase, receptor type, C	Ptprc	100761948	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase, receptor type, C-associated protein	Ptprcap	100764789	0.09	0.06	0.08	0.00	0.00	0.00	6.84	4.58	1.24	4.64	6.21	1.87
protein tyrosine phosphatase, receptor type, D	Ptprd	100760691	0.04	0.01	0.00	0.00	0.00	0.00	4.56	1.83	0.00	0.00	0.00	0.00
protein tyrosine phosphatase, receptor type, E	Ptpre	100756593	0.06	0.02	0.02	0.00	0.00	0.00	4.56	0.92	1.24	0.00	0.00	0.00
protein tyrosine phosphatase, receptor type, F	Ptprf	100766403	0.01	0.02	0.00	0.00	0.00	0.00	3.04	4.58	0.00	0.00	1.03	0.00
protein tyrosine phosphatase, receptor type, G	Ptprg	100761353	7.95	8.23	9.02	9.88	10.18	10.16	1971.00	2019.48	2218.37	2459.23	2524.33	2525.48
protein tyrosine phosphatase, receptor type, H	Ptprh	100764809	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
protein tyrosine phosphatase, receptor type, J	Ptprj	100765394	2.38	2.15	2.05	2.53	2.51	2.45	291.66	262.61	257.11	314.07	311.53	302.83
protein tyrosine phosphatase, receptor type, M	Ptprm	100761852	13.35	13.10	22.15	23.03	21.62	20.82	1914.80	1886.80	3158.63	3232.23	3081.15	2954.49

protein tyrosine phosphatase, receptor type, N	Ptprn	100768982	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
protein tyrosine phosphatase, receptor type, N polypeptide 2	Ptprn2	100752531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase, receptor type, O	Ptpro	100752125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
protein tyrosine phosphatase, receptor type, Q	Ptprq	100774028	0.19	0.17	0.38	0.50	0.54	0.50	41.77	38.43	108.06	128.64	123.16	112.16
protein tyrosine phosphatase, receptor type, R	Ptprr	100764538	0.36	0.32	0.33	0.23	0.13	0.11	29.62	28.37	27.33	18.54	10.35	9.35
protein tyrosine phosphatase, receptor type, S	Ptprs	100770533	20.14	20.76	19.96	14.72	10.45	10.98	3914.67	4062.75	3931.20	2883.39	2059.62	2155.35
protein tyrosine phosphatase, receptor type, T	Ptprt	100772443	0.01	0.00	0.06	0.08	0.00	0.00	0.76	0.00	6.21	12.75	0.00	0.00
protein tyrosine phosphatase, receptor type, U	Ptpru	100766961	0.42	0.41	0.34	0.26	0.16	0.16	74.43	77.78	64.59	52.15	33.12	27.11
protein tyrosine phosphatase, receptor-type, Z polypeptide 1	Ptprz1	100751453	9.59	9.54	14.14	15.13	17.36	17.49	1570.73	1573.86	2352.51	2529.92	2826.55	2857.29
polymerase I and transcript release factor	Ptrf	100756349	103.46	112.86	63.48	65.24	71.56	69.23	9480.57	10363.67	5860.17	5982.34	6500.75	6356.69
peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae)	Ptrh1	100760505	9.15	9.49	12.57	8.97	6.31	5.56	372.17	357.78	428.52	349.99	218.38	239.28
peptidyl-tRNA hydrolase 2	Ptrh2	100759231	73.83	71.50	46.65	48.10	39.78	40.98	1560.09	1511.64	1003.61	1018.69	836.27	871.11
peptidyl-tRNA hydrolase domain containing 1	Ptrhd1	100755437	9.11	9.26	8.45	4.71	4.20	5.27	254.45	269.02	229.79	151.82	132.48	158.89
6-pyruvoyltetrahydropterin synthase	Pts	100750756	14.57	14.37	15.93	15.50	16.57	16.05	609.91	598.43	634.71	613.07	662.39	644.92
pituitary tumor-transforming 1	Pttg1	100765630	59.30	61.33	58.13	55.97	66.39	62.30	1120.32	1149.28	1068.19	1012.90	1185.06	1125.34
pituitary tumor-transforming 1 interacting protein	Pttg1ip	100756425	43.14	42.60	41.51	40.65	38.94	42.73	2688.77	2692.94	2610.87	2531.08	2413.59	2662.87
pentraxin 3, long	Ptx3	100754664	9.61	10.38	22.29	25.36	16.38	15.47	483.07	526.14	1132.78	1273.65	811.43	777.65
pentraxin 4, long	Ptx4	100774180	0.07	0.07	0.02	0.13	0.10	0.03	3.80	4.58	2.48	6.95	6.21	1.87
poly-U binding splicing factor 60KDa	Puf60	100758296	66.36	62.73	57.48	53.43	49.58	54.04	3819.72	3619.87	3341.21	2970.31	2690.96	2955.43
pumilio RNA-binding family member 1	Pum1	100765502	29.69	30.13	29.12	29.21	26.40	27.39	4534.45	4602.62	4493.87	4464.16	4016.78	4191.06
pumilio RNA-binding family member 2	Pum2	100775042	45.00	44.19	38.83	44.15	45.97	44.71	7870.35	7797.00	6914.70	7764.76	7960.08	7857.77
purine-rich element binding protein G	Purg	100756819	1.05	1.14	1.47	1.34	1.53	1.52	77.47	86.01	95.64	91.55	106.60	98.14
pseudouridylate synthase 1	Pus1	100769856	57.83	53.86	53.52	47.42	38.63	40.84	2447.99	2271.11	2253.15	1952.78	1577.32	1701.10
pseudouridylate synthase 10	Pus10	100755208	20.70	20.98	23.34	25.35	27.86	25.66	1585.92	1618.69	1801.03	1956.26	2119.65	1949.72
pseudouridylate synthase 3	Pus3	100759712	20.40	19.74	19.64	20.74	24.86	23.47	905.37	866.54	864.49	912.07	1101.23	1063.65
pseudouridylate synthase 7 (putative)	Pus7	100763044	28.87	30.53	27.96	29.51	30.84	29.34	2725.99	2886.02	2659.31	2801.11	2899.00	2750.73
pseudouridylate synthase 7 homolog (S. cerevisiae)-like	Pus7l	100751602	5.52	5.08	4.45	5.40	5.13	5.10	432.18	397.12	342.82	412.58	398.47	369.19
pseudouridylate synthase-like 1	Pusl1	100769138	9.50	8.38	10.19	8.36	7.59	7.79	410.91	376.08	464.54	376.65	366.39	380.41
parvalbumin	Pvalb	100773380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poliovirus receptor related immunoglobulin domain containing	Pvrig	103161366	0.05	0.08	0.00	0.00	0.06	0.06	2.28	3.66	0.00	0.00	2.07	1.87
poliovirus receptor-related 1 (herpesvirus entry mediator C)	Pvrl1	100759778	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
poliovirus receptor-related 2 (herpesvirus entry mediator B)	Pvrl2	100751945	0.01	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	1.16	0.00	0.93
poliovirus receptor-related 3	Pvrl3	100761089	20.79	22.24	20.82	22.11	25.68	24.33	1979.36	2021.31	1998.52	2196.15	2442.57	2335.74

poliovirus receptor-related 4	Pvrl4	100765550	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
PWP1 homolog (S. cerevisiae)	Pwp1	100763407	101.93	104.29	118.53	125.13	126.30	123.69	5041.82	5142.49	5856.44	5995.09	6046.39	5909.92
PWP2 periodic tryptophan protein homolog (yeast)	Pwp2	100762902	33.48	31.23	30.90	29.68	24.81	28.38	3859.22	3679.35	3645.52	3499.94	2900.03	3336.77
PWWP domain containing 2A	Pwwp2a	100766797	5.04	5.71	4.56	4.90	5.15	5.05	463.32	523.40	424.79	439.23	457.46	464.53
PWWP domain containing 2B	Pwwp2b	100772421	7.71	7.14	6.41	5.66	4.66	5.27	458.76	424.58	383.80	338.40	278.41	314.98
PX domain containing 1	Pxdc1	100762877	3.72	3.47	2.52	2.38	2.44	2.14	167.10	150.98	111.79	106.62	107.64	91.60
peroxidasin homolog (Drosophila)	Pxdn	100774957	34.54	32.39	28.78	28.25	31.09	31.17	6658.12	6341.18	5678.82	5514.14	6024.66	6045.44
PX domain containing serine/threonine kinase	Pxk	100750396	56.04	53.64	53.59	61.01	57.55	56.11	3414.13	3312.42	3357.36	3746.79	3584.16	3405.94
peroxisomal membrane protein 2, 22kDa	Pxmp2	100774960	1.35	1.49	1.30	1.60	2.47	1.53	39.50	35.69	39.75	34.77	56.92	40.19
peroxisomal membrane protein 4, 24kDa	Pxmp4	100774286	11.38	11.60	9.91	10.14	13.05	11.82	398.76	409.02	357.72	358.11	447.11	429.95
paxillin	Pxn	100760740	12.20	10.87	11.30	11.17	9.26	9.75	1340.59	1223.40	1264.44	1236.57	1020.50	1090.76
2-phosphoxylose phosphatase 1	Pxylp1	100759373	3.93	3.93	2.98	3.21	2.95	3.14	322.80	324.84	247.18	261.92	242.19	256.10
pyrroline-5-carboxylate reductase 1	Pycr1	100767919	44.95	42.55	18.27	16.05	10.26	11.50	2729.78	2626.15	1129.06	978.13	623.06	686.05
pyrroline-5-carboxylate reductase family, member 2	Pycr2	100751666	20.07	18.53	18.84	12.93	8.40	10.36	909.17	852.81	873.19	601.48	401.57	489.77
pyrroline-5-carboxylate reductase-like	Pycrl	100758600	18.36	17.19	16.12	13.90	11.50	13.58	758.02	716.47	663.27	563.24	477.13	550.52
phosphorylase, glycogen; brain	Pygb	100769186	25.91	26.51	30.23	33.43	30.34	32.41	2839.16	2934.51	3419.47	3695.80	3357.50	3560.16
phosphorylase, glycogen, muscle	Pygm	100757350	0.19	0.18	0.16	0.13	0.20	0.15	25.06	21.05	17.39	15.07	25.87	20.56
pygopus family PHD finger 1	Pygo1	100754925	3.61	3.67	3.45	3.49	3.42	4.45	134.44	150.07	139.11	142.55	139.72	167.31
pygopus family PHD finger 2	Pygo2	100759420	24.64	23.28	23.74	23.27	22.70	23.74	1932.27	1831.90	1883.00	1825.30	1784.32	1877.75
pyridine nucleotide-disulphide oxidoreductase domain 1	Pyroxd1	100774005	12.81	13.03	9.86	12.08	12.21	11.15	964.61	987.32	775.06	928.29	938.73	876.72
pyridine nucleotide-disulphide oxidoreductase domain 2	Pyroxd2	100768114	0.16	0.16	0.12	0.18	0.10	0.21	22.03	19.22	16.15	25.50	14.49	28.04
PIGY upstream reading frame	Pyurf	100763403	56.86	52.39	68.21	75.07	69.40	70.86	1036.01	952.55	1225.94	1326.96	1231.63	1256.20
peptide YY	Pyy	100761659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
glutaminyl-tRNA synthetase	Qars	100763536	49.15	48.14	57.79	60.15	64.42	62.56	3781.75	3729.68	4467.79	4523.26	4904.80	4820.09
quinoid dihydropteridine reductase	Qdpr	100769495	36.14	35.19	37.52	33.00	35.78	33.81	1314.00	1271.90	1366.30	1193.69	1276.14	1218.81
QKI, KH domain containing, RNA binding	Qki	100750964	105.14	106.56	100.01	117.78	124.19	113.86	1158.30	1211.50	1104.22	1220.34	1344.45	1187.03
glutaminyl-peptide cyclotransferase	Qpct	100755692	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutaminyl-peptide cyclotransferase-like	Qpctl	100757515	4.62	5.63	4.76	3.58	2.95	3.76	156.47	175.69	150.29	117.05	102.46	136.46
quinolinate phosphoribosyltransferase	Qprt	100755205	0.07	0.00	0.00	0.05	0.00	0.00	2.28	0.00	0.00	1.16	0.00	0.00
pyroglutamylated RFamide peptide	Qrfp	100767808	0.04	0.05	0.07	0.00	0.00	0.05	0.76	0.92	1.24	0.00	0.00	0.93
pyroglutamylated RFamide peptide receptor	Qrfpr	100758197	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
glutamine-rich 1	Qrich1	100763820	30.02	30.12	29.90	32.95	30.45	29.76	2763.96	2804.58	2792.21	3052.59	2782.04	2751.67
glutamine rich 2	Qrich2	100761476	0.00	0.00	0.02	0.01	0.01	0.02	0.76	1.83	4.97	4.64	1.03	6.54
glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1	Qrsl1	100767432	17.66	17.19	16.99	18.52	17.38	16.93	1199.31	1184.97	1172.53	1263.22	1185.06	1151.51
glutamine and serine rich 1	Qser1	100771261	13.54	13.01	10.91	13.89	13.41	12.70	2448.75	2381.83	2013.42	2520.65	2436.36	2313.31
quiescin Q6 sulfhydryl oxidase 1	Qsox1	100754501	36.60	36.39	30.35	33.99	36.20	35.88	2268.74	2254.64	1904.12	2121.98	2223.15	2182.45

quiescin Q6 sulfhydryl oxidase 2	Qsox2	100760425	27.58	28.81	36.27	38.65	35.36	36.31	2086.45	2193.34	2789.73	2920.48	2689.93	2773.16
queuine tRNA-ribosyltransferase 1	Qtrt1	100771664	48.62	47.06	51.21	47.72	30.93	34.25	1505.41	1456.73	1624.65	1446.33	963.57	1052.44
queuine tRNA-ribosyltransferase domain containing 1	Qtrtd1	100774164	35.31	35.99	36.31	38.06	36.72	36.65	3426.28	3504.58	3532.49	3722.45	3540.69	3572.31
R3H domain and coiled-coil containing 1	R3hcc1	100771057	35.60	35.36	40.28	36.71	28.39	31.35	2060.63	2038.69	2312.77	2048.97	1619.75	1787.09
R3H domain and coiled-coil containing 1-like	R3hcc1l	100767534	4.46	4.30	3.83	4.41	4.86	4.75	621.30	601.18	535.34	607.27	673.78	665.48
R3H domain containing 1	R3hdm1	100765787	16.78	17.03	15.86	18.09	17.02	16.20	2158.61	2170.46	2038.26	2290.03	2146.56	2061.88
R3H domain containing 4	R3hdm4	100763874	33.48	32.02	32.26	30.55	24.35	27.13	1760.61	1701.05	1692.96	1594.67	1268.89	1416.02
R3H domain containing-like	R3hdml	100770937	0.04	0.00	0.00	0.00	0.06	0.00	0.76	0.92	0.00	0.00	1.03	0.00
RAB10, member RAS oncogene family	Rab10	100757662	101.95	102.83	97.28	101.43	118.81	112.23	8686.09	8799.88	8276.02	8446.21	9838.58	9337.35
RAB11A, member RAS oncogene family	Rab11a	100767114	31.35	32.08	32.84	33.86	36.32	36.08	2020.37	2074.38	2114.03	2166.02	2304.91	2315.18
RAB11B, member RAS oncogene family	Rab11b	100754543	56.92	50.48	49.27	35.50	26.22	30.29	2495.85	2221.70	2196.01	1550.63	1172.64	1344.06
RAB11 family interacting protein 1 (class I)	Rab11fip1	100750840	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
RAB11 family interacting protein 2 (class I)	Rab11fip2	100773115	2.24	2.65	2.30	3.19	3.61	3.43	145.07	168.37	140.36	202.81	228.73	208.43
RAB11 family interacting protein 3 (class II)	Rab11fip3	100758750	14.55	13.84	15.40	13.72	11.48	12.32	1942.14	1891.37	2086.71	1862.38	1546.27	1702.03
RAB11 family interacting protein 4 (class II)	Rab11fip4	100770486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB11 family interacting protein 5 (class I)	Rab11fip5	100769415	3.63	3.65	4.36	3.20	2.17	2.88	437.49	427.32	520.43	398.67	259.78	343.96
RAB12, member RAS oncogene family	Rab12	100762920	48.42	49.16	53.92	58.72	63.75	67.04	2391.03	2443.14	2655.58	2869.49	3088.40	3267.61
RAB13, member RAS oncogene family	Rab13	100765716	49.53	50.21	57.40	58.71	55.74	57.33	1494.01	1530.85	1757.55	1725.63	1655.98	1753.44
RAB14, member RAS oncogene family	Rab14	100751954	117.29	117.63	107.26	111.05	125.95	129.29	9466.14	9628.90	8798.94	9038.42	10210.14	10540.27
RAB15, member RAS oncogene family	Rab15	100751063	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
RAB17, member RAS oncogene family	Rab17	100768225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB18, member RAS oncogene family	Rab18	100770609	116.67	122.13	118.09	127.89	142.30	136.24	7846.04	8245.37	8035.06	8552.83	9477.37	9084.05
RAB19, member RAS oncogene family	Rab19	100770627	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB1A, member RAS oncogene family	Rab1a	100752891	149.86	150.79	134.83	136.64	143.19	151.71	5142.08	5210.20	4686.39	4779.39	5065.22	5355.66
RAB1B, member RAS oncogene family	Rab1b	100763898	56.30	54.75	67.16	62.14	49.86	55.87	1675.54	1662.62	2029.57	1828.78	1511.08	1641.28
RAB20, member RAS oncogene family	Rab20	100767205	4.64	4.08	4.89	3.97	3.23	4.38	157.98	131.76	172.65	142.55	113.85	142.07
RAB21, member RAS oncogene family	Rab21	100762794	30.39	30.36	29.67	30.96	32.71	32.68	2405.46	2425.75	2343.82	2429.10	2597.82	2574.08
RAB22A, member RAS oncogene family	Rab22a	100773378	37.20	35.80	32.19	32.56	40.17	38.37	2975.12	2896.08	2650.61	2713.03	3278.84	3158.25

RAB23, member RAS oncogene family	Rab23	100774694	29.43	30.49	27.28	32.28	32.75	31.05	3324.50	3414.91	3136.27	3658.71	3718.71	3523.70
RAB24, member RAS oncogene family	Rab24	100765033	44.98	46.08	45.14	44.09	39.41	41.96	1223.62	1252.68	1178.74	1149.65	1068.11	1091.69
RAB25, member RAS oncogene family	Rab25	100757986	0.04	0.05	0.13	0.00	0.05	0.00	0.76	0.92	3.73	1.16	1.03	3.74
RAB26, member RAS oncogene family	Rab26	100769193	0.04	0.07	0.00	0.03	0.00	0.04	16.71	23.79	13.66	10.43	16.56	15.89
RAB27A, member RAS oncogene family	Rab27a	100767414	0.77	0.84	0.27	0.43	0.77	0.72	35.70	33.86	13.66	16.22	34.15	34.58
RAB27B, member RAS oncogene family	Rab27b	100761592	0.21	0.39	0.54	0.63	0.01	0.00	31.90	51.24	77.01	90.40	1.03	0.00
RAB28, member RAS oncogene family	Rab28	100768737	40.40	41.33	53.68	52.06	60.53	58.55	1900.37	1988.37	2506.53	2420.98	2811.02	2708.67
RAB2A, member RAS oncogene family	Rab2a	100757745	43.95	43.19	44.75	45.22	47.57	48.04	2321.15	2367.19	2400.95	2403.60	2535.72	2450.70
RAB2B, member RAS oncogene family	Rab2b	100774897	8.78	8.22	8.12	9.67	11.01	11.20	677.51	678.95	683.15	796.18	864.21	899.15
RAB30, member RAS oncogene family	Rab30	100751870	3.04	2.56	2.70	3.34	3.68	3.42	135.20	107.06	109.30	129.80	146.97	132.72
RAB31, member RAS oncogene family	Rab31	100757810	85.61	82.46	108.55	100.51	107.13	111.11	7980.48	7694.52	10188.84	9359.44	9885.15	10353.34
RAB32, member RAS oncogene family	Rab32	100751302	70.37	69.71	62.25	59.40	54.84	56.08	4276.21	4238.44	3799.54	3594.97	3290.22	3402.20
RAB33A, member RAS oncogene family	Rab33a	100771082	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB33B, member RAS oncogene family	Rab33b	100763953	8.06	7.81	9.22	9.66	9.23	9.30	384.33	378.82	435.97	457.77	445.04	457.05
RAB34, member RAS oncogene family	Rab34	100761520	162.83	162.17	161.35	163.85	156.08	166.54	5631.98	5697.91	5542.19	5463.15	5328.11	5565.96
RAB35, member RAS oncogene family	Rab35	100760151	47.69	46.68	49.05	44.17	43.86	48.40	2792.83	2786.28	2946.23	2685.22	2602.99	2931.12
RAB36, member RAS oncogene family	Rab36	100767674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB37, member RAS oncogene family	Rab37	100774819	0.36	0.41	0.22	0.16	0.21	0.20	38.74	38.43	19.87	17.38	19.66	21.50
RAB38, member RAS oncogene family	Rab38	100768866	0.06	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
RAB39A, member RAS oncogene family	Rab39a	100770178	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.03	0.00
RAB39B, member RAS oncogene family	Rab39b	100758199	0.07	0.04	0.06	0.07	0.17	0.13	8.35	2.75	4.97	6.95	15.52	13.09
RAB3A, member RAS oncogene family	Rab3a	100759024	1.70	1.72	1.99	2.40	1.77	2.24	60.76	64.97	69.56	84.60	64.17	83.19
RAB3B, member RAS oncogene family	Rab3b	100753094	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
RAB3C, member RAS oncogene family	Rab3c	100754070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB3 GTPase activating protein subunit 1 (catalytic)	Rab3gap1	100765029	15.19	15.90	15.61	17.58	17.15	17.32	1869.23	1941.70	1942.62	2075.63	2039.96	2069.36
RAB3 GTPase activating protein subunit 2 (non-catalytic)	Rab3gap2	100757933	11.24	11.34	11.27	12.51	14.01	13.82	2266.47	2296.73	2300.34	2516.02	2813.09	2810.55
RAB3A interacting protein (rabin3)-like 1	Rab3il1	100756879	0.58	0.70	0.57	0.86	0.48	0.64	33.42	32.94	28.57	42.88	18.63	30.84
RAB3A interacting protein	Rab3ip	100759835	15.21	14.92	13.17	14.93	14.99	14.29	1330.71	1303.01	1175.01	1313.06	1296.84	1240.31

RAB40B, member RAS oncogene family	Rab40b	100752351	0.11	0.26	0.03	0.00	0.08	0.06	6.84	14.64	1.24	1.16	4.14	2.80
RAB40C, member RAS oncogene family	Rab40c	100759606	17.21	16.66	18.17	15.95	13.93	15.28	1257.80	1220.65	1341.45	1172.83	1017.39	1129.08
RAB42, member RAS oncogene family	Rab42	100763462	0.29	0.28	0.38	0.32	0.32	0.51	7.60	9.15	12.42	8.11	9.31	14.95
RAB43, member RAS oncogene family	Rab43	100764956	11.21	11.66	13.13	12.48	9.47	11.21	1192.48	1238.96	1412.25	1331.60	1002.90	1205.72
RAB44, member RAS oncogene family	Rab44	100774883	0.05	0.01	0.00	0.00	0.01	0.00	4.56	2.75	0.00	0.00	1.03	0.93
RAB4A, member RAS oncogene family	Rab4a	100769824	14.70	14.22	14.67	15.09	14.84	14.58	574.97	576.47	601.17	600.32	594.08	570.15
RAB4B, member RAS oncogene family	Rab4b	100771205	3.45	3.98	4.42	3.21	2.84	2.43	249.89	286.41	311.76	222.51	208.03	175.72
RAB5A, member RAS oncogene family	Rab5a	100772343	41.78	40.84	38.64	41.56	47.08	44.30	2116.84	2121.05	2037.02	2127.78	2390.82	2204.89
RAB5B, member RAS oncogene family	Rab5b	100768837	36.53	37.95	45.65	46.47	51.16	51.97	3360.20	3501.83	4276.50	4311.18	4712.29	4813.55
RAB5C, member RAS oncogene family	Rab5c	100754413	185.29	186.46	123.24	108.14	95.55	98.80	5929.72	6073.08	4143.60	3670.30	3234.33	3390.05
RAB6A, member RAS oncogene family	Rab6a	100761500	145.49	153.20	168.45	179.69	189.59	182.05	10647.22	11214.65	12407.21	13143.31	13732.20	13282.59
RAB6B, member RAS oncogene family	Rab6b	100766955	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAB7A, member RAS oncogene family	Rab7a	100763105	210.72	219.19	209.43	213.04	250.28	260.78	11590.57	12085.76	11644.56	11760.72	13669.06	14345.31
RAB7B, member RAS oncogene family	Rab7b	100756922	2.53	2.76	0.50	0.41	0.27	0.30	239.25	259.87	47.20	39.40	24.84	27.11
RAB7, member RAS oncogene family-like 1	Rab7l1	100756050	9.57	8.76	8.77	8.48	9.46	9.72	341.03	321.18	317.97	304.80	342.58	345.83
RAB8A, member RAS oncogene family	Rab8a	100760856	46.35	45.72	43.88	39.81	35.11	36.27	2356.85	2330.59	2244.45	2009.57	1784.32	1876.82
RAB8B, member RAS oncogene family	Rab8b	100771866	9.75	9.99	8.91	10.53	10.34	10.49	1324.64	1353.33	1218.49	1415.04	1401.37	1415.09
RAB9A, member RAS oncogene family	Rab9a	100767493	9.14	8.60	10.77	10.68	12.19	12.43	284.07	266.27	342.82	326.82	376.74	379.48
RAB9B, member RAS oncogene family	Rab9b	100766052	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rab acceptor 1 (prenylated)	Rabac1	103160328	22.48	18.98	21.88	13.65	6.88	6.45	381.29	325.75	377.59	248.01	115.92	120.57
rabaptin, RAB GTPase binding effector protein 1	Rabep1	100773382	16.76	15.37	16.65	19.11	17.65	16.47	1713.52	1569.28	1696.69	1928.44	1808.12	1667.45
rabaptin, RAB GTPase binding effector protein 2	Rabep2	100765663	4.78	4.27	3.90	3.25	2.23	2.30	335.72	310.20	293.13	242.21	165.60	171.04
Rab9 effector protein with kelch motifs	Rabepk	100755498	29.21	26.96	34.58	34.05	39.67	38.37	1055.76	1010.20	1232.15	1214.55	1367.22	1377.70
RAB GTPase activating protein 1	Rabgap 1	100769979	21.55	22.77	22.16	23.09	24.95	25.28	3104.24	3249.28	3171.05	3251.93	3505.50	3549.88
RAB GTPase activating protein 1-like	Rabgap 1l	100751339	4.33	4.42	4.75	5.66	5.47	5.56	387.37	396.21	424.79	472.84	489.55	497.24
Rab geranylgeranyltransferase, alpha subunit	Rabggta	100757505	28.78	26.50	22.81	20.24	17.44	19.02	2408.50	2225.36	1960.01	1686.23	1469.68	1571.18
Rab geranylgeranyltransferase, beta subunit	Rabggtb	100762868	99.59	94.49	100.39	108.17	110.49	111.59	3840.99	3772.68	4175.90	4581.21	4658.47	4511.65
RAB interacting factor	Rabif	100753301	11.61	11.65	14.58	14.87	16.15	15.01	964.61	969.94	1228.42	1263.22	1351.69	1283.30

RAB, member of RAS oncogene family-like 2B	Rabl2b	100755429	15.08	13.56	11.77	13.56	14.37	13.67	438.25	441.96	391.26	425.32	447.11	458.92
RAB, member of RAS oncogene family-like 3	Rabl3	100762718	10.59	10.88	11.35	11.56	12.28	11.56	770.17	783.27	823.50	837.90	879.74	823.44
RAB, member RAS oncogene family-like 6	Rabl6	100762690	33.02	33.01	35.76	33.11	27.59	30.49	2894.60	2897.00	3102.73	2882.23	2424.97	2689.04
ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	Rac1	100756792	99.99	105.73	102.29	102.01	125.44	124.15	4627.87	4798.44	4646.65	4707.53	5589.96	5635.12
ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	Rac2	100767225	0.13	0.00	0.00	0.00	0.00	0.08	1.52	0.00	0.00	0.00	0.00	0.93
ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)	Rac3	100757479	0.41	0.29	0.35	0.22	0.23	0.27	22.79	25.62	14.91	13.91	10.35	11.22
Rac GTPase activating protein 1	Racgap 1	100751180	60.50	62.03	60.53	65.93	73.79	74.55	3882.00	4090.20	3990.83	4301.91	4848.91	4772.42
RAD1 homolog (S. pombe)	Rad1	100756835	17.70	17.49	14.21	14.93	19.05	19.19	626.62	645.10	526.64	535.42	672.74	673.90
RAD17 homolog (S. pombe)	Rad17	100773436	16.28	16.96	15.09	16.12	19.61	16.63	1304.13	1382.62	1247.06	1301.47	1559.72	1337.51
RAD18 homolog (S. cerevisiae)	Rad18	100758311	21.09	21.39	21.97	26.18	28.68	27.10	1381.60	1411.90	1460.69	1726.79	1880.57	1747.83
RAD21 homolog (S. pombe)	Rad21	100750544	48.42	51.01	54.31	56.78	48.89	48.00	2845.99	3025.10	3208.31	3293.65	2834.83	2789.05
RAD21-like 1 (S. pombe)	Rad21l1	100762123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAD23 homolog A (S. cerevisiae)	Rad23a	100757595	30.24	29.74	34.35	31.24	25.98	29.09	3057.90	3008.63	3434.37	3107.06	2508.81	2828.31
RAD23 homolog B (S. cerevisiae)	Rad23b	100763817	445.45	450.19	425.03	443.20	432.64	450.68	15989.82	16196.09	15447.83	15688.30	15373.69	15997.81
RAD50 homolog (S. cerevisiae)	Rad50	100755349	10.93	11.01	10.14	12.60	13.41	12.60	1402.87	1408.24	1294.25	1584.24	1666.33	1582.40
RAD51 recombinase	Rad51	100689324	32.33	31.75	33.98	35.26	40.19	41.80	1257.80	1313.99	1386.17	1357.10	1627.00	1625.39
RAD51 associated protein 1	Rad51a p1	100772698	14.44	14.41	15.49	16.07	17.75	17.92	850.68	852.81	924.11	957.27	1039.13	1042.16
RAD51 associated protein 2	Rad51a p2	100757413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAD51 paralog B	Rad51b	100756125	13.28	12.52	13.84	15.69	18.55	17.83	672.19	658.82	717.93	764.89	928.38	872.05
RAD51 paralog C	Rad51c	100689078	3.63	3.91	4.40	4.44	6.01	4.94	217.23	244.31	272.02	287.41	389.15	323.40
RAD51 paralog D	Rad51d	100766176	46.74	43.01	37.96	38.97	36.18	39.43	2915.87	2741.44	2395.99	2397.81	2220.05	2389.95
RAD52 homolog (S. cerevisiae)	Rad52	100689331	20.23	21.57	22.24	20.68	19.04	20.37	1127.92	1191.37	1209.79	1122.99	1040.16	1083.28
RAD54 homolog B (S. cerevisiae)	Rad54b	100758942	3.72	3.75	3.83	3.96	3.93	3.71	333.44	345.88	337.85	341.88	351.90	323.40
RAD54-like (S. cerevisiae)	Rad54l	100771751	11.95	11.71	16.76	17.33	19.09	18.94	1036.77	1044.05	1520.31	1525.14	1710.83	1641.28
RAD54-like 2 (S. cerevisiae)	Rad54l2	100773503	9.22	9.10	9.84	9.17	9.14	9.85	1358.82	1367.06	1468.15	1371.00	1350.66	1457.15
RAD9 homolog A (S. pombe)	Rad9a	100761098	57.40	54.47	70.43	66.11	52.23	56.74	2972.08	2836.60	3768.49	3484.87	2792.39	2915.23
RAD9 homolog B (S. pombe)	Rad9b	100764146	0.07	0.09	0.08	0.00	0.03	0.09	4.56	5.49	4.97	1.16	3.10	3.74
Ras association and DIL domains	Radil	100759861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonucleic acid export 1	Rae1	100759605	146.25	137.60	125.25	125.92	126.17	138.60	6393.04	6190.20	5626.65	5515.30	5580.65	6056.66
v-raf-1 murine leukemia viral oncogene homolog 1	Raf1	100769018	38.80	36.75	40.85	43.25	39.56	43.46	3173.35	3063.53	3377.23	3566.00	3302.64	3549.88
recombination activating gene 1	Rag1	100754292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

recombination activating gene 2	Rag2	100754577	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
retinoic acid induced 1	Rai1	100768243	3.13	2.81	2.56	2.06	1.16	1.18	513.45	459.35	428.52	339.56	195.61	199.08
retinoic acid induced 14	Rai14	100760490	34.65	33.59	35.67	40.10	43.51	41.36	4689.40	4536.74	4896.31	5390.14	5836.29	5600.54
retinoic acid induced 2	Rai2	100751572	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
v-ral simian leukemia viral oncogene homolog A (ras related)	Rala	100769632	45.55	45.48	38.92	41.99	47.51	43.91	2211.78	2227.19	1900.39	2020.00	2242.82	2114.22
v-ral simian leukemia viral oncogene homolog B	Ralb	100757867	42.67	43.87	45.38	42.43	38.66	41.58	3617.69	3723.27	3886.49	3581.06	3244.68	3519.03
ralA binding protein 1	Ralbp1	100756078	44.00	45.50	50.82	49.88	51.53	52.98	4155.44	4313.47	4836.69	4734.19	4885.14	5064.98
Ral GTPase activating protein, alpha subunit 1 (catalytic)	Ralgapa 1	100753551	8.68	8.14	7.61	9.41	9.43	8.88	1948.98	1819.09	1728.98	2082.58	2080.32	1997.39
Ral GTPase activating protein, alpha subunit 2 (catalytic)	Ralgapa 2	100770884	6.86	6.52	8.25	9.21	8.62	8.59	1917.08	1824.58	2315.25	2553.10	2394.96	2392.75
Ral GTPase activating protein, beta subunit (non-catalytic)	Ralgapb	100760158	18.70	19.06	18.38	21.68	26.16	24.88	4530.65	4641.97	4487.66	5234.84	6310.31	6053.86
ral guanine nucleotide dissociation stimulator	Ralgds	100771841	4.85	4.85	5.06	3.99	3.21	3.51	625.10	642.35	660.79	557.44	438.83	486.03
Ral GEF with PH domain and SH3 binding motif 1	Ralgps1	100762540	0.30	0.40	0.24	0.37	0.28	0.39	26.58	29.28	18.63	23.18	24.84	26.17
Ral GEF with PH domain and SH3 binding motif 2	Ralgps2	100773243	0.01	0.00	0.00	0.02	0.00	0.02	1.52	0.92	0.00	1.16	0.00	0.93
RALY heterogeneous nuclear ribonucleoprotein	Raly	100774868	171.49	173.59	172.86	173.43	154.76	161.04	6045.17	5981.57	5872.59	5907.01	5230.82	5600.54
RALY RNA binding protein-like	Ralyl	100771364	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor (G protein-coupled) activity modifying protein 1	Ramp1	100774505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor (G protein-coupled) activity modifying protein 2	Ramp2	100752026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor (G protein-coupled) activity modifying protein 3	Ramp3	100770633	0.12	0.00	0.20	0.38	0.16	0.00	1.52	0.00	2.48	2.32	2.07	0.00
RAN, member RAS oncogene family	Ran	100769066	880.98	869.10	914.19	922.71	895.26	913.04	15095.08	15054.13	15897.47	15734.66	15359.20	15955.75
RAN binding protein 1	Ranbp1	100770912	303.54	312.36	298.13	292.97	294.59	280.26	7220.18	7500.53	7047.60	6778.52	6907.50	6542.69
RAN binding protein 10	Ranbp1 0	100756743	8.37	8.35	9.13	8.52	8.58	8.75	1278.30	1282.88	1427.16	1301.47	1323.75	1340.32
RAN binding protein 2	Ranbp2	100762334	20.36	19.96	18.82	23.99	24.88	21.72	6176.57	6101.44	5760.80	7295.40	7522.28	6618.40
RAN binding protein 3	Ranbp3	100771967	32.37	31.30	32.24	23.76	16.54	16.59	2266.47	2181.44	2277.99	1724.47	1295.80	1278.63
RAN binding protein 3-like	Ranbp3l	100773895	0.05	0.06	0.10	0.02	0.02	0.08	5.32	3.66	2.48	2.32	9.31	12.15
RAN binding protein 6	Ranbp6	100763135	7.24	7.22	7.21	8.19	9.39	8.36	938.79	930.59	936.53	1055.78	1194.37	1080.48
RAN binding protein 9	Ranbp9	100769939	19.14	20.20	22.30	25.05	27.62	26.83	1430.97	1509.81	1663.15	1847.32	2024.43	1947.85
Ran GTPase activating protein 1	Rangap 1	100761972	121.99	117.38	130.88	121.00	93.78	104.66	9987.18	9657.26	10766.41	9860.09	7641.30	8526.99
RAN guanine nucleotide release factor	Rangrf	100760667	88.02	83.94	90.59	76.17	63.06	65.70	2640.92	2591.37	2715.20	2186.88	1736.71	1828.21
RAP1A, member of RAS oncogene family	Rap1a	100751497	102.48	101.07	84.21	97.24	107.95	102.38	3699.72	3665.62	3026.97	3459.38	3840.83	3601.28
RAP1B, member of RAS oncogene family	Rap1b	100769542	131.17	137.19	115.06	123.91	152.59	149.01	7302.97	7717.39	6470.03	6872.39	8405.12	8220.42

RAP1 GTPase activating protein	Rap1gap	100764361	0.07	0.07	0.00	0.02	0.00	0.00	4.56	4.58	0.00	1.16	0.00	0.00
RAP1 GTPase activating protein 2	Rap1gap2	100765938	4.34	4.65	4.75	4.90	4.98	5.26	228.62	241.57	234.75	264.23	257.71	261.71
RAP1, GTP-GDP dissociation stimulator 1	Rap1gds1	100756003	71.62	72.49	80.48	88.50	92.06	85.44	4990.17	4994.25	5677.58	6041.45	6340.33	6066.94
RAP2B, member of RAS oncogene family	Rap2b	100772266	17.99	19.45	20.53	17.57	19.44	18.18	1266.91	1374.38	1459.45	1256.27	1373.43	1295.45
RAP2C, member of RAS oncogene family	Rap2c	100761576	16.42	17.81	14.92	16.45	17.25	16.33	1424.90	1552.81	1311.64	1425.47	1496.59	1420.70
Rap guanine nucleotide exchange factor (GEF) 1	Rapgef1	100764804	31.72	30.85	32.69	29.21	22.93	24.57	4384.06	4329.02	4675.21	4197.61	3273.66	3556.42
Rap guanine nucleotide exchange factor (GEF) 2	Rapgef2	100754995	22.05	23.89	21.23	26.04	25.86	28.55	1800.11	1849.28	1760.04	1893.68	1986.14	1959.07
Rap guanine nucleotide exchange factor (GEF) 3	Rapgef3	100767619	1.36	1.55	1.31	1.49	1.30	1.55	230.90	272.68	237.24	276.98	249.43	287.88
Rap guanine nucleotide exchange factor (GEF) 4	Rapgef4	100774346	1.03	1.06	1.01	0.80	1.21	1.25	116.97	122.61	114.27	93.87	129.37	151.42
Rap guanine nucleotide exchange factor (GEF) 5	Rapgef5	100769866	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rap guanine nucleotide exchange factor (GEF) 6	Rapgef6	100763755	4.64	4.55	5.11	6.07	5.95	5.67	1099.81	1075.16	1225.94	1420.84	1393.09	1331.90
Rap guanine nucleotide exchange factor (GEF)-like 1	Rapgefl1	100774035	0.75	0.90	0.56	0.49	0.37	0.44	65.32	70.46	49.68	33.61	32.08	39.26
Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	Raph1	100769256	8.19	7.63	7.09	8.18	10.08	9.05	1293.50	1209.67	1171.29	1300.31	1612.51	1460.89
receptor-associated protein of the synapse	Rapsn	100760255	0.18	0.04	0.00	0.00	0.05	0.00	8.35	3.66	1.24	0.00	3.10	0.93
retinoic acid receptor, alpha	Rara	100771910	11.76	10.74	6.08	4.38	2.85	3.08	1091.46	1009.28	568.88	403.30	258.75	291.62
retinoic acid receptor, beta	Rarb	100768698	0.20	0.03	0.00	0.19	0.03	0.00	6.84	2.75	0.00	4.64	2.07	0.93
retinoic acid receptor, gamma	Rarg	100769591	12.65	12.29	14.12	13.04	10.19	12.57	879.55	883.01	980.01	891.21	726.56	866.44
retinoic acid receptor responder (tazarotene induced) 1	Rarres1	100759080	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	2.32	1.03	0.93
retinoic acid receptor responder (tazarotene induced) 2	Rarres2	100689253	100.40	91.52	11.05	10.80	0.34	0.37	2053.03	1906.01	273.26	265.39	48.64	44.86
arginyl-tRNA synthetase	Rars	100767723	60.73	61.79	61.89	68.12	73.66	73.90	3804.53	3930.98	3951.08	4239.33	4546.69	4546.23
arginyl-tRNA synthetase 2, mitochondrial	Rars2	100768428	6.86	7.56	7.84	9.31	9.32	8.85	424.58	473.99	462.06	548.17	592.01	511.26
RAS p21 protein activator (GTPase activating protein) 1	Rasa1	100762440	32.18	30.81	33.27	39.69	39.85	38.96	3338.93	3284.97	3635.59	4248.60	4187.55	4040.58
RAS p21 protein activator 2	Rasa2	100765379	6.18	6.64	3.08	3.41	4.22	3.37	1127.92	1216.99	562.67	621.18	764.85	609.40
RAS p21 protein activator 3	Rasa3	100752063	7.35	7.48	6.61	6.72	7.15	7.44	906.89	935.16	840.89	826.31	877.67	909.43
RAS p21 protein activator 4B	Rasa4b	100765808	2.18	2.08	2.13	1.65	1.45	1.28	181.53	165.62	166.44	137.91	111.78	104.68
RAS protein activator like 1 (GAP1 like)	Rasal1	100772012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAS protein activator like 2	Rasal2	100754098	15.29	14.07	9.42	12.41	12.86	11.95	2261.91	2246.41	1957.53	2376.94	2220.05	2233.86
RAS protein activator like 3	Rasal3	100772454	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
RAS, dexamethasone-induced 1	Rasd1	100767666	0.15	0.09	0.00	0.47	0.17	0.13	4.56	2.75	0.00	16.22	9.31	4.67
RASD family, member 2	Rasd2	100766916	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
RAS and EF-hand domain containing	Rasef	100771376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RasGEF domain family, member 1A	Rasgef1a	100771113	0.02	0.00	0.03	0.00	0.00	0.03	0.76	0.00	1.24	0.00	0.00	0.93

RasGEF domain family, member 1B	Rasgef1b	100751984	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RasGEF domain family, member 1C	Rasgef1c	100765443	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.87
Ras protein-specific guanine nucleotide-releasing factor 1	Rasgrf1	100756976	0.01	0.01	0.00	0.00	0.00	0.01	1.52	0.92	0.00	0.00	0.00	0.93
RAS guanyl releasing protein 1 (calcium and DAG-regulated)	Rasgrp1	100762037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAS guanyl releasing protein 2 (calcium and DAG-regulated)	Rasgrp2	100757059	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.92	1.24	0.00	1.03	0.00
RAS guanyl releasing protein 3 (calcium and DAG-regulated)	Rasgrp3	100764463	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
RAS guanyl releasing protein 4	Rasgrp4	100765723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ras interacting protein 1	Rasip1	100751764	0.56	0.42	0.19	0.20	0.05	0.08	30.38	21.96	8.69	12.75	2.07	5.61
RAS-like, family 10, member A	Rasl10a	100752523	0.87	1.05	1.43	0.94	0.89	1.56	207.35	206.80	252.14	236.42	293.94	298.16
RAS-like, family 10, member B	Rasl10b	100775094	0.18	0.15	0.15	0.10	0.18	0.07	12.91	10.07	9.94	8.11	12.42	4.67
RAS-like, family 11, member A	Rasl11a	100758419	5.84	6.55	5.60	5.34	6.66	6.90	162.54	182.09	161.47	143.71	182.16	189.74
RAS-like, family 11, member B	Rasl11b	100764616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAS-like, family 12	Rasl12	100750791	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.93
Ras association (RalGDS/AF-6) domain family (N-terminal) member 10	Rassf10	100763598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ras association (RalGDS/AF-6) domain family member 2	Rassf2	100762209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ras association (RalGDS/AF-6) domain family member 3	Rassf3	100770379	23.46	23.27	26.99	24.19	24.36	23.96	1132.47	1120.00	1288.04	1158.92	1179.88	1157.12
Ras association (RalGDS/AF-6) domain family member 4	Rassf4	100758323	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Ras association (RalGDS/AF-6) domain family member 5	Rassf5	100758747	3.27	3.63	3.23	3.30	3.33	3.61	223.30	236.99	216.12	225.99	225.63	230.86
Ras association (RalGDS/AF-6) domain family member 6	Rassf6	100759358	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
Ras association (RalGDS/AF-6) domain family (N-terminal) member 7	Rassf7	100774797	0.02	0.00	0.00	0.03	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
Ras association (RalGDS/AF-6) domain family (N-terminal) member 8	Rassf8	100758676	14.60	14.71	16.23	16.59	15.57	15.57	1456.04	1479.61	1666.88	1675.80	1535.92	1570.25
Ras association (RalGDS/AF-6) domain family (N-terminal) member 9	Rassf9	100760002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonucleoprotein, PTB-binding 1	Raver1	100760971	25.71	24.56	24.54	17.55	13.01	13.65	2974.36	2866.80	2880.40	2048.97	1511.08	1587.07
ribonucleoprotein, PTB-binding 2	Raver2	100765895	0.52	0.39	0.28	0.25	0.41	0.51	28.86	27.45	22.36	12.75	28.98	34.58
retina and anterior neural fold homeobox	Rax	100754242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinoblastoma 1	Rb1	100752928	4.34	4.90	5.55	6.16	7.94	7.22	601.56	687.19	767.61	849.49	1086.74	995.42
RB1-inducible coiled-coil 1	Rb1cc1	100763340	7.13	6.72	6.72	8.25	9.05	8.07	1318.56	1253.60	1254.51	1532.09	1652.87	1507.62
RB-associated KRAB zinc finger	Rbak	100758131	2.73	2.74	2.74	3.29	3.96	3.16	271.16	260.78	263.32	317.54	388.12	310.31
retinoblastoma binding protein 4	Rbbp4	100757871	79.22	79.97	76.67	79.81	85.56	100.79	2748.01	2867.72	2759.92	2816.18	3064.59	3451.74
retinoblastoma binding protein 5	Rbbp5	100754011	19.41	20.56	18.45	20.08	21.96	22.56	2175.32	2308.63	2127.69	2258.73	2488.11	2522.67

retinoblastoma binding protein 6	Rbbp6	100773570	14.17	14.14	15.56	17.94	15.94	16.00	2706.24	2721.31	3020.76	3494.14	3101.85	3094.69
retinoblastoma binding protein 7	Rbbp7	100752761	175.32	184.48	173.55	186.61	200.30	187.90	6269.24	6504.97	6288.69	6494.59	7105.18	6559.51
retinoblastoma binding protein 8	Rbbp8	100765239	19.53	20.17	17.59	19.09	19.44	17.19	1667.95	1719.35	1504.17	1601.63	1646.66	1459.95
RBBP8 N-terminal like	Rbbp8nl	100765430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinoblastoma binding protein 9	Rbbp9	100766553	32.17	32.35	34.07	36.75	42.72	44.32	1592.75	1606.80	1751.34	1851.95	2202.45	2241.34
RanBP-type and C3HC4-type zinc finger containing 1	Rbck1	100761016	51.56	48.51	52.83	36.24	23.46	26.31	2892.33	2779.87	2958.65	2079.10	1376.53	1547.81
ribosome binding factor A (putative)	Rbfa	100763391	18.49	18.76	19.62	19.64	18.42	19.67	728.40	733.86	775.06	778.79	729.67	763.63
RNA binding protein, fox-1 homolog (C. elegans) 1	Rbfox1	100766551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA binding protein, fox-1 homolog (C. elegans) 2	Rbfox2	100757818	21.01	21.04	22.13	21.19	22.35	24.80	3648.83	3685.76	3857.92	3649.44	3818.06	4298.55
RNA binding protein, fox-1 homolog (C. elegans) 3	Rbfox3	100754322	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.93
ribokinase	Rbks	100762399	7.93	7.60	11.81	13.37	13.20	15.90	207.35	213.20	304.31	349.99	342.58	419.67
retinoblastoma-like 1	Rbl1	100755818	9.35	9.47	10.27	11.44	14.42	13.95	1361.85	1405.49	1499.20	1674.64	2098.95	2016.08
retinoblastoma-like 2	Rbl2	100770221	18.43	19.60	18.48	20.27	27.76	25.84	2542.94	2723.14	2559.94	2775.61	3800.47	3544.27
RNA binding motif protein 10	Rbm10	100752703	39.79	38.66	45.00	40.34	31.86	33.13	3981.50	3890.72	4553.49	3993.64	3199.14	3315.27
RNA binding motif protein 11	Rbm11	100766870	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.00
RNA binding motif protein 12B	Rbm12b	100762542	1.79	1.76	2.14	2.65	2.51	2.85	331.92	330.33	392.50	494.86	465.74	541.17
RNA binding motif protein 15	Rbm15	100764622	4.06	3.93	4.14	4.21	3.84	4.03	658.52	629.54	700.54	716.21	660.32	673.90
RNA binding motif protein 15B	Rbm15b	100773793	25.46	25.48	29.88	24.19	17.85	19.66	1492.49	1501.57	1803.51	1446.33	1115.72	1242.18
RNA binding motif protein 17	Rbm17	100764203	106.21	105.51	107.34	113.86	111.02	115.27	5184.61	5309.02	5359.60	5572.09	5402.63	5586.52
RNA binding motif protein 18	Rbm18	100769621	14.79	15.29	13.39	14.21	15.86	15.42	963.10	1001.05	878.16	924.82	1023.60	1015.99
RNA binding motif protein 19	Rbm19	100750733	22.35	22.77	22.59	22.59	16.70	18.24	2786.75	2909.81	2904.00	2831.24	2132.07	2309.57
RNA binding motif protein 20	Rbm20	100768081	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
RNA binding motif protein 22	Rbm22	100767581	31.73	30.27	35.22	34.73	34.86	33.52	1530.47	1505.23	1753.83	1696.66	1706.69	1670.25
RNA binding motif protein 24	Rbm24	100766181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA binding motif protein 25	Rbm25	100770267	34.70	35.08	30.98	34.90	33.45	31.65	4389.38	4455.30	3922.51	4358.70	4160.64	3981.69
RNA binding motif protein 26	Rbm26	100759429	21.27	19.75	18.68	20.41	20.34	18.12	3483.25	3250.20	3115.15	3348.12	3279.87	2979.73
RNA binding motif protein 27	Rbm27	100764061	10.60	10.39	10.01	11.24	11.26	10.41	2080.38	2099.09	1992.31	2256.42	2251.10	2034.78
RNA binding motif protein 28	Rbm28	100774448	54.28	55.65	55.91	58.40	50.56	52.49	4567.87	4731.64	4780.79	4924.25	4252.76	4351.82
RNA binding motif (RNP1, RRM) protein 3	Rbm3	100689372	151.62	167.08	140.58	146.73	117.74	125.34	5154.23	5668.63	5511.14	5754.04	4678.14	4921.04
RNA binding motif protein 33	Rbm33	100773692	13.55	12.77	10.93	10.80	9.14	9.95	2632.56	2494.38	2119.00	2105.76	1792.60	1938.50
RNA binding motif protein 34	Rbm34	100761330	16.30	18.24	15.94	17.49	18.23	17.58	1295.01	1403.66	1247.06	1399.98	1479.00	1398.27
RNA binding motif protein 38	Rbm38	100759322	0.02	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
RNA binding motif protein 39	Rbm39	100757502	116.05	109.77	97.82	106.91	124.42	115.26	8936.74	8759.62	7805.27	8355.81	9689.54	8900.86
RNA binding motif protein 41	Rbm41	100759826	4.90	5.82	5.03	6.25	8.08	6.44	214.19	235.16	201.22	242.21	326.02	268.25
RNA binding motif protein 42	Rbm42	100751164	35.57	36.38	36.03	33.26	24.53	27.76	957.02	986.41	992.43	836.74	612.71	677.64
RNA binding motif protein 43	Rbm43	100771753	5.08	5.16	5.05	5.71	6.96	6.18	309.89	316.60	306.80	345.36	424.34	377.61
RNA binding motif protein 44	Rbm44	100760953	0.04	0.02	0.01	0.04	0.03	0.05	3.80	2.75	1.24	4.64	3.10	5.61
RNA binding motif protein 45	Rbm45	100764756	21.89	21.54	17.62	18.12	23.22	21.26	1104.37	1105.36	886.85	907.43	1176.78	1060.85
RNA binding motif protein 46	Rbm46	100769270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RNA binding motif protein 47	Rbm47	100755493	0.06	0.03	0.06	0.04	0.01	0.03	0.76	0.92	1.24	1.16	1.03	0.00

RNA binding motif protein 48	Rbm48	100763637	14.84	14.56	13.65	15.60	14.92	14.69	449.65	451.11	414.86	469.36	472.99	469.20
RNA binding motif protein 5	Rbm5	100755547	30.56	28.00	30.45	32.23	34.56	33.77	2984.99	2786.28	3056.78	3156.90	3410.28	3323.69
RNA binding motif protein 6	Rbm6	100755843	21.12	20.93	25.11	25.76	26.50	24.82	2094.81	2127.45	2435.73	2556.58	2661.98	2521.74
RNA binding motif protein 7	Rbm7	100768276	78.51	74.99	62.76	68.31	73.33	66.86	3947.33	3774.51	3185.95	3423.45	3659.71	3349.86
RNA binding motif protein 8A	Rbm8a	100754959	129.46	137.75	126.48	122.65	116.35	115.94	4606.61	4927.46	4531.13	4345.95	4168.92	4098.53
RNA binding motif, single stranded interacting protein 1	Rbms1	100767838	46.93	46.32	35.88	43.40	47.33	46.52	3010.05	3058.04	2359.96	2768.66	3092.54	3009.64
RNA binding motif, single stranded interacting protein 2	Rbms2	100763596	11.94	11.88	12.99	14.11	15.39	15.85	1729.47	1737.65	1870.58	2008.41	2181.75	2288.07
RNA binding motif, single stranded interacting protein 3	Rbms3	100774438	3.29	2.84	3.61	3.52	4.04	3.91	296.22	245.23	347.78	331.45	380.87	370.13
RNA binding motif protein, X-linked	Rbmx	100762511	20.56	21.36	12.06	14.67	13.89	12.96	2210.26	2302.22	1300.46	1558.75	1435.53	1370.23
RNA binding motif protein, X-linked 2	Rbmx2	100773395	18.37	16.71	15.33	17.20	15.70	17.44	816.50	732.03	662.03	718.53	712.07	710.35
retinol binding protein 1, cellular	Rbp1	100762475	0.00	0.00	0.00	0.00	0.00	0.08	0.76	0.92	0.00	0.00	0.00	0.93
retinol binding protein 2, cellular	Rbp2	100758803	0.29	0.17	0.12	0.00	0.10	0.00	3.04	2.75	2.48	1.16	1.03	0.00
retinol binding protein 3, interstitial	Rbp3	100772493	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinol binding protein 4, plasma	Rbp4	100755845	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
retinol binding protein 7, cellular	Rbp7	103158563	0.07	0.08	0.00	0.00	0.10	0.00	0.76	0.92	0.00	0.00	1.03	0.00
recombination signal binding protein for immunoglobulin kappa J region	Rbpj	100774626	49.19	47.05	51.91	59.38	53.33	52.14	3957.20	3806.54	4200.74	4748.09	4240.34	4173.30
recombination signal binding protein for immunoglobulin kappa J region-like	Rbpjl	100759718	0.00	0.00	0.00	0.00	0.03	0.00	3.80	1.83	3.73	0.00	4.14	0.93
RNA binding protein with multiple splicing	Rbpms	100758259	39.24	38.84	44.78	36.65	36.14	40.95	843.85	878.43	943.99	861.08	830.06	852.42
RNA binding protein with multiple splicing 2	Rbpms2	100752492	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring-box 1, E3 ubiquitin protein ligase	Rbx1	100762556	133.23	136.78	101.46	105.04	113.88	118.18	1866.95	2018.56	1479.33	1540.20	1630.10	1625.39
ring finger and CCCH-type domains 1	Rc3h1	100750750	10.40	9.84	10.00	11.60	11.95	11.92	1200.07	1171.24	1160.11	1347.82	1408.62	1375.83
ring finger and CCCH-type domains 2	Rc3h2	100773428	8.10	7.54	7.89	9.47	10.41	9.62	2224.69	2077.13	2212.16	2624.95	2856.56	2650.72
regulator of calcineurin 1	Rcan1	100689474	66.25	65.09	51.23	51.04	48.69	48.82	4160.00	4096.61	3217.00	3217.16	2983.87	3053.57
regulator of calcineurin 2	Rcan2	100758104	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1.03	0.00
RCAN family member 3	Rcan3	100753641	5.85	5.92	7.48	8.23	8.79	8.63	301.54	319.35	406.16	447.34	470.92	487.90
regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 1	Rcbtb1	100765290	41.82	43.49	40.03	42.25	46.10	47.38	2564.96	2713.99	2538.83	2622.64	2796.53	2875.04
regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2	Rcbtb2	100750578	30.28	30.37	30.97	30.24	32.76	32.20	1839.60	1884.05	1871.82	1829.93	2039.96	1971.22
regulator of chromosome condensation 1	Rcc1	100769945	53.09	51.50	59.72	53.24	42.90	45.06	3996.70	3947.45	4654.10	4137.34	3400.97	3563.90
regulator of chromosome condensation 2	Rcc2	100771065	112.45	102.29	118.55	112.78	76.13	88.44	5438.30	5173.60	5990.58	5631.19	4029.20	4506.98
RCC1 domain containing 1	Rccd1	100758931	16.88	18.14	11.65	10.02	6.71	10.26	319.77	329.41	253.39	223.67	171.81	221.52
Ras converting CAAX endopeptidase 1	Rce1	100758680	11.35	11.49	11.21	9.96	8.35	10.12	441.29	424.58	404.92	372.01	304.29	346.76
ring finger and CHY zinc finger domain containing 1, E3 ubiquitin protein ligase	Rchy1	100754452	23.57	22.80	26.02	25.88	27.12	27.00	883.34	867.45	961.38	942.20	1000.83	979.53
RNA terminal phosphate cyclase-like 1	Rcl1	100761761	74.31	74.62	74.52	81.65	80.49	77.00	2893.08	2889.68	2905.24	3134.88	3037.68	2937.67

reticulocalbin 1, EF-hand calcium binding domain	Rcn1	100769935	130.84	131.03	133.88	138.97	144.24	133.54	6729.52	6750.20	7077.41	7298.88	7321.49	6880.10
reticulocalbin 2, EF-hand calcium binding domain	Rcn2	100758430	43.46	48.61	0.47	0.78	0.00	0.00	2057.59	2278.43	22.36	34.77	0.00	0.00
reticulocalbin 3, EF-hand calcium binding domain	Rcn3	100755345	218.76	209.40	148.66	97.72	55.76	64.40	8126.31	7732.03	5809.24	4227.74	2449.81	2832.05
REST corepressor 1	Rcor1	100773394	27.48	26.86	28.57	31.78	31.58	31.76	3688.32	3586.93	3852.95	4253.24	4147.19	4205.08
REST corepressor 2	Rcor2	100758685	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
REST corepressor 3	Rcor3	100764531	6.28	5.83	7.27	7.41	7.41	7.35	722.32	669.80	807.36	819.36	833.16	827.18
RCSD domain containing 1	Rcsd1	100771004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
recoverin	Rcvrn	100766076	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinal degeneration 3	Rd3	100764235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinal degeneration 3-like	Rd3l	103161148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinol dehydrogenase 10 (all-trans)	Rdh10	100765162	1.95	1.80	1.33	1.34	1.72	1.88	67.60	62.22	50.93	41.72	68.31	60.75
retinol dehydrogenase 11 (all-trans/9-cis/11-cis)	Rdh11	100759877	12.87	12.36	14.53	15.41	16.10	16.59	683.59	672.55	791.21	864.55	904.58	915.04
retinol dehydrogenase 12 (all-trans/9-cis/11-cis)	Rdh12	100759583	0.03	0.00	0.00	0.00	0.00	0.02	1.52	0.00	0.00	0.00	0.00	0.93
retinol dehydrogenase 13 (all-trans/9-cis)	Rdh13	100759393	8.89	9.44	10.44	9.14	7.79	9.41	525.60	540.78	604.90	531.94	451.25	532.76
retinol dehydrogenase 14 (all-trans/9-cis/11-cis)	Rdh14	100757118	11.08	10.42	12.41	13.71	19.01	16.46	499.78	467.58	576.33	601.48	791.76	744.00
retinol dehydrogenase 16 (all-trans)	Rdh16	100751871	0.03	0.03	0.00	0.00	0.04	0.04	0.76	0.92	0.00	2.32	4.14	1.87
retinol dehydrogenase 5 (11-cis/9-cis)	Rdh5	100772460	0.15	0.09	0.15	0.12	0.08	0.11	12.91	10.07	8.69	12.75	8.28	10.28
retinol dehydrogenase 8 (all-trans)	Rdh8	100773401	0.27	0.21	0.00	0.05	0.05	0.00	13.67	10.98	2.48	2.32	1.03	0.93
radixin	Rdx	100752135	157.51	163.96	147.94	165.11	174.44	162.16	16811.64	17545.77	15954.61	17715.25	18616.30	17623.20
REC8 meiotic recombination protein	Rec8	100770434	0.09	0.10	0.09	0.04	0.04	0.07	224.82	234.25	181.34	221.35	170.77	182.26
reversion-inducing-cysteine-rich protein with kazal motifs	Reck	100759086	2.95	2.53	3.03	3.36	4.05	3.99	300.78	285.49	322.94	341.88	419.17	410.32
RecQ helicase-like	Recql	100770914	22.19	24.03	24.29	28.17	32.48	31.08	1736.31	1876.73	1895.42	2204.27	2522.26	2489.96
RecQ protein-like 4	Recql4	100754533	9.88	10.45	13.35	12.06	9.60	11.21	1157.54	1233.47	1562.55	1387.23	1118.82	1312.28
receptor accessory protein 1	Reep1	100767668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
receptor accessory protein 2	Reep2	100751729	0.03	0.04	0.02	0.00	0.00	0.06	3.04	2.75	1.24	2.32	1.03	5.61
receptor accessory protein 3	Reep3	100775039	17.67	17.77	14.65	15.31	19.50	19.18	2495.09	2516.34	2078.01	2168.34	2748.92	2710.54
receptor accessory protein 4	Reep4	100766183	14.54	14.48	13.50	12.49	11.64	11.90	695.74	736.60	673.21	625.82	593.05	588.84
receptor accessory protein 5	Reep5	100753505	40.14	39.47	39.46	42.52	47.41	48.60	1985.44	1966.41	1966.22	2091.85	2332.86	2410.51
receptor accessory protein 6	Reep6	100756830	0.00	0.11	0.07	0.00	0.12	0.11	0.00	2.75	1.24	0.00	3.10	1.87
regenerating islet-derived family, member 4	Reg4	100774973	0.08	0.05	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
v-rel avian reticuloendotheliosis viral oncogene homolog	Rel	100756087	1.80	1.81	2.16	2.77	2.93	3.27	117.73	116.21	150.29	184.27	191.47	210.30
v-rel avian reticuloendotheliosis viral oncogene homolog A	Rela	100763542	118.17	112.73	121.03	111.41	96.57	102.35	7963.01	7631.38	8172.93	7462.29	6465.56	6869.82
v-rel avian reticuloendotheliosis viral oncogene homolog B	Relb	100752828	18.56	18.00	16.46	13.15	10.02	10.56	1217.54	1168.50	1069.44	865.71	664.46	715.96
RELT-like 2	Rell2	100750889	2.40	2.46	2.44	2.65	1.87	2.03	233.94	217.78	212.40	243.37	194.58	222.45
reelin	Reln	100758172	0.02	0.03	0.03	0.02	0.02	0.01	8.35	12.81	9.94	6.95	8.28	2.80
RELT tumor necrosis factor receptor	Relt	100752479	4.55	4.31	5.15	3.73	2.89	3.17	423.06	397.12	478.20	352.31	270.13	293.49
RAS (RAD and GEM)-like GTP-binding 1	Rem1	100757881	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

RAS (RAD and GEM)-like GTP binding 2	Rem2	100764771	0.07	0.04	0.00	0.10	0.00	0.00	1.52	0.92	0.00	2.32	0.00	0.00
renin	Ren	100763117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
renin binding protein	Renbp	100768545	0.00	0.00	0.00	0.00	0.00	0.00	3.04	3.66	2.48	1.16	1.03	0.00
RAB15 effector protein	Rep15	100754436	0.05	0.06	0.00	0.08	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.93
replication initiator 1	Repin1	100765133	12.10	11.95	10.64	8.31	7.34	7.33	1055.00	1033.07	942.74	742.87	640.66	654.27
RALBP1 associated Eps domain containing 1	Reps1	100770024	35.49	37.41	38.37	40.67	35.91	37.10	2772.32	2923.53	3013.30	3169.65	2828.62	2935.80
RALBP1 associated Eps domain containing 2	Reps2	100751880	0.14	0.05	0.00	0.00	0.00	0.00	9.87	6.41	0.00	1.16	0.00	0.00
retention in endoplasmic reticulum sorting receptor 1	Rer1	100757730	156.77	164.11	171.95	177.47	184.38	178.92	5113.98	5332.82	5567.03	5672.91	5959.45	5878.14
arginine-glutamic acid dipeptide (RE) repeats	Rere	100770191	13.95	13.85	14.37	12.40	10.72	10.78	2987.27	2961.05	3069.20	2665.52	2287.32	2316.11
RAS-like, estrogen-regulated, growth inhibitor	Rerg	100756816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RERG/RAS-like	Rergl	100754817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulated endocrine-specific protein 18	Resp18	100767600	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.93
RE1-silencing transcription factor	Rest	100756480	8.29	8.69	8.60	10.46	10.11	9.41	1583.64	1660.79	1659.43	2004.93	1917.83	1802.98
ret proto-oncogene	Ret	100772741	0.02	0.01	0.00	0.01	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
resistin	Retn	100769021	0.07	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
retinol saturase (all-trans-retinol 13,14-reductase)	Retsat	100750576	4.57	4.90	2.11	3.32	3.49	3.68	322.80	333.99	150.29	228.31	247.36	251.43
REV1, polymerase (DNA directed)	Rev1	100756056	9.11	8.98	7.57	9.48	9.28	8.76	1406.67	1367.98	1188.68	1464.87	1460.37	1373.96
REV3-like, polymerase (DNA directed), zeta, catalytic subunit	Rev3l	100774890	5.90	5.62	4.99	6.33	6.82	5.99	1816.82	1719.35	1548.88	1956.26	2096.88	1858.12
REX1, RNA exonuclease 1 homolog (S. cerevisiae)	Rexo1	100768918	8.45	8.68	8.71	5.51	4.16	4.02	1196.27	1214.25	1216.00	771.84	575.45	571.08
RNA exonuclease 2	Rexo2	100768560	322.55	342.73	331.33	344.34	384.55	356.42	8505.32	8902.36	8648.65	8806.63	9801.32	9227.06
REX4, RNA exonuclease 4 homolog (S. cerevisiae)	Rexo4	100770295	16.21	16.93	15.56	14.59	13.44	13.05	1128.68	1192.29	1115.39	1046.50	950.12	943.08
replication factor C (activator 1) 1, 145kDa	Rfc1	100753096	53.16	52.46	53.16	61.35	62.21	59.44	7290.82	7234.26	7291.05	8289.75	8442.38	8074.61
replication factor C (activator 1) 2, 40kDa	Rfc2	100770063	22.82	23.01	28.34	28.58	28.92	30.65	1191.72	1206.93	1464.42	1464.87	1485.21	1565.57
replication factor C (activator 1) 3, 38kDa	Rfc3	100768752	24.76	25.07	27.80	29.70	30.26	34.14	813.47	860.13	929.08	970.02	980.13	1089.82
replication factor C (activator 1) 4, 37kDa	Rfc4	100763988	56.22	56.15	62.22	70.88	77.25	71.41	2032.53	2035.95	2248.18	2528.76	2775.83	2543.24
replication factor C (activator 1) 5, 36.5kDa	Rfc5	100753174	38.29	40.90	48.70	51.09	51.22	54.46	1462.11	1518.04	1796.06	1811.39	1860.91	1972.15
Rieske (Fe-S) domain containing	Rfesd	100758548	10.06	10.50	10.09	9.71	10.66	10.71	806.63	840.00	808.60	782.27	850.76	861.77
ring finger and FYVE-like domain containing E3 ubiquitin protein ligase	Rffl	100765673	14.37	14.12	9.79	9.70	10.20	9.47	1613.26	1613.20	1120.36	1116.04	1141.59	1072.07
riboflavin kinase	Rfk	100767410	26.36	29.31	36.83	35.70	40.77	39.33	607.63	664.31	789.97	755.62	862.14	829.99
RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	Rfng	100771257	44.04	41.16	20.76	16.50	10.16	12.00	1899.61	1804.45	873.19	684.92	444.01	496.31
ret finger protein-like 4A	Rfpl4a	100769785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ret finger protein-like 4B	Rfpl4b	100757891	0.00	0.00	0.05	0.05	0.00	0.00	1.52	0.00	1.24	1.16	1.03	0.00
RFT1 homolog (S. cerevisiae)	Rft1	100774638	4.18	4.23	2.89	3.16	3.19	3.59	381.29	384.31	274.50	307.11	297.04	333.68
raftlin, lipid raft linker 1	Rftn1	100770810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

raftlin family member 2	Rftn2	100771692	10.15	10.14	7.34	6.98	12.04	11.47	675.99	685.36	511.74	484.43	762.78	723.43
ring finger and WD repeat domain 2, E3 ubiquitin protein ligase	Rfwd2	100754677	37.51	38.11	42.48	44.99	46.74	45.38	2464.70	2507.19	2762.40	2850.94	2962.13	2924.58
ring finger and WD repeat domain 3	Rfwd3	100772185	13.44	13.53	16.16	17.63	18.94	19.58	1774.28	1770.59	2122.73	2305.09	2433.25	2520.80
regulatory factor X, 1 (influences HLA class II expression)	Rfx1	100767562	3.85	3.74	3.83	3.15	2.19	2.36	495.98	474.90	504.29	400.99	281.52	310.31
regulatory factor X, 2 (influences HLA class II expression)	Rfx2	100760779	2.98	2.62	3.38	2.61	2.14	2.00	276.47	247.97	317.97	238.74	193.54	186.93
regulatory factor X, 3 (influences HLA class II expression)	Rfx3	100760331	1.13	1.83	1.21	1.49	1.71	1.97	110.89	159.22	115.51	136.75	166.63	180.39
regulatory factor X, 4 (influences HLA class II expression)	Rfx4	100760011	0.10	0.04	0.05	0.02	0.02	0.00	6.84	2.75	2.48	1.16	1.03	0.00
regulatory factor X, 5 (influences HLA class II expression)	Rfx5	100770896	15.87	16.11	19.55	20.47	20.82	21.41	1774.28	1816.34	2186.07	2315.52	2315.26	2388.08
regulatory factor X, 6	Rfx6	100774034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulatory factor X, 7	Rfx7	100769524	9.07	8.12	8.61	10.12	10.67	10.30	1915.56	1723.01	1842.01	2150.96	2250.06	2191.80
RFX family member 8, lacking RFX DNA binding domain	Rfx8	100761352	0.00	0.12	0.05	0.06	0.03	0.10	3.04	7.32	4.97	2.32	5.17	7.48
regulatory factor X-associated ankyrin-containing protein	Rfxank	100768124	21.69	19.55	20.49	17.24	12.12	13.67	897.78	855.56	936.53	764.89	544.40	617.82
retrotransposon gag domain containing 1	Rgag1	100759351	0.03	0.06	0.12	0.10	0.06	0.04	3.80	8.24	19.87	15.07	8.28	6.54
retrotransposon gag domain containing 4	Rgag4	100758014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of cell cycle	Rgcc	100771295	0.00	0.00	0.20	0.00	0.06	0.05	0.00	0.00	3.73	1.16	1.03	2.80
ral guanine nucleotide dissociation stimulator-like 1	Rgl1	100762723	2.86	3.12	3.00	3.04	2.51	2.42	340.27	374.25	349.03	355.79	302.22	293.49
ral guanine nucleotide dissociation stimulator-like 2	Rgl2	100752656	14.26	13.51	14.44	9.85	7.91	8.52	1484.90	1397.26	1490.50	983.92	866.28	913.17
ral guanine nucleotide dissociation stimulator-like 3	Rgl3	100769085	0.11	0.09	0.17	0.09	0.04	0.05	12.15	7.32	13.66	6.95	4.14	3.74
repulsive guidance molecule family member a	Rgma	100758121	1.50	1.43	1.86	1.50	1.10	1.02	130.64	126.27	167.68	137.91	98.32	91.60
repulsive guidance molecule family member b	Rgmb	100753047	5.66	5.63	5.94	6.47	6.81	6.45	641.81	637.78	675.70	734.76	761.75	740.26
regucalcin	Rgn	100752401	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RGP1 retrograde golgi transport homolog (S. cerevisiae)	Rgp1	100755470	8.82	8.36	8.39	8.21	6.89	8.10	366.10	351.37	349.03	367.38	296.01	335.55
retinal G protein coupled receptor	Rgr	100754519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 1	Rgs1	100758831	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 10	Rgs10	100758318	12.77	11.48	14.17	16.07	20.85	18.03	286.35	272.68	317.97	346.52	447.11	386.02
regulator of G-protein signaling 11	Rgs11	100774091	0.01	0.00	0.04	0.04	0.09	0.02	6.84	4.58	16.15	8.11	8.28	5.61
regulator of G-protein signaling 12	Rgs12	100765309	3.40	3.80	4.23	4.16	3.77	4.23	426.86	480.39	552.73	518.04	468.85	524.35
regulator of G-protein signaling 13	Rgs13	100758543	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
regulator of G-protein signaling 14	Rgs14	100772621	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
regulator of G-protein signaling 16	Rgs16	100762431	1.63	1.86	0.38	0.39	0.22	0.28	101.78	120.78	23.60	24.34	13.45	17.76
regulator of G-protein signaling 17	Rgs17	100770397	2.17	2.03	3.14	3.78	4.69	4.32	451.17	425.49	675.70	781.11	983.24	906.63
regulator of G-protein signaling 18	Rgs18	100759408	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 19	Rgs19	100766929	60.90	58.90	58.59	61.10	57.80	60.93	1832.01	1759.61	1789.85	1646.83	1456.23	1533.79
regulator of G-protein signaling 2, 24kDa	Rgs2	100758258	1.18	0.90	0.76	0.60	0.70	0.74	50.89	42.09	33.54	26.66	28.98	32.71

regulator of G-protein signaling 20	Rgs20	100755874	0.04	0.00	0.06	0.00	0.03	0.02	1.52	0.00	2.48	0.00	1.03	2.80
regulator of G-protein signaling 21	Rgs21	100759122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 22	Rgs22	100763225	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	1.03	0.93
regulator of G-protein signaling 3	Rgs3	100750980	1.22	1.13	0.38	0.38	0.00	0.00	170.90	160.13	52.17	52.15	0.00	0.00
regulator of G-protein signaling 4	Rgs4	100770449	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 5	Rgs5	100770163	0.05	0.06	0.00	0.00	0.00	0.07	1.52	1.83	0.00	0.00	0.00	0.93
regulator of G-protein signaling 6	Rgs6	100760410	0.02	0.00	0.03	0.03	0.00	0.00	0.76	0.00	1.24	2.32	0.00	0.93
regulator of G-protein signaling 7	Rgs7	100773500	0.10	0.16	0.00	0.00	0.00	0.02	5.32	7.32	0.00	0.00	0.00	0.93
regulator of G-protein signaling 7 binding protein	Rgs7bp	100752948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 8	Rgs8	100762134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling 9	Rgs9	100774862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of G-protein signaling like 1	Rgsl1	100766509	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Rh-associated glycoprotein	Rhag	100764399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rhomboid domain containing 2	Rhbdd2	100762616	11.87	11.18	12.87	12.04	8.47	10.15	565.86	541.70	617.32	570.19	405.71	490.70
rhomboid domain containing 3	Rhbdd3	100752229	20.87	19.50	21.51	16.49	16.64	18.02	1432.49	1353.33	1509.14	1179.78	1148.83	1301.99
rhomboid 5 homolog 1 (Drosophila)	Rhbdf1	100759182	10.38	10.26	10.62	8.73	6.06	6.53	1021.58	990.98	1014.78	843.69	586.84	648.66
rhomboid 5 homolog 2 (Drosophila)	Rhbdf2	100755685	8.57	7.87	7.64	6.30	4.32	4.62	1051.20	999.22	957.65	776.48	530.95	569.21
rhomboid, veinlet-like 1 (Drosophila)	Rhbdl1	100771192	0.33	0.36	0.28	0.30	0.16	0.22	48.61	51.24	37.26	34.77	18.63	23.37
rhomboid, veinlet-like 2 (Drosophila)	Rhbdl2	100770158	1.69	1.64	1.17	1.58	1.68	1.93	71.40	68.63	62.10	62.58	79.69	85.99
rhomboid, veinlet-like 3 (Drosophila)	Rhbdl3	100772788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Rh family, B glycoprotein	Rhbg	100754688	0.11	0.04	0.00	0.00	0.00	0.00	8.35	2.75	0.00	0.00	0.00	0.00
Rh family, C glycoprotein	Rhcg	100761310	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	1.24	0.00	1.03	1.87
Ras homolog enriched in brain	Rheb	100768233	132.59	131.63	136.85	147.73	169.12	168.79	3803.01	3747.98	3784.64	4001.75	4603.62	4592.97
Ras homolog enriched in brain like 1	Rhebl1	100765176	10.97	10.88	14.10	14.36	16.25	14.82	372.17	382.48	483.17	483.27	522.67	474.81
RAD9-HUS1-RAD1 interacting nuclear orphan 1	Rhno1	100769819	47.65	47.11	56.96	62.36	59.66	58.66	1869.99	1842.88	2266.81	2424.46	2257.31	2285.27
rhodopsin	Rho	100689279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ras homolog family member A	Rhoa	100762797	141.83	144.05	152.75	159.29	181.05	181.81	7438.93	7600.27	8032.58	8273.53	9386.29	9437.36
ras homolog family member B	Rhob	100774759	12.28	12.52	8.68	7.27	5.95	6.38	660.80	676.21	469.51	390.56	317.74	342.09
Rho-related BTB domain containing 1	Rhobtb1	100767011	4.17	4.28	3.19	3.11	2.58	2.58	868.15	887.58	684.39	669.86	533.02	558.93
Rho-related BTB domain containing 2	Rhobtb2	100770205	3.70	3.76	3.26	3.05	3.31	3.14	538.51	556.34	490.62	450.82	507.14	464.53
Rho-related BTB domain containing 3	Rhobtb3	100757972	24.64	25.10	26.94	28.91	28.89	27.69	2928.78	3019.61	3300.22	3433.88	3494.11	3297.51
ras homolog family member C	Rhoc	100774717	72.65	71.59	88.13	84.72	71.48	76.16	1644.40	1632.42	2029.57	2070.99	1791.56	1923.55
ras homolog family member D	Rhod	100760521	15.62	14.18	17.94	15.31	14.07	14.84	442.81	403.53	500.56	410.26	385.01	420.60
ras homolog family member F (in filopodia)	Rhof	100767931	1.86	2.02	2.32	2.27	2.14	2.76	142.03	164.71	196.25	184.27	181.12	220.58
ras homolog family member G	Rhog	100761011	28.17	27.22	31.39	28.84	24.28	27.80	943.35	887.58	1039.63	927.14	787.62	924.39
ras homolog family member H	Rhoh	100768495	0.00	0.08	0.00	0.00	0.00	0.08	1.52	1.83	0.00	0.00	0.00	2.80
ras homolog family member J	Rhoj	100766581	0.62	0.75	0.37	0.23	0.03	0.03	23.55	22.88	12.42	8.11	1.03	0.93
ras homolog family member Q	Rhoq	100765469	19.95	21.16	22.81	25.56	26.64	25.40	300.78	336.73	402.44	414.89	386.05	399.10
ras homolog family member T1	Rhot1	100761802	9.58	9.09	10.15	11.65	12.72	13.04	557.50	559.09	611.11	697.67	748.30	736.52
ras homolog family member T2	Rhot2	100760480	11.86	13.27	13.42	12.07	10.30	10.83	944.87	1023.92	1032.17	939.88	770.03	827.18

ras homolog family member U	Rhou	100775019	5.50	7.87	5.84	6.80	6.92	7.41	211.15	247.97	196.25	232.94	225.63	263.58
ras homolog family member V	Rhov	100764149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rhophilin, Rho GTPase binding protein 1	Rhpn1	100757247	3.07	2.66	3.64	2.58	2.44	2.68	227.86	206.80	270.77	202.81	184.23	193.48
rhophilin, Rho GTPase binding protein 2	Rhpn2	100757315	0.04	0.03	0.05	0.07	0.07	0.09	3.80	8.24	3.73	8.11	10.35	12.15
RIB43A domain with coiled-coils 1	Ribc1	100757973	6.23	6.54	4.65	4.18	4.92	5.47	263.56	269.93	203.70	203.97	203.89	224.32
RIB43A domain with coiled-coils 2	Ribc2	100764612	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
RIC3 acetylcholine receptor chaperone	Ric3	100768451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIC8 guanine nucleotide exchange factor A	Ric8a	100769942	39.74	40.37	48.54	42.62	36.33	37.63	2505.72	2556.60	3070.44	2614.52	2174.51	2282.46
RIC8 guanine nucleotide exchange factor B	Ric8b	100762533	4.55	5.39	6.22	7.07	7.37	7.17	387.37	434.64	522.92	579.46	595.12	599.12
RPTOR independent companion of MTOR, complex 2	Rictor	100750773	10.84	10.43	11.04	14.03	13.68	12.59	1836.57	1799.87	1894.18	2361.88	2289.39	2166.56
RAP1 interacting factor homolog (yeast)	Rif1	100771823	12.62	12.21	12.83	14.98	16.97	14.98	3160.44	3086.41	3272.90	3814.01	4265.18	3773.26
regulatory subunit of type II PKA R-subunit (RIIa) domain containing 1	Riiad1	100753471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rab interacting lysosomal protein	Rilp	100767148	8.39	8.40	11.54	10.72	9.97	10.64	412.43	420.00	531.61	508.77	468.85	492.57
Rab interacting lysosomal protein-like 1	Rilpl1	100773536	25.06	25.66	29.78	29.09	24.74	24.46	1096.02	1136.47	1310.40	1240.04	1061.90	1063.65
Rab interacting lysosomal protein-like 2	Rilpl2	100774122	20.02	22.61	22.02	19.18	18.00	18.05	679.79	769.54	751.46	638.56	602.36	610.34
RIMS binding protein 2	Rimbp2	100758897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribosomal modification protein rimK-like family member A	Rimkla	100759423	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
ribosomal modification protein rimK-like family member B	Rimklb	100760031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulating synaptic membrane exocytosis 1	Rims1	100758413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulating synaptic membrane exocytosis 2	Rims2	100752044	1.32	1.29	1.84	2.01	1.58	1.55	310.65	304.71	412.37	467.04	353.97	347.70
regulating synaptic membrane exocytosis 3	Rims3	100753626	1.01	1.46	0.04	0.31	0.14	0.22	34.94	51.24	1.24	10.43	6.21	9.35
regulating synaptic membrane exocytosis 4	Rims4	100761753	0.00	0.00	0.06	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.93
Ras and Rab interactor 1	Rin1	100762837	8.01	8.30	7.46	6.59	6.83	6.77	775.49	800.65	725.38	655.95	678.95	670.16
Ras and Rab interactor 2	Rin2	100764316	30.85	31.09	27.95	29.95	34.84	35.67	4114.42	4236.61	3777.19	3992.48	4613.97	4778.97
Ras and Rab interactor 3	Rin3	100752649	0.16	0.11	0.12	0.13	0.05	0.08	21.27	15.56	18.63	22.02	7.24	13.09
ring finger protein 1	Ring1	100766521	43.57	41.87	45.32	30.90	21.79	22.87	1945.18	1884.97	2007.21	1374.48	979.10	1001.03
Ras and Rab interactor-like	Rinl	100768629	0.13	0.07	0.06	0.03	0.00	0.05	6.84	4.58	3.73	1.16	1.03	4.67
RAD50 interactor 1	Rint1	100763529	8.19	9.17	11.10	12.66	13.36	12.84	827.90	906.80	1104.22	1247.00	1314.43	1254.33
RIO kinase 1	Riok1	100765917	35.18	36.29	35.43	37.96	40.00	37.87	2120.63	2201.57	2106.58	2145.16	2263.52	2113.29
RIO kinase 2	Riok2	100758835	59.39	61.75	61.17	61.28	62.80	61.69	3174.87	3311.51	3266.69	3217.16	3268.49	3251.72
RIO kinase 3	Riok3	100754135	28.23	28.71	28.11	28.16	32.15	31.24	2570.28	2640.79	2598.45	2583.23	2899.00	2826.44
receptor (TNFRSF)-interacting serine-threonine kinase 1	Ripk1	100761116	12.72	13.04	12.75	12.54	13.93	13.01	1475.78	1512.55	1460.69	1445.17	1598.02	1519.77
receptor-interacting serine-threonine kinase 2	Ripk2	100751944	15.26	14.48	19.38	20.89	21.91	19.62	712.45	690.85	919.14	989.72	1040.16	923.45

receptor-interacting serine-threonine kinase 3	Ripk3	100768712	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
receptor-interacting serine-threonine kinase 4	Ripk4	100763487	0.02	0.01	0.03	0.04	0.04	0.01	1.52	0.92	2.48	5.79	4.14	1.87
ripply transcriptional repressor 1	Ripply1	100762657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ripply transcriptional repressor 2	Ripply2	100761028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ripply transcriptional repressor 3	Ripply3	100752538	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.03	0.00
Ras-like without CAAX 1	Rit1	100759141	30.39	30.90	27.32	28.53	28.50	29.21	1485.66	1532.68	1358.84	1382.59	1423.11	1432.85
Ras-like without CAAX 2	Rit2	100773742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RBPJ interacting and tubulin associated 1	Rita1	100771723	4.07	3.54	4.98	3.64	3.93	3.59	309.13	283.66	424.79	303.64	328.09	301.90
retinaldehyde binding protein 1	Rlbp1	100754920	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rearranged L-myc fusion	Rlf	100752130	5.63	5.79	5.88	7.20	6.34	6.19	988.92	1004.71	1034.66	1271.34	1109.51	1095.43
ring finger protein, LIM domain interacting	Rlim	100760995	29.70	30.49	29.85	34.43	36.61	35.60	6191.76	6373.21	6304.83	7225.87	7624.74	7484.83
relaxin 3	Rln3	100767847	0.06	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing	Rltpr	100767020	0.06	0.10	0.08	0.07	0.02	0.02	9.11	17.39	11.18	16.22	4.14	2.80
regulator of microtubule dynamics 1	Rmdn1	100757643	6.89	7.30	5.19	6.14	7.36	8.14	173.17	183.92	134.15	144.86	189.40	187.87
regulator of microtubule dynamics 2	Rmdn2	100759529	3.89	4.45	4.35	5.11	6.71	6.86	260.52	279.09	267.05	327.97	374.67	393.50
regulator of microtubule dynamics 3	Rmdn3	100752341	26.35	27.45	26.09	24.38	25.66	26.56	1685.42	1771.50	1720.29	1593.51	1697.38	1735.68
RecQ mediated genome instability 1	Rmi1	100763534	15.25	15.51	19.49	19.22	20.84	20.49	1236.53	1271.90	1602.29	1585.40	1717.04	1689.88
RecQ mediated genome instability 2	Rmi2	100751512	12.50	10.49	14.10	14.54	16.98	16.21	333.44	286.41	388.77	389.40	449.18	435.56
required for meiotic nuclear division 1 homolog (S. cerevisiae)	Rmnd1	100767911	15.11	14.41	16.79	15.94	17.94	17.68	710.17	684.45	827.23	748.66	867.32	864.57
required for meiotic nuclear division 5 homolog A (S. cerevisiae)	Rmnd5a	100766802	23.91	25.26	24.63	25.96	30.75	28.51	3099.68	3316.08	3244.33	3404.91	3954.68	3739.61
required for meiotic nuclear division 5 homolog B (S. cerevisiae)	Rmnd5b	100759117	11.92	11.45	12.62	12.03	11.46	12.51	679.03	656.08	737.80	697.67	664.46	737.45
45S ribosomal RNA	Rn45s	100861539	0.30	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.93
ribonuclease, RNase A family, 1 (pancreatic)	Rnase1	100756274	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ribonuclease, RNase A family, 10 (non-active)	Rnase10	100758017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
ribonuclease, RNase A family, 11 (non-active)	Rnase11	100754826	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease, RNase A family, 12 (non-active)	Rnase12	100755117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ribonuclease, RNase A family, 13 (non-active)	Rnase13	100753436	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease, RNase A family, 4	Rnase4	100755695	20.77	19.94	18.10	16.91	21.80	20.89	714.73	726.54	633.46	617.70	784.52	763.63
ribonuclease, RNase A family, k6	Rnase6	100755989	0.12	0.00	0.14	0.00	0.05	0.15	0.76	0.00	2.48	0.00	0.00	0.00
ribonuclease, RNase A family, 9 (non-active)	Rnase9	100758302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease H1	Rnaseh1	100689390	23.94	20.94	26.17	22.51	21.46	21.64	897.02	796.08	993.67	843.69	780.38	825.31

ribonuclease H2, subunit A	Rnaseh 2a	100762806	59.32	58.00	80.82	72.89	67.42	72.95	2085.69	2041.44	2833.20	2499.79	2350.45	2511.46
ribonuclease H2, subunit B	Rnaseh 2b	100751948	16.17	17.36	16.69	18.33	18.39	18.40	720.04	753.99	716.68	761.41	795.90	774.84
ribonuclease H2, subunit C	Rnaseh 2c	100761313	35.45	28.21	36.58	20.87	21.42	21.79	631.94	501.44	647.13	383.60	404.68	416.86
ribonuclease L (2',5'-oligoisoadenylate synthetase-dependent)	Rnasel	100763013	5.11	5.11	5.35	5.81	6.92	6.46	434.46	423.66	468.27	480.95	567.17	536.50
ribonuclease T2	Rnaset2	100755121	184.62	181.50	263.24	273.44	269.80	272.32	5049.42	4925.63	7046.36	7083.32	7164.18	7114.71
Rho family GTPase 1	Rnd1	100767501	1.79	1.13	0.98	1.40	0.87	1.01	76.71	51.24	42.23	57.95	37.26	42.99
Rho family GTPase 2	Rnd2	100770443	17.11	16.13	9.70	6.60	5.63	6.70	563.58	522.48	322.94	224.83	189.40	228.06
Rho family GTPase 3	Rnd3	100755904	36.34	36.53	46.91	53.40	62.72	59.40	2883.97	2887.85	3747.38	4230.06	4918.25	4720.08
ring finger protein 10	Rnf10	100755177	65.89	60.12	76.92	82.97	76.41	82.50	4990.17	4592.55	5893.70	6218.76	5787.64	6259.48
ring finger protein 103	Rnf103	100770542	6.38	6.27	8.56	8.77	8.75	8.43	458.00	457.52	613.59	625.82	622.03	605.67
ring finger protein 11	Rnf11	100750535	51.11	53.03	49.53	48.73	59.75	58.48	3098.92	3204.45	3023.24	2934.39	3548.97	3505.95
ring finger protein 111	Rnf111	100773181	18.05	17.57	17.94	19.07	29.16	29.28	2358.37	2309.54	2381.08	2497.47	3794.26	3844.30
ring finger protein 112	Rnf112	100757943	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ring finger protein 113A	Rnf113a	100763475	10.66	10.63	10.80	10.23	8.64	8.21	335.72	330.33	344.06	309.43	261.85	249.56
ring finger protein 114	Rnf114	100760193	39.21	36.66	41.29	39.74	46.55	48.02	2130.51	1989.28	2251.90	2138.21	2511.91	2594.64
ring finger protein 115	Rnf115	100773103	37.87	37.94	37.87	41.74	47.79	45.67	2328.75	2358.04	2351.27	2569.33	2916.59	2797.47
ring finger protein 121	Rnf121	100759075	18.67	17.55	20.72	20.81	21.35	21.84	1257.80	1190.46	1393.62	1405.77	1421.04	1448.74
ring finger protein 122	Rnf122	100761134	2.24	2.43	3.23	3.01	3.14	2.60	57.72	61.31	84.46	79.97	74.52	65.43
ring finger protein 123	Rnf123	100760863	12.86	12.87	17.76	15.65	10.82	12.94	1760.61	1811.77	2507.77	2286.55	1651.84	1883.36
ring finger protein 125, E3 ubiquitin protein ligase	Rnf125	100775067	1.23	1.42	1.56	1.48	1.81	1.05	47.85	64.97	64.59	67.22	74.52	54.21
ring finger protein 126	Rnf126	103160352	32.39	31.37	27.09	16.25	8.66	9.41	2112.28	2061.57	1835.80	1074.32	593.05	629.97
ring finger protein 128, E3 ubiquitin protein ligase	Rnf128	100761486	0.00	0.00	0.00	0.00	0.00	0.03	1.52	0.00	1.24	0.00	1.03	0.93
ring finger protein 13	Rnf13	100769516	56.54	57.83	54.57	59.54	67.66	62.57	4101.51	4225.62	3952.32	4293.80	4801.30	4472.39
ring finger protein 130	Rnf130	100767479	13.46	13.75	13.47	15.26	16.55	17.37	538.51	554.51	537.82	582.94	658.25	676.70
ring finger protein 133	Rnf133	103163635	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 135	Rnf135	100772496	7.65	7.32	5.61	6.50	7.27	6.68	352.43	339.48	259.60	293.21	333.27	314.05
ring finger protein 138, E3 ubiquitin protein ligase	Rnf138	100774783	13.42	13.66	12.32	12.89	13.09	13.78	910.69	933.33	834.68	901.64	907.68	948.69
ring finger protein 139	Rnf139	100762505	38.65	39.67	27.85	30.60	30.49	31.07	2226.21	2290.33	1630.86	1760.40	1750.16	1800.17
ring finger protein 14	Rnf14	100751183	11.37	11.55	10.88	11.08	11.82	11.72	530.92	578.30	515.47	527.31	560.96	591.65
ring finger protein 141	Rnf141	100758100	13.01	12.94	15.18	14.37	19.61	16.85	758.02	752.16	874.43	828.63	1109.51	994.49
ring finger protein 144A	Rnf144a	100753623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 144B	Rnf144b	100762975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 145	Rnf145	100762228	5.94	5.70	5.33	5.53	5.67	5.57	595.48	576.47	524.16	542.37	558.89	553.32
ring finger protein 146	Rnf146	100760329	25.40	23.96	12.87	13.54	12.21	11.86	1159.06	1083.40	601.17	620.02	562.00	545.85
ring finger protein 148	Rnf148	103163629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 149	Rnf149	100759889	25.47	27.63	31.65	34.53	36.45	33.02	1138.55	1245.36	1419.71	1499.64	1609.40	1459.95
ring finger protein 150	Rnf150	100774190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 151	Rnf151	100766591	0.84	0.79	0.83	0.39	0.30	0.50	26.58	27.45	27.33	18.54	15.52	12.15

ring finger protein 152	Rnf152	100756561	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ring finger protein 157	Rnf157	100760898	2.45	2.30	2.60	2.69	2.62	2.71	231.66	238.82	263.32	271.19	251.50	260.77
ring finger protein 165	Rnf165	100769567	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 166	Rnf166	100754557	23.87	23.30	28.16	23.78	17.25	19.39	1112.72	1091.64	1324.06	1113.72	799.01	920.65
ring finger protein 167	Rnf167	100770887	9.06	8.95	11.46	10.97	11.01	11.75	422.30	417.26	491.87	497.18	481.27	512.20
ring finger protein 168, E3 ubiquitin protein ligase	Rnf168	100753166	11.62	12.15	15.21	16.57	17.18	15.67	1185.64	1234.38	1546.40	1673.48	1740.85	1587.07
ring finger protein 169	Rnf169	100756964	3.48	4.23	4.00	4.29	4.27	4.04	458.76	551.77	516.71	559.76	563.03	524.35
ring finger protein 17	Rnf17	100753029	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.92	1.24	2.32	1.03	0.00
ring finger protein 170	Rnf170	100752002	3.59	3.50	2.69	4.02	3.89	4.25	148.11	145.49	127.93	168.04	166.63	172.91
ring finger protein 180	Rnf180	100753549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 181	Rnf181	100773902	30.31	29.99	33.96	30.69	37.15	37.69	1203.11	1185.88	1348.91	1209.91	1432.42	1480.52
ring finger protein 182	Rnf182	100766488	0.04	0.05	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
ring finger protein 183	Rnf183	100753211	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
ring finger protein 185	Rnf185	100761198	19.22	18.89	20.61	21.88	21.98	21.97	1539.59	1522.62	1660.67	1744.17	1734.64	1757.18
ring finger protein 186	Rnf186	100753534	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	1.16	0.00	2.80
ring finger protein 187	Rnf187	100762725	80.89	81.09	73.36	67.94	66.65	74.65	3717.94	3757.13	3399.59	3103.59	3021.13	3387.24
ring finger protein 19A, RBR E3 ubiquitin protein ligase	Rnf19a	100756962	4.04	4.27	6.53	6.21	5.53	5.38	505.09	538.95	822.26	775.32	685.16	664.55
ring finger protein 19B	Rnf19b	100757011	20.00	19.12	18.26	17.71	16.26	16.04	1144.63	1103.53	1063.23	1003.62	920.10	924.39
ring finger protein 2	Rnf2	100752124	29.85	30.13	29.21	32.14	37.05	34.47	2532.30	2583.14	2491.63	2708.40	3082.19	2908.69
ring finger protein 20, E3 ubiquitin protein ligase	Rnf20	100754600	37.32	36.17	38.38	41.84	46.33	45.29	4644.58	4577.00	4835.44	5209.34	5690.35	5567.83
ring finger protein 207	Rnf207	100766640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ring finger protein 208	Rnf208	100772313	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
ring finger protein 212	Rnf212	103159853	12.73	12.01	14.57	15.73	14.33	16.42	240.01	247.97	281.95	280.46	308.43	339.29
ring finger protein 213	Rnf213	100753392	13.00	13.33	14.12	15.59	15.80	15.93	6462.92	6654.12	7108.46	7723.04	7760.33	7887.68
ring finger protein 214	Rnf214	100761598	26.78	25.22	27.20	27.34	31.09	30.21	2383.43	2254.64	2445.67	2440.69	2779.97	2706.80
ring finger protein 215	Rnf215	100759166	14.88	13.82	17.26	16.43	16.57	16.19	736.75	678.95	821.02	771.84	756.57	733.72
ring finger protein 216	Rnf216	100758416	37.42	37.98	39.46	39.57	38.15	40.39	4987.13	5103.14	5308.68	5256.86	5074.54	5407.06
ring finger protein 217	Rnf217	100762229	12.78	12.47	6.07	6.09	5.93	6.15	785.36	781.44	385.05	392.87	376.74	395.37
ring finger protein 219	Rnf219	100756107	11.89	13.41	14.04	13.99	13.55	13.69	1008.67	1131.90	1192.40	1207.59	1148.83	1187.97
ring finger protein 220	Rnf220	100762776	25.05	25.18	24.76	20.40	15.63	17.42	2465.46	2505.36	2383.56	1938.87	1485.21	1632.87
ring finger protein 222	Rnf222	100759786	0.00	0.06	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
ring finger protein 223	Rnf223	100766441	8.02	8.25	7.73	8.56	8.89	9.10	880.31	908.63	873.19	974.65	974.96	1024.40
ring finger protein 224	Rnf224	100772898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger protein 24	Rnf24	100764634	4.22	4.14	3.85	4.37	5.30	5.26	1006.39	987.32	922.87	1052.30	1267.86	1265.54
ring finger protein 25	Rnf25	100771315	13.71	14.89	17.74	17.15	15.93	15.95	1121.08	1201.44	1435.85	1386.07	1255.44	1256.20
ring finger protein 26	Rnf26	100760368	39.24	37.49	46.22	42.04	36.77	37.49	2574.84	2474.25	3111.43	2872.96	2518.12	2600.25
ring finger protein 31	Rnf31	100760689	16.10	14.40	17.45	17.42	15.33	17.19	1949.74	1786.15	2150.05	2128.94	1897.13	2087.12
ring finger protein 32	Rnf32	100752173	0.37	0.44	0.47	0.54	0.52	0.43	46.33	60.39	58.38	84.60	62.10	60.75
ring finger protein 34, E3 ubiquitin protein ligase	Rnf34	100766863	13.55	13.20	9.80	9.92	13.62	13.05	747.39	732.94	546.52	565.55	727.60	715.02
ring finger protein 38	Rnf38	100758696	1.37	1.48	1.25	1.62	1.52	1.67	124.56	129.93	114.27	146.02	136.62	157.02
ring finger protein 39	Rnf39	100753435	0.00	0.00	0.05	0.00	0.00	0.00	0.76	0.00	2.48	0.00	1.03	1.87
ring finger protein 4	Rnf4	100770179	76.05	74.77	82.61	84.67	86.56	87.95	6449.25	6379.61	7055.05	7188.78	7278.02	7464.27

ring finger protein 40, E3 ubiquitin protein ligase	Rnf40	100750431	27.55	26.98	28.73	25.98	20.96	22.79	3648.07	3640.00	3854.20	3467.49	2767.55	3061.04
ring finger protein 41, E3 ubiquitin protein ligase	Rnf41	100766232	20.79	20.70	23.57	19.76	14.42	16.13	1068.67	1040.39	1198.61	973.49	727.60	799.14
ring finger protein 43	Rnf43	100753125	0.04	0.14	0.05	0.01	0.01	0.04	6.84	16.47	4.97	2.32	2.07	3.74
ring finger protein 44	Rnf44	100750465	6.01	5.31	4.92	4.03	3.47	3.77	694.22	632.29	572.60	467.04	386.05	429.95
ring finger protein 5, E3 ubiquitin protein ligase	Rnf5	100757912	26.74	22.71	26.31	19.45	17.78	17.29	739.79	649.67	732.83	527.31	477.13	461.73
ring finger protein (C3H2C3 type) 6	Rnf6	100759570	56.10	56.83	34.65	40.67	46.52	41.60	5036.50	5121.44	3136.27	3650.60	4169.96	3763.91
ring finger protein 7	Rnf7	103161028	60.04	53.14	29.64	29.60	31.44	29.66	833.97	723.79	401.19	405.62	421.24	431.82
ring finger protein 8, E3 ubiquitin protein ligase	Rnf8	103162332	7.32	6.79	9.81	10.27	9.40	9.59	381.29	366.93	494.35	520.36	495.76	504.72
ring finger protein, transmembrane 1	Rnft1	100759519	15.51	16.54	10.66	11.64	13.02	11.51	883.34	954.38	626.01	651.31	730.70	647.73
ring finger protein, transmembrane 2	Rnft2	100752081	1.76	1.66	0.85	0.98	1.16	1.29	223.30	195.82	113.03	113.57	153.18	141.14
RNA guanylyltransferase and 5'-phosphatase	Rngtt	100770876	9.52	9.90	9.38	10.49	11.64	10.78	1169.69	1232.55	1166.32	1285.24	1402.41	1317.88
ribonuclease/angiogenin inhibitor 1	Rnh1	100773448	110.49	101.89	126.53	120.89	98.76	122.50	5109.42	4808.50	5981.89	5601.06	4633.63	5633.25
renalase, FAD-dependent amine oxidase	Rnls	100759343	11.57	9.56	7.73	6.81	7.64	7.69	167.86	149.15	110.55	97.35	114.88	102.81
RNA (guanine-7-) methyltransferase	Rnmt	100757713	17.64	17.31	18.88	20.35	20.10	20.31	1960.37	1922.49	1879.28	2058.24	2109.30	2077.77
RNA methyltransferase like 1	Rnmtl1	100761762	9.64	9.31	9.87	10.55	9.56	10.82	687.38	666.14	700.54	752.14	682.06	771.10
RNA-binding region (RNP1, RRM) containing 3	Rnpc3	100773770	5.86	6.12	4.66	5.69	5.70	6.02	350.15	385.23	314.25	367.38	366.39	389.76
arginyl aminopeptidase (aminopeptidase B)	Rnpep	100755451	22.40	22.18	30.87	26.93	24.05	26.18	1484.90	1511.64	2050.69	1792.85	1630.10	1731.01
arginyl aminopeptidase (aminopeptidase B)-like 1	Rnpepl1	100752006	17.70	17.12	16.22	13.85	10.95	12.04	3343.49	3258.43	3113.91	2628.43	2038.92	2271.25
RNA binding protein S1, serine-rich domain	Rnps1	100689458	129.57	131.08	113.78	94.06	69.14	68.41	5394.25	5535.95	5041.63	4235.85	3391.65	3462.95
roundabout, axon guidance receptor, homolog 1 (Drosophila)	Robo1	100771010	6.26	6.62	4.33	4.44	4.89	4.69	1152.22	1176.73	767.61	788.07	878.70	839.33
roundabout, axon guidance receptor, homolog 2 (Drosophila)	Robo2	100750990	2.50	2.41	2.45	2.81	3.19	2.75	711.69	702.75	732.83	825.15	926.31	793.53
roundabout, axon guidance receptor, homolog 3 (Drosophila)	Robo3	100767075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
roundabout, axon guidance receptor, homolog 4 (Drosophila)	Robo4	100752993	0.02	0.05	0.13	0.12	0.00	0.05	1.52	2.75	6.21	4.64	0.00	3.74
Rho-associated, coiled-coil containing protein kinase 1	Rock1	100770074	12.76	12.55	11.19	13.89	16.04	14.41	1610.98	1641.57	1424.67	1746.49	2048.24	1821.67
Rho-associated, coiled-coil containing protein kinase 2	Rock2	100767265	60.95	60.48	59.14	75.60	81.65	76.31	12337.96	12355.70	12184.87	15371.91	16577.38	15426.72
retinal outer segment membrane protein 1	Rom1	100752645	13.64	11.01	13.77	10.08	10.37	11.63	550.67	453.86	567.63	418.37	428.48	474.81
reactive oxygen species modulator 1	Romo1	100757211	78.78	71.98	66.68	39.16	33.42	32.57	694.22	646.01	566.39	340.72	283.59	263.58
rhophilin associated tail protein 1	Ropn1	100757652	0.06	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
rhophilin associated tail protein 1-like	Ropn1l	100759891	0.05	0.17	0.31	0.07	0.13	0.17	1.52	3.66	4.97	2.32	2.07	4.67
receptor tyrosine kinase-like orphan receptor 1	Ror1	100756992	1.79	1.44	1.32	1.03	1.19	1.15	164.06	133.59	118.00	98.51	115.92	121.51
receptor tyrosine kinase-like orphan receptor 2	Ror2	100773441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RAR-related orphan receptor A	Rora	100759952	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
RAR-related orphan receptor B	Rorb	100771338	0.71	0.75	0.62	0.72	0.93	0.97	52.41	60.39	54.65	56.79	73.48	70.10

RAR-related orphan receptor C	Rorc	100769044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
c-ros oncogene 1 , receptor tyrosine kinase	Ros1	100760611	0.00	0.00	0.00	0.01	0.00	0.00	0.76	0.92	0.00	2.32	0.00	0.00
retinitis pigmentosa 1 (autosomal dominant)	Rp1	100754424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
retinitis pigmentosa 1-like 1	Rp1l1	100753486	0.00	0.00	0.00	0.01	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
retinitis pigmentosa 2 (X-linked recessive)	Rp2	100774633	7.22	7.06	7.77	7.99	9.24	8.06	261.28	260.78	293.13	293.21	340.51	290.68
retinitis pigmentosa 9 (autosomal dominant)	Rp9	100768648	20.26	20.69	21.54	20.32	19.43	16.52	518.01	538.95	537.82	508.77	512.32	422.47
replication protein A1, 70kDa	Rpa1	100772412	206.39	212.20	253.27	258.26	254.93	288.06	5906.18	6112.42	7503.45	7734.63	8140.17	8601.77
replication protein A2, 32kDa	Rpa2	100764034	35.07	38.45	24.23	28.47	28.64	28.10	1449.96	1594.90	1044.60	1169.35	1195.41	1150.58
replication protein A3, 14kDa	Rpa3	100760299	49.08	52.16	46.17	43.69	53.19	48.16	1046.65	1095.30	970.07	898.16	1111.58	1044.03
RPA interacting protein	Rpain	100754650	7.14	7.22	8.70	8.91	9.79	10.40	221.03	226.01	249.66	256.12	287.73	294.42
RNA polymerase II associated protein 1	Rpap1	100762111	10.19	10.06	10.91	8.98	6.39	7.13	1467.43	1431.11	1573.72	1281.77	931.49	1051.50
RNA polymerase II associated protein 2	Rpap2	100763199	12.36	13.00	15.98	16.58	15.49	15.08	756.50	810.72	982.49	1004.78	934.59	930.93
RNA polymerase II associated protein 3	Rpap3	100753705	22.71	22.08	20.82	21.77	26.69	22.04	1467.43	1429.28	1342.70	1374.48	1679.78	1403.87
ribulose-5-phosphate-3-epimerase	Rpe	100756130	35.46	35.85	34.76	36.46	40.21	37.89	1935.31	1947.19	1856.92	1899.47	2025.47	1876.82
retinal pigment epithelium-specific protein 65kDa	Rpe65	100767488	0.04	0.07	0.02	0.04	0.08	0.09	3.80	5.49	2.48	2.32	4.14	6.54
ribosome production factor 1 homolog (S. cerevisiae)	Rpf1	100767673	66.09	65.17	66.76	71.94	70.48	64.32	1783.40	1795.30	1794.82	1916.85	1887.82	1679.60
ribosome production factor 2 homolog (S. cerevisiae)	Rpf2	100770065	48.01	49.83	46.04	48.49	53.74	47.38	1538.07	1637.91	1510.38	1579.61	1737.74	1523.51
retinitis pigmentosa GTPase regulator	Rpgr	100765957	9.61	9.13	9.96	12.19	12.96	11.35	761.06	759.48	802.39	986.24	1034.99	940.28
retinitis pigmentosa GTPase regulator interacting protein 1	Rpgrip1	100757527	0.18	0.09	0.16	0.15	0.12	0.19	12.15	12.81	11.18	19.70	18.63	22.43
RPGRIP1-like	Rpgrip1l	100771072	2.72	2.77	2.62	3.19	4.04	3.43	597.76	594.77	591.23	712.74	883.88	751.47
rabphilin 3A homolog (mouse)	Rph3a	100761342	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
rabphilin 3A-like (without C2 domains)	Rph3al	100760314	27.20	25.75	18.73	17.18	11.68	14.61	1520.60	1458.56	1052.05	927.14	646.87	794.47
ribose 5-phosphate isomerase A	Rpia	100765051	43.16	41.01	40.94	42.04	41.53	43.47	1874.54	1813.60	1823.38	1846.16	1815.37	1842.23
ribosomal protein L10	Rpl10	100758401	1109.02	1104.27	1251.04	1116.03	1045.72	1135.07	23870.80	23793.62	26718.53	23433.36	22424.01	23934.09
ribosomal protein L10a	Rpl10a	100765562	1264.94	1239.86	1397.51	1373.61	1262.56	1338.19	14811.77	14743.02	16455.17	15142.45	14064.43	14486.45
ribosomal protein L11	Rpl11	100751864	1503.91	1555.83	1364.63	1318.55	1041.93	1149.01	20718.71	21421.85	18473.56	17320.06	14195.87	15335.13
ribosomal protein L12	Rpl12	100761671	903.17	896.86	1032.73	1063.88	1072.18	1056.08	8323.03	8218.83	9318.14	9280.63	9484.61	9170.98
ribosomal protein L13	Rpl13	100689376	2096.55	2056.95	2362.79	2242.46	2101.16	2266.49	36169.26	36107.22	40150.46	35809.47	33569.78	35514.64
ribosomal protein L13a	Rpl13a	100773637	2201.43	2206.70	2498.09	1868.26	1251.38	1368.47	46029.60	45974.03	52088.15	39193.51	27946.70	30082.34
ribosomal protein L14	Rpl14	100774219	1407.09	1397.63	1555.35	1361.90	1224.66	1354.29	25068.59	26736.36	29141.84	24311.82	21815.44	22769.49
ribosomal protein L15	Rpl15	100767738	1393.90	1344.82	1308.66	1054.94	830.84	884.59	24211.07	23492.57	22671.81	17893.72	14260.04	15146.32
ribosomal protein L18	Rpl18	100774500	989.45	915.76	1027.98	892.17	694.78	829.21	15607.01	15268.25	16955.73	14317.30	11450.05	12914.33
ribosomal protein L18a	Rpl18a	100772334	2272.06	2133.90	2431.41	1892.88	1413.63	1546.21	31855.83	30378.20	34146.21	25382.66	19411.17	20702.93
ribosomal protein L19	Rpl19	100757685	2356.69	2301.00	1728.62	1516.37	1198.13	1366.35	45298.16	44321.48	32993.55	28295.03	22805.92	25747.35
ribosomal protein L21	Rpl21	100758710	1761.95	1839.95	1808.25	1828.74	1737.41	1717.23	27701.91	29446.69	28674.82	28223.18	27154.94	26373.57
ribosomal protein L22	Rpl22	100766349	940.78	860.46	785.78	777.33	787.24	866.49	13273.71	12386.81	11378.76	11086.23	11543.20	12365.68

ribosomal protein L22-like 1	Rpl22l1	100750612	201.09	215.06	215.44	205.89	207.17	219.25	2271.78	2443.14	2581.06	2392.01	2359.77	2531.09
ribosomal protein L23	Rpl23	100756818	1467.19	1501.89	1037.70	1104.75	1074.48	1062.02	18865.44	19447.21	13172.33	13443.47	13491.05	12881.62
ribosomal protein L23a	Rpl23a	100761992	4243.01	4150.97	4277.60	3312.34	2822.55	2785.90	51798.30	50434.82	51367.74	39006.93	33801.62	33253.68
ribosomal protein L24	Rpl24	100757231	1245.62	1324.57	1386.80	1266.28	1197.61	1352.82	19510.28	21009.17	21469.47	18825.49	18105.02	19853.32
ribosomal protein L26	Rpl26	100760077	1476.47	1451.53	1556.75	1622.48	1689.44	1700.00	23405.20	23140.28	24513.83	24917.94	26280.37	26259.54
ribosomal protein L26-like 1	Rpl26l1	103163892	3.82	3.20	2.78	4.33	3.12	3.79	126.84	132.68	118.00	150.66	137.65	139.27
ribosomal protein L27	Rpl27	100769867	2926.92	3002.84	2244.73	2033.49	1691.27	1794.30	35906.46	36691.01	26861.37	23485.51	19919.35	21070.26
ribosomal protein L27a	Rpl27a	100750602	1607.39	1570.51	1373.27	1154.06	1001.74	1060.79	19438.13	18991.52	16516.03	13326.42	11640.49	12271.28
ribosomal protein L28	Rpl28	100774114	754.93	709.78	680.71	301.79	130.44	142.18	4878.52	4593.47	4346.06	1848.48	915.96	910.37
ribosomal protein L29	Rpl29	103158593	456.07	493.38	503.03	429.14	434.32	435.22	6052.77	6433.60	6583.06	5601.06	6009.13	5894.96
ribosomal protein L3	Rpl3	100771906	1213.18	1221.73	1130.57	1074.73	948.00	976.74	45288.29	45733.38	42750.14	40171.64	35873.66	36803.55
ribosomal protein L30	Rpl30	103162454	563.93	518.60	632.44	661.33	557.41	599.63	1691.49	1607.71	1779.91	1722.15	1639.42	1548.75
ribosomal protein L31	Rpl31	100754887	3304.83	2776.19	2668.88	2715.99	2636.15	3076.69	30443.85	28375.19	26660.15	26010.80	25862.24	26714.73
ribosomal protein L32	Rpl32	100770845	1631.59	1650.41	1808.64	1774.40	1713.76	1881.23	23460.65	23994.92	25777.03	24462.48	24313.90	25908.11
ribosomal protein L34	Rpl34	100753386	1569.50	1382.05	1437.67	1411.89	1389.82	1699.11	13273.71	11951.25	12243.25	11372.48	11515.26	13392.88
ribosomal protein L35	Rpl35	100750707	1880.85	2067.81	2953.57	2628.05	2109.60	2196.79	20010.82	22071.52	30765.25	26029.34	21757.48	21812.39
ribosomal protein L35a	Rpl35a	100754849	1180.32	1172.91	1331.77	1391.41	1414.60	1408.85	11093.07	11110.34	12347.59	12303.09	12898.00	12611.50
ribosomal protein L36a-like	Rpl36al	100753090	752.02	738.06	716.36	749.98	717.81	735.64	7732.87	7475.82	7396.63	7579.34	7321.49	7607.28
ribosomal protein L37	Rpl37	100767569	1463.45	1481.46	1571.02	1514.83	1416.69	1466.78	15211.29	15400.93	16006.77	14881.69	14359.40	14496.73
ribosomal protein L37a	Rpl37a	100754588	3677.69	3704.14	3771.54	3804.71	3503.37	3967.99	25332.15	25265.91	24877.76	23777.56	22924.95	25435.17
ribosomal protein L38	Rpl38	100761990	2478.75	2502.56	2803.81	2280.68	2050.11	2255.95	10656.34	10833.08	11485.58	8279.32	7820.36	8067.13
ribosomal protein L3-like	Rpl3l	100754394	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	1.24	0.00	1.03	0.93
ribosomal protein L4	Rpl4	100756048	848.26	880.94	1020.68	1073.95	1004.76	984.58	30473.47	32274.15	37384.33	38858.58	35686.33	34852.90
ribosomal protein L5	Rpl5	100770250	574.14	591.73	597.94	636.50	651.13	617.13	23849.53	25042.64	24400.80	25243.59	26084.76	24378.05
ribosomal protein L6	Rpl6	100761632	2003.85	2021.34	2106.34	2013.93	1921.23	1916.38	42491.66	42741.22	44472.92	41927.40	40774.32	40720.75
ribosomal protein L7	Rpl7	100763698	657.30	604.69	575.88	630.85	642.37	670.18	13956.53	13039.23	12362.49	13258.04	13579.02	14056.50
ribosomal protein L7a	Rpl7a	100772298	1475.84	1422.64	1424.77	1450.13	1278.97	1382.28	26054.47	25621.85	25529.85	25313.13	22572.02	23819.12
ribosomal protein L7-like 1	Rpl7l1	100769012	140.53	147.21	150.47	144.60	139.84	147.31	5554.51	5832.42	5866.38	5576.72	5396.42	5693.07
ribosomal protein L8	Rpl8	100753709	1720.60	1665.55	1764.98	1619.56	1284.25	1454.29	37131.59	35804.35	37801.67	33965.62	27338.13	30688.01
ribosomal protein L9	Rpl9	100758533	1673.63	1703.57	1666.57	1684.91	1816.76	1839.89	28924.77	29363.43	28257.48	27684.28	30390.30	30544.07
ribosomal protein, large, P0	Rplp0	100756201	3458.45	3428.98	3266.73	2807.01	2336.68	2540.03	89040.02	89372.24	85776.03	73951.84	62827.81	67757.94
ribosomal protein, large, P1	Rplp1	100757682	2764.78	2579.10	2075.09	815.84	392.00	489.03	18212.23	17622.63	14008.26	5537.32	2857.60	3243.30
ribosomal protein, large, P2	Rplp2	100753445	2083.77	1951.95	1918.32	1271.84	756.40	987.99	20168.80	18806.68	18089.75	11649.46	7412.57	9314.92
ribophorin I	Rpn1	100762811	182.86	177.27	207.15	217.41	196.15	205.18	11055.85	10974.00	12984.78	13465.49	12227.33	12610.56
ribophorin II	Rpn2	103158732	415.90	422.78	425.53	426.34	434.42	451.91	27176.31	27674.27	27821.50	27554.48	28361.73	29628.09
ribonuclease P/MRP 14kDa subunit	Rpp14	100769100	61.95	59.64	72.15	75.04	73.80	70.94	2703.96	2642.62	3188.44	3233.39	3144.29	3051.70
ribonuclease P/MRP 25kDa subunit	Rpp25	100764297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ribonuclease P/MRP 25kDa subunit-like	Rpp25l	100771203	48.81	44.62	44.88	34.12	19.13	24.25	1027.66	930.59	947.71	704.62	411.92	515.00
ribonuclease P/MRP 30kDa subunit	Rpp30	100764835	60.71	63.78	60.77	64.18	72.60	66.57	2062.91	2203.40	2050.69	2111.55	2407.38	2194.60
ribonuclease P/MRP 38kDa subunit	Rpp38	100753092	27.67	27.14	27.81	28.18	27.88	26.42	897.78	871.11	895.54	893.53	879.74	828.12
ribonuclease P/MRP 40kDa subunit	Rpp40	100760840	62.20	61.16	72.33	68.23	66.22	65.53	1971.00	2008.50	2341.33	2130.09	2119.65	2060.01
regulation of nuclear pre-mRNA domain containing 1A	Rprd1a	100767756	4.75	5.19	4.30	4.79	4.98	4.84	588.64	642.35	542.79	593.37	613.75	611.27

regulation of nuclear pre-mRNA domain containing 1B	Rprd1b	100759004	21.12	21.01	23.49	24.32	29.69	28.77	2239.88	2213.47	2469.27	2534.56	3042.86	2995.62
regulation of nuclear pre-mRNA domain containing 2	Rprd2	100762415	8.67	8.88	9.80	10.37	10.28	10.24	1727.19	1783.40	2007.21	2111.55	2051.34	2083.38
reprimo, TP53 dependent G2 arrest mediator candidate	Rprm	100756380	4.65	6.54	8.74	4.26	3.27	3.18	161.78	193.07	309.28	168.04	96.25	112.16
ribosomal protein S10	Rps10	100756654	1446.06	1443.77	1391.08	1035.89	721.75	811.67	21561.80	21244.33	20367.74	15453.04	11177.85	12824.60
ribosomal protein S11	Rps11	100773922	2570.39	2539.99	2703.90	2674.80	2600.03	2687.23	39285.65	37899.77	40323.11	39274.64	38710.56	40431.01
ribosomal protein S12	Rps12	100753860	2587.47	2592.12	1558.59	1378.71	1377.96	1380.52	23156.07	22988.39	12974.84	10291.21	10810.43	10340.25
ribosomal protein S13	Rps13	100689293	772.69	739.13	818.72	704.92	757.18	813.82	10170.99	9580.40	10119.28	7475.03	7978.71	8425.11
ribosomal protein S14	Rps14	100689292	1211.62	1212.39	1219.04	1128.03	974.43	1103.92	13599.55	13814.26	13665.44	12224.29	10831.13	11841.33
ribosomal protein S15	Rps15	100766987	1502.17	1580.53	1583.43	1317.48	962.13	982.90	11371.82	11645.63	11265.73	8684.95	6517.31	6523.99
ribosomal protein S15a	Rps15a	100751993	2738.11	2726.30	2950.66	3000.58	2861.83	3177.61	27046.43	26929.44	28708.35	27669.21	27336.06	29683.24
ribosomal protein S16	Rps16	100773230	2329.19	2307.49	2614.61	2371.47	2155.46	2380.64	18862.40	18708.78	20744.09	17915.74	16813.35	17953.14
ribosomal protein S17	Rps17	100689053	1625.16	1679.51	1763.99	1719.14	1520.95	1520.40	18601.88	19570.74	19637.39	17701.34	14426.67	14276.14
ribosomal protein S18	Rps18	100752957	2753.82	2558.01	2670.66	2047.11	1430.69	1635.16	23743.96	22910.61	23351.23	17090.59	11629.11	12892.83
ribosomal protein S19	Rps19	100759352	695.86	656.77	622.99	425.54	240.98	275.90	9452.47	9008.51	9016.31	6483.00	4493.91	4937.86
ribosomal protein S19 binding protein 1	Rps19bp1	100770022	55.80	56.12	58.70	52.72	46.96	53.81	1313.24	1329.54	1366.30	1240.04	1099.16	1261.80
ribosomal protein S2	Rps2	100689058	2640.85	2450.99	2772.37	2485.98	1983.84	2334.65	62594.39	59634.57	67449.04	59162.86	49098.72	55781.09
ribosomal protein S20	Rps20	100755991	761.33	762.75	867.52	877.89	841.60	853.65	6402.16	6665.10	7154.42	6518.92	5962.56	5897.77
ribosomal protein S21	Rps21	100755560	2583.49	2541.95	2570.38	1987.80	1881.92	1916.82	16329.33	15628.77	14193.33	9055.80	9294.18	8997.13
ribosomal protein S23	Rps23	100772739	2806.63	2806.98	2860.47	2648.20	2393.44	2801.70	32436.88	32429.70	32597.33	29225.64	26968.64	31182.45
ribosomal protein S24	Rps24	100754112	2051.50	2072.88	2089.05	2167.93	2362.21	2210.43	30261.56	30884.21	31942.75	32237.67	35152.27	32270.41
ribosomal protein S25	Rps25	100759466	2630.72	2704.77	2612.72	2517.45	2686.86	2829.20	31141.87	32048.13	30246.06	28167.55	30900.55	31892.80
ribosomal protein S26	Rps26	100767971	565.24	530.51	499.09	323.61	225.75	262.56	8067.07	7954.39	7425.20	4826.90	3534.48	3951.78
ribosomal protein S27	Rps27	100765425	859.86	853.23	846.02	875.08	950.52	995.88	6102.90	6178.31	5868.86	5789.96	6483.15	6528.67
ribosomal protein S27a	Rps27a	100765052	2891.62	3116.44	3539.67	3522.70	3556.24	3583.91	39811.25	42326.71	47199.30	45020.56	46496.76	46327.84
ribosomal protein S27-like	Rps27l	100751142	440.82	476.69	398.67	398.76	419.22	395.34	4306.59	4672.16	3879.04	3795.46	3943.30	3717.18
ribosomal protein S28	Rps28	100755309	835.22	828.30	589.06	426.45	294.86	371.70	4414.44	4412.29	2812.08	1634.08	1207.83	1345.92
ribosomal protein S3	Rps3	100758037	1481.19	1417.87	1492.94	1477.13	1335.47	1499.87	31868.75	31823.95	33892.82	33243.62	30512.43	32752.70
ribosomal protein S3A	Rps3a	100762337	1313.35	1299.26	1331.61	1434.85	1434.98	1477.32	29985.09	30182.38	30780.15	32398.76	32644.50	32952.71
ribosomal protein S4, X-linked	Rps4x	100689408	2092.94	2076.21	2141.36	2219.21	2261.81	2459.54	50143.26	50360.70	52054.62	52760.99	54007.66	57791.56
ribosomal protein S5	Rps5	103163645	436.94	408.45	378.20	255.83	200.86	213.39	8384.55	7951.64	7555.61	4875.58	3645.22	3955.52
ribosomal protein S6	Rps6	100759489	438.30	377.02	401.54	430.19	423.51	476.54	44.05	34.77	48.44	33.61	35.19	42.06
ribosomal protein S6 kinase, 90kDa, polypeptide 1	Rps6ka1	100770849	5.23	5.42	5.27	4.97	4.21	4.11	398.00	409.94	396.23	370.85	312.57	292.55
ribosomal protein S6 kinase, 90kDa, polypeptide 3	Rps6ka3	100750954	19.14	18.77	22.05	25.11	25.93	24.71	4134.93	4084.71	4804.39	5401.73	5525.79	5262.19
ribosomal protein S6 kinase, 90kDa, polypeptide 5	Rps6ka5	100753249	4.57	4.84	6.73	7.85	8.25	7.88	332.68	355.03	476.96	548.17	559.93	560.80
ribosomal protein S6 kinase, 90kDa, polypeptide 6	Rps6ka6	100756365	0.01	0.01	0.02	0.02	0.00	0.00	4.56	2.75	2.48	1.16	1.03	0.00
ribosomal protein S6 kinase, 70kDa, polypeptide 1	Rps6kb1	100757513	29.37	28.72	14.28	16.06	14.31	13.88	2409.26	2342.49	1171.29	1300.31	1205.76	1150.58
ribosomal protein S6 kinase, 70kDa, polypeptide 2	Rps6kb2	100760227	9.66	10.38	12.46	12.04	9.76	9.94	553.70	609.41	731.59	691.88	569.24	587.91

ribosomal protein S6 kinase, 52kDa, polypeptide 1	Rps6kc1	100767301	9.16	8.77	10.86	10.37	8.32	9.28	994.24	950.72	1176.26	1098.66	902.51	1007.57
ribosomal protein S6 kinase-like 1	Rps6kl1	100758757	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ribosomal protein S7	Rps7	100765366	1567.78	1707.66	1886.38	1740.22	1418.01	1472.85	26418.29	28540.81	30862.13	27489.58	23014.99	23567.70
ribosomal protein S8	Rps8	100755051	1887.84	1864.94	2160.40	1828.70	1427.19	1662.29	36105.46	36380.82	41915.46	34527.70	27530.64	30920.74
ribosomal protein S9	Rps9	100767024	785.45	759.26	646.57	420.08	261.05	287.90	7179.16	6809.68	5730.99	3607.72	2257.31	2502.11
ribosomal protein SA	Rpsa	100689045	4474.62	4248.45	4510.94	3306.33	2248.69	2574.36	61439.89	58214.43	61684.52	46878.31	34694.81	39303.80
repetin	Rptn	100760318	0.03	0.01	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
regulatory associated protein of MTOR, complex 1	Rptor	100761529	23.03	21.79	24.21	21.29	15.29	16.90	4056.70	3855.95	4269.05	3738.68	2692.00	3007.77
RNA pseudouridylate synthase domain containing 1	Rpusd1	100773796	4.30	4.21	6.01	4.82	4.16	5.06	211.91	207.71	299.34	246.85	218.38	255.16
RNA pseudouridylate synthase domain containing 2	Rpusd2	100752640	5.81	5.85	5.52	5.13	4.61	4.89	369.14	376.08	361.45	330.29	300.15	318.72
RNA pseudouridylate synthase domain containing 3	Rpusd3	100774934	10.70	10.53	8.29	6.86	3.71	4.30	407.11	403.53	326.67	265.39	160.42	189.74
RNA pseudouridylate synthase domain containing 4	Rpusd4	100758848	19.41	19.63	20.89	19.51	18.15	21.91	997.27	1006.54	1065.71	992.04	923.21	1102.91
RCD1 required for cell differentiation1 homolog (S. pombe)	Rqcd1	100772865	50.95	50.10	53.88	50.80	47.45	48.68	3067.78	3015.04	3325.07	3155.74	2915.56	3042.35
Ras-related associated with diabetes	Rrad	100760818	9.74	8.67	2.60	1.90	2.44	1.84	417.75	388.89	111.79	86.92	110.74	92.53
Ras-related GTP binding A	Rraga	100761704	93.71	95.51	110.47	105.42	102.91	105.28	3179.43	3251.11	3754.83	3524.28	3414.42	3517.16
Ras-related GTP binding B	Rragb	100764180	4.62	4.73	3.72	3.92	4.80	4.08	434.46	433.73	360.21	392.87	468.85	386.95
Ras-related GTP binding C	Rragc	100750696	68.55	67.98	82.88	80.42	85.02	82.17	3765.04	3705.89	4616.84	4493.13	4676.07	4605.12
Ras-related GTP binding D	Rragd	100772308	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
related RAS viral (r-ras) oncogene homolog	Rras	100766263	32.47	33.05	30.67	30.61	28.74	29.68	821.82	834.51	758.92	747.50	719.32	744.00
related RAS viral (r-ras) oncogene homolog 2	Rras2	100771410	25.33	26.31	23.35	25.91	26.42	26.33	1382.36	1430.20	1252.02	1391.86	1416.90	1411.35
ribosome binding protein 1	Rrbp1	100768883	37.60	37.38	32.26	33.53	28.95	27.42	5865.16	5818.70	5051.57	5169.94	4440.09	4259.29
ras responsive element binding protein 1	Rreb1	100765337	5.14	5.06	4.62	4.71	4.37	4.11	1260.84	1238.96	1132.78	1168.19	1065.00	1028.14
retinal pigment epithelium-derived rhodopsin homolog	Rrh	100761339	0.32	0.54	0.43	0.33	0.77	0.66	9.11	12.81	13.66	12.75	23.80	17.76
ribonucleotide reductase M1	Rrm1	100761591	50.60	53.37	57.54	62.96	69.82	67.50	4627.87	4857.91	5257.75	5693.77	6292.72	6111.81
ribonucleotide reductase M2	Rrm2	100752542	43.52	44.80	44.42	47.53	56.37	55.18	3493.88	3642.75	3660.43	3887.02	4607.76	4463.05
ribonucleotide reductase M2 B (TP53 inducible)	Rrm2b	100768429	2.22	2.25	2.69	2.98	3.02	3.09	113.93	123.53	173.89	193.54	166.63	186.00
RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae)	Rrn3	100751564	77.06	78.75	82.75	84.87	90.35	89.17	4065.05	4195.43	4414.38	4493.13	4771.29	4643.44
ribosomal RNA adenine dimethylase domain containing 1	Rrnad1	100752610	8.37	8.97	9.21	8.05	6.52	7.81	584.09	616.73	628.50	572.51	487.48	549.59
ribosomal RNA processing 1	Rrp1	100768977	76.39	76.18	82.00	80.58	66.30	71.17	3847.83	3852.29	4158.51	4017.98	3350.25	3566.70
ribosomal RNA processing 12 homolog (S. cerevisiae)	Rrp12	100757192	62.71	59.12	39.42	35.14	27.84	31.72	8469.62	8157.52	5522.32	4825.74	3857.39	4287.33
ribosomal RNA processing 15 homolog (S. cerevisiae)	Rrp15	100750619	68.32	74.08	60.86	66.15	59.89	59.03	2281.66	2459.61	2041.99	2192.68	1986.14	1926.35
ribosomal RNA processing 1B	Rrp1b	100751493	27.71	28.33	30.97	30.11	25.89	27.02	3632.12	3819.35	4175.90	4045.79	3495.15	3590.07
ribosomal RNA processing 36 homolog (S. cerevisiae)	Rrp36	100771305	18.71	17.84	18.10	17.41	16.08	15.95	897.02	848.24	862.01	731.28	675.85	670.16

ribosomal RNA processing 8, methyltransferase, homolog (yeast)	Rrp8	100759475	12.55	12.68	10.74	11.74	9.94	11.07	800.55	774.12	676.94	739.39	625.13	694.46
ribosomal RNA processing 9, small subunit (SSU) processome component, homolog (yeast)	Rrp9	100766875	57.65	56.03	51.59	37.39	24.49	26.58	2681.17	2613.34	2430.76	1754.60	1167.46	1267.41
RRS1 ribosome biogenesis regulator homolog (S. cerevisiae)	Rrs1	100764400	60.12	64.56	61.24	49.64	46.47	40.29	1523.64	1633.33	1543.91	1238.89	1158.15	1012.25
retinoschisin 1	Rs1	100754207	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
radical S-adenosyl methionine domain containing 1	Rsad1	100768136	8.60	7.77	3.33	3.38	2.36	2.44	591.68	542.61	238.48	246.85	207.00	193.48
radical S-adenosyl methionine domain containing 2	Rsad2	100753921	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
round spermatid basic protein 1	Rsbn1	100762930	4.05	3.88	5.42	5.56	6.05	5.33	757.26	719.22	1018.51	1045.35	1133.31	990.75
round spermatid basic protein 1-like	Rsbn1l	100759054	4.67	4.93	4.78	5.51	5.12	5.64	373.69	398.04	387.53	439.23	398.47	442.10
regulatory solute carrier protein, family 1, member 1	Rsc1a1	100753864	21.41	20.82	24.66	25.18	25.04	26.60	2717.63	2645.36	3112.67	3199.78	3144.29	3373.22
remodeling and spacing factor 1	Rsf1	100769141	23.22	22.80	21.06	25.87	24.89	22.27	3270.58	3220.92	3008.33	3634.37	3474.45	3133.95
REM2 and RAB-like small GTPase 1	Rsg1	100752253	4.80	4.62	5.79	4.47	3.18	3.84	148.87	147.32	178.86	136.75	99.36	118.70
ribosomal L1 domain containing 1	Rsl1d1	100770494	192.08	196.74	193.65	202.22	196.62	184.01	10349.48	10685.76	10524.20	10948.32	10553.76	9938.34
ribosomal L24 domain containing 1	Rsl24d1	100767126	132.15	127.93	131.37	132.54	127.97	136.00	4507.11	4444.32	4600.69	4643.79	4441.13	4650.92
radial spoke head 1 homolog (Chlamydomonas)	Rsph1	100760788	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
radial spoke head 10 homolog B (Chlamydomonas)	Rsph10 b	100764430	0.07	0.06	0.02	0.04	0.07	0.03	6.08	3.66	1.24	5.79	5.17	2.80
radial spoke 3 homolog (Chlamydomonas)	Rsph3	100762246	4.03	4.27	6.12	6.15	6.34	6.68	228.62	247.97	334.12	362.74	382.94	362.65
radial spoke head 4 homolog A (Chlamydomonas)	Rsph4a	100770858	0.01	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
radial spoke head 6 homolog A (Chlamydomonas)	Rsph6a	100758087	0.00	0.07	0.05	0.04	0.00	0.00	8.35	6.41	6.21	2.32	0.00	0.00
radial spoke head 9 homolog (Chlamydomonas)	Rsph9	100759108	0.00	0.00	0.08	0.00	0.07	0.00	1.52	0.00	1.24	1.16	4.14	0.93
R-spondin 1	Rspo1	100753629	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
R-spondin 2	Rspo2	100770908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
R-spondin 4	Rspo4	100761550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ring finger and SPRY domain containing 1	Rspry1	100759716	10.68	10.22	10.73	10.88	12.96	13.01	1086.14	1047.71	1095.52	1094.02	1306.15	1324.43
arginine/serine-rich coiled-coil 1	Rsrc1	100759360	31.22	33.80	39.99	41.85	41.54	37.31	732.96	794.25	927.84	965.38	942.87	829.05
arginine/serine-rich coiled-coil 2	Rsrc2	100770513	51.58	51.01	46.42	57.51	57.69	49.63	2342.42	2361.70	2140.12	2577.44	2600.92	2260.97
arginine/serine-rich protein 1	Rsrp1	100752867	24.27	23.03	21.35	21.90	27.11	29.32	899.29	845.49	796.18	864.55	1051.55	1086.09
Ras suppressor protein 1	Rsu1	100768150	89.00	87.06	74.21	79.17	84.18	85.48	3742.25	3717.78	3162.35	3257.72	3459.96	3471.36
retbindin	Rtbdn	100756431	0.00	0.00	0.00	0.00	0.00	0.00	3.04	1.83	0.00	1.16	1.03	0.93
RNA 3'-terminal phosphate cyclase	Rtca	100760159	20.27	20.74	21.18	24.58	22.90	19.79	579.53	596.60	577.57	687.24	613.75	567.34
RNA 2',3'-cyclic phosphate and 5'-OH ligase	Rtcb	100753929	96.30	94.75	101.50	107.08	99.06	109.25	4899.79	4820.40	5155.90	5371.59	4991.74	5482.77
rhabdoid tumor deletion region gene 1	Rtdr1	100767963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
regulator of telomere elongation helicase 1	Rtel1	100762036	25.34	25.22	26.94	29.62	25.49	26.61	3785.54	3800.13	3984.61	4348.27	3823.24	3980.76

Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	Rtf1	100773205	17.22	17.13	18.72	20.15	19.21	19.62	2207.98	2201.57	2429.52	2623.79	2454.99	2497.44
replication termination factor 2 domain containing 1	Rtfdc1	100760479	73.64	72.77	72.91	74.55	67.00	73.65	4516.22	4503.80	4549.76	4582.37	4118.21	4484.55
rhotekin	Rtkn	100762847	12.20	11.70	13.85	10.64	7.88	8.84	891.70	846.41	1017.27	752.14	567.17	643.05
rhotekin 2	Rtkn2	100755093	1.79	1.73	2.19	2.16	2.73	2.54	190.64	180.26	222.33	232.94	294.97	275.73
retrotransposon-like 1	Rtl1	100762255	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
reticulon 2	Rtn2	100756065	5.45	5.01	5.00	3.25	3.75	3.42	227.86	218.69	204.94	135.59	145.93	157.02
reticulon 3	Rtn3	100752666	28.94	29.18	27.77	27.52	32.04	32.35	3768.07	3803.79	3640.56	3578.74	4169.96	4226.58
reticulon 4	Rtn4	100764263	81.43	85.10	96.94	102.43	115.43	108.06	7079.67	7429.16	8235.04	8360.45	9401.82	8829.82
reticulon 4 interacting protein 1	Rtn4ip1	100767145	20.52	19.56	17.87	20.43	23.38	23.52	953.22	963.53	852.07	953.79	1104.33	1094.50
reticulon 4 receptor	Rtn4r	100771485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
reticulon 4 receptor-like 1	Rtn4rl1	100772121	1.13	1.00	1.04	0.95	1.52	1.24	97.22	86.01	90.67	82.28	130.41	107.49
receptor (chemosensory) transporter protein 1	Rtp1	100774818	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor (chemosensory) transporter protein 2	Rtp2	100754460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
receptor (chemosensory) transporter protein 3	Rtp3	100765157	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
receptor (chemosensory) transporter protein 4	Rtp4	100755040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rotatin	Rttn	100759486	6.39	6.49	6.29	7.14	8.15	8.64	724.60	750.33	737.80	789.22	906.65	971.12
RUN and FYVE domain containing 1	Rufy1	100766316	4.67	5.30	5.30	5.22	6.08	5.76	347.11	387.06	390.02	385.92	451.25	425.27
RUN and FYVE domain containing 2	Rufy2	100762128	3.25	3.51	3.57	3.93	3.85	3.86	294.70	317.52	309.28	348.83	363.28	344.89
RUN and FYVE domain containing 3	Rufy3	100774613	6.33	6.34	7.12	6.70	7.05	6.87	755.74	779.61	847.10	804.29	838.34	822.51
RUN and FYVE domain containing 4	Rufy4	100768601	0.01	0.01	0.00	0.01	0.00	0.03	1.52	2.75	0.00	1.16	0.00	2.80
RUN domain containing 1	Rundc1	100752621	10.96	10.67	8.55	8.34	7.04	7.96	1004.11	998.30	796.18	776.48	645.83	737.45
RUN domain containing 3A	Rundc3a	100755469	0.72	0.75	0.35	0.15	0.32	0.21	47.85	50.33	16.15	4.64	16.56	11.22
RUN domain containing 3B	Rundc3b	100752332	0.40	0.28	0.25	0.36	0.38	0.40	47.09	32.03	31.05	42.88	43.47	47.67
runt-related transcription factor 1	Runx1	100758283	8.89	8.80	7.65	5.76	5.54	5.02	407.11	420.92	368.90	275.82	230.80	232.73
runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	Runx1t1	100768348	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
runt-related transcription factor 2	Runx2	103158542	3.13	3.39	3.97	4.43	4.70	4.23	192.92	197.65	253.39	253.80	234.94	230.86
runt-related transcription factor 3	Runx3	100758568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUN and SH3 domain containing 1	Rusc1	100754395	7.35	7.32	8.05	6.38	6.03	6.50	420.03	422.75	460.81	360.42	317.74	345.83
RUN and SH3 domain containing 2	Rusc2	100757420	21.10	21.41	20.86	17.06	12.75	14.24	3288.05	3358.17	3295.26	2681.74	1995.45	2246.95
RuvB-like AAA ATPase 1	Ruvbl1	100761458	97.44	91.53	88.68	85.70	78.30	81.56	4583.82	4407.72	4262.84	4045.79	3701.11	3839.62
RuvB-like AAA ATPase 2	Ruvbl2	100770081	46.28	45.24	51.72	40.77	28.43	31.09	2299.88	2225.36	2559.94	1977.12	1436.56	1580.53
RWD domain containing 1	Rwdd1	100772008	115.38	114.14	64.67	65.73	69.79	64.41	2653.07	2630.72	1456.97	1433.58	1549.37	1446.87
RWD domain containing 2A	Rwdd2a	100762277	4.80	5.54	2.85	3.14	3.79	3.64	152.67	177.52	91.91	101.98	117.99	114.96
RWD domain containing 2B	Rwdd2b	100768876	15.94	15.78	18.78	18.54	18.72	20.25	1300.33	1286.54	1537.70	1496.17	1503.84	1639.41
RWD domain containing 3	Rwdd3	100773353	8.69	9.00	7.21	7.77	7.02	7.06	268.12	290.98	231.03	248.01	228.73	221.52
RWD domain containing 4	Rwdd4	100752671	40.60	44.09	44.81	45.87	48.92	49.09	2229.25	2217.13	2592.24	2589.03	2759.27	2673.16

relaxin/insulin-like family peptide receptor 1	Rxfp1	100766211	0.03	0.04	0.06	0.03	0.03	0.04	5.32	4.58	4.97	2.32	2.07	4.67
relaxin/insulin-like family peptide receptor 2	Rxfp2	100759817	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relaxin/insulin-like family peptide receptor 3	Rxfp3	100772158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relaxin/insulin-like family peptide receptor 4	Rxfp4	100764058	0.53	0.64	0.64	0.83	0.65	0.54	47.85	58.56	59.62	83.44	65.20	50.47
retinoid X receptor, alpha	Rxra	100768377	6.28	6.26	7.83	7.01	6.29	6.61	865.87	868.37	1086.83	966.54	850.76	904.76
retinoid X receptor, beta	Rxrb	100759059	28.51	27.73	27.77	20.48	11.95	12.67	2064.43	2005.75	2012.18	1497.32	920.10	997.29
retinoid X receptor, gamma	Rxrg	100759819	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RING1 and YY1 binding protein	Rybp	100758801	21.75	22.04	19.09	19.63	19.43	18.95	2676.62	2714.90	2373.63	2424.46	2372.19	2321.72
receptor-like tyrosine kinase	Ryk	100771288	35.50	35.49	32.31	36.94	37.85	36.32	2500.40	2515.43	2302.83	2627.27	2682.68	2576.88
ryanodine receptor 1 (skeletal)	Ryr1	100766013	0.01	0.01	0.01	0.00	0.00	0.00	6.08	5.49	4.97	2.32	3.10	1.87
ryanodine receptor 2 (cardiac)	Ryr2	100774683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ryanodine receptor 3	Ryr3	100751569	0.77	0.70	0.11	0.12	0.17	0.13	691.94	666.14	460.81	475.16	531.98	545.85
S100 calcium binding protein A1	S100a1	100769478	18.18	18.03	15.59	13.96	13.64	18.31	336.48	342.22	286.92	248.01	248.40	317.79
S100 calcium binding protein A10	S100a10	100759158	405.43	394.21	240.25	245.70	292.91	299.61	5808.20	5709.81	3331.28	3426.93	4240.34	4152.74
S100 calcium binding protein A11	S100a11	100758869	359.84	350.04	242.91	264.79	314.66	324.84	4434.19	4303.40	2923.87	3094.32	3796.33	3863.92
S100 calcium binding protein A13	S100a13	100769763	43.21	44.78	26.67	29.44	27.03	28.10	799.79	774.12	500.56	527.31	524.74	536.50
S100 calcium binding protein A14	S100a14	100770053	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S100 calcium binding protein A16	S100a16	100753026	0.15	0.32	0.10	0.05	0.12	0.04	3.80	9.15	3.73	1.16	3.10	1.87
S100 calcium binding protein A2	S100a2	100753326	0.00	0.00	0.00	0.00	0.00	0.20	0.76	3.66	2.48	0.00	0.00	0.93
S100 calcium binding protein A3	S100a3	100770814	3.94	3.89	1.43	1.78	2.24	1.69	72.92	75.03	28.57	28.97	40.36	27.11
S100 calcium binding protein A4	S100a4	100770532	9.06	9.12	4.07	3.48	4.09	5.53	125.32	126.27	64.59	52.15	64.17	80.38
S100 calcium binding protein A5	S100a5	100771097	3.01	3.22	1.33	1.43	3.57	2.23	34.94	39.35	16.15	20.86	37.26	28.97
S100 calcium binding protein A6	S100a6	100771384	628.89	700.65	536.72	543.67	636.21	633.98	9501.08	10489.03	7984.13	7863.27	9390.43	9338.28
S100 calcium binding protein A8	S100a8	100772297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S100 calcium binding protein A9	S100a9	100772014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S100 calcium binding protein B	S100b	100689379	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	1.03	1.87
S100 calcium binding protein G	S100g	100758675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S100P binding protein	S100pbp	100750966	9.07	10.03	9.39	11.37	11.50	12.21	932.71	1025.75	978.76	1176.30	1193.34	1257.13
S100 calcium binding protein Z	S100z	100757577	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sphingosine-1-phosphate receptor 1	S1pr1	100689198	0.15	0.16	0.03	0.05	0.00	0.00	11.39	11.90	2.48	3.48	0.00	0.00
sphingosine-1-phosphate receptor 2	S1pr2	100689183	27.35	27.02	33.66	33.73	32.36	34.68	2030.25	2020.39	2504.05	2463.86	2340.10	2542.30
sphingosine-1-phosphate receptor 3	S1pr3	100689182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sphingosine-1-phosphate receptor 4	S1pr4	100770166	0.16	0.00	0.04	0.04	0.07	0.03	6.08	1.83	1.24	1.16	2.07	0.93
sphingosine-1-phosphate receptor 5	S1pr5	100689184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SAC3 domain containing 1	Sac3d1	100768390	14.53	14.26	12.78	11.75	9.54	8.93	315.21	305.62	274.50	227.15	188.37	171.98
SAC1 suppressor of actin mutations 1-like (yeast)	Sacm1l	100763030	13.16	12.69	14.09	15.10	16.95	16.88	1170.45	1141.05	1263.20	1332.76	1491.42	1476.78
sacsin molecular chaperone	Sacs	100765225	9.32	8.87	8.95	11.92	13.00	11.91	3847.07	3700.40	3728.74	4935.84	5286.71	4932.25
SUMO1 activating enzyme subunit 1	Sae1	100767400	80.15	80.44	83.73	78.68	76.37	79.20	4114.42	4157.00	4358.48	3987.84	3846.01	3977.95
scaffold attachment factor B	Safb	100771098	39.33	37.24	33.78	30.43	25.81	26.38	3388.30	3274.91	2961.14	2658.56	2275.93	2303.96
scaffold attachment factor B2	Safb2	100759135	21.79	20.61	14.95	11.36	8.69	9.38	2050.00	1975.56	1473.11	1132.26	881.81	938.41
S-antigen; retina and pineal gland (arrestin)	Sag	100770952	0.02	0.06	0.00	0.04	0.00	0.00	1.52	1.83	0.00	1.16	3.10	0.93
sarcoma antigen 1	Sage1	100768803	2.80	2.86	2.07	2.45	3.14	2.86	302.30	318.43	224.82	274.66	331.20	297.22
spalt-like transcription factor 1	Sall1	100757204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spalt-like transcription factor 2	Sall2	100774023	0.01	0.00	0.00	0.00	0.00	0.01	0.76	0.00	0.00	0.00	0.00	0.93
spalt-like transcription factor 3	Sall3	100765427	0.04	0.04	0.05	0.00	0.02	0.03	5.32	6.41	4.97	3.48	3.10	2.80
sterile alpha motif domain containing 1	Samd1	100760482	16.87	14.82	17.46	16.39	13.60	15.35	653.96	571.90	679.42	623.50	515.42	579.50
sterile alpha motif domain containing 10	Samd10	100764555	0.10	0.07	0.09	0.02	0.04	0.15	6.84	4.58	9.94	3.48	4.14	5.61
sterile alpha motif domain containing 11	Samd11	100771844	0.21	0.24	0.37	0.38	0.42	0.15	22.03	22.88	28.57	24.34	30.01	13.09
sterile alpha motif domain containing 12	Samd12	100753622	2.31	2.32	2.71	2.86	3.08	2.89	200.52	205.88	247.18	248.01	285.66	275.73
sterile alpha motif domain containing 14	Samd14	100759232	0.03	0.10	0.00	0.00	0.00	0.00	3.80	8.24	0.00	1.16	1.03	0.00
sterile alpha motif domain containing 15	Samd15	100763864	0.56	0.40	0.44	0.63	0.73	0.62	39.50	32.03	29.81	46.36	52.78	43.93
sterile alpha motif domain containing 3	Samd3	100766942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sterile alpha motif domain containing 4A	Samd4a	100750960	8.16	7.51	6.30	6.42	6.05	6.15	1560.09	1451.24	1214.76	1244.68	1150.90	1185.16
sterile alpha motif domain containing 4B	Samd4b	100760986	33.71	32.78	30.28	23.46	19.10	22.09	3807.57	3720.53	3474.12	2692.17	2175.54	2502.11
sterile alpha motif domain containing 7	Samd7	100767182	0.00	0.03	0.00	0.00	0.03	0.00	0.76	1.83	1.24	3.48	2.07	3.74
sterile alpha motif domain containing 8	Samd8	100763843	19.17	19.03	21.21	22.60	27.71	28.34	1890.49	1846.54	2095.40	2247.15	2683.72	2808.68
sterile alpha motif domain containing 9	Samd9	100759572	5.09	5.07	3.93	4.64	5.33	4.57	805.87	804.31	618.56	735.91	831.09	725.30
sterile alpha motif domain containing 9-like	Samd9l	100759866	4.17	4.04	3.30	4.17	3.73	3.36	543.83	549.94	438.46	567.87	485.41	461.73
SAM domain and HD domain 1	Samhd1	100763736	27.70	28.27	25.04	28.04	35.55	34.25	3174.11	3317.00	2971.07	3246.13	4102.69	3933.09
SAMM50 sorting and assembly machinery component	Samm50	100769261	178.95	164.87	173.94	156.45	141.72	154.33	4203.29	3995.04	4188.32	3903.24	3783.91	4026.56
SAM domain, SH3 domain and nuclear localization signals 1	Samsn1	100766287	0.05	0.06	0.00	0.00	0.00	0.00	3.04	7.32	0.00	0.00	0.00	0.00
Sin3A-associated protein, 130kDa	Sap130	100755025	7.61	7.73	6.90	7.15	6.90	7.06	1061.08	1083.40	967.59	1011.74	943.91	982.34
Sin3A-associated protein, 18kDa	Sap18	100760388	45.83	46.22	46.91	47.60	52.54	49.99	3673.13	3704.97	3777.19	3803.58	4158.57	4030.30
Sin3A-associated protein, 25kDa	Sap25	100755701	3.86	3.05	2.57	2.17	1.10	1.63	142.03	107.97	99.37	76.49	47.61	55.15
Sin3A-associated protein, 30kDa	Sap30	100763782	15.71	15.23	17.34	16.81	19.16	16.55	485.35	471.24	534.10	514.56	576.49	501.92
SAP30 binding protein	Sap30bp	100753135	22.00	20.41	22.58	20.99	16.58	17.07	1317.80	1224.31	1370.02	1229.61	984.27	1029.07

SAP30-like	Sap30l	100768241	18.92	15.50	20.16	16.15	16.31	17.31	293.94	247.06	310.52	259.60	259.78	276.66
suppressor APC domain containing 1	Sapcd1	100770563	0.46	0.43	0.43	0.20	0.54	0.45	13.67	17.39	14.91	6.95	15.52	13.09
suppressor APC domain containing 2	Sapcd2	100772508	8.54	7.82	8.50	6.28	4.47	5.14	478.51	459.35	452.12	316.39	237.01	247.69
secretion associated, Ras related GTPase 1A	Sar1a	100763187	59.51	60.42	57.24	57.84	63.40	62.12	4591.41	4707.85	4472.75	4427.07	4788.88	4736.91
secretion associated, Ras related GTPase 1B	Sar1b	100758826	21.22	21.67	21.57	23.12	25.92	24.06	696.50	714.64	724.14	745.19	842.48	787.93
sarcosine dehydrogenase	Sardh	100761121	0.09	0.10	0.04	0.04	0.02	0.04	9.11	12.81	4.97	3.48	2.07	3.74
sterile alpha and TIR motif containing 1	Sarm1	100758125	0.35	0.30	0.23	0.10	0.14	0.08	53.17	46.67	34.78	16.22	21.73	13.09
SAP domain containing ribonucleoprotein	Sarnp	100771889	74.82	67.89	71.02	79.75	76.98	76.62	1942.90	1816.34	1897.91	2076.78	2020.29	1998.32
seryl-tRNA synthetase	Sars	100689195	249.46	251.66	303.97	287.71	219.48	230.12	13345.86	13519.62	16311.08	15180.69	11636.35	12206.79
seryl-tRNA synthetase 2, mitochondrial	Sars2	100769771	5.08	5.12	4.51	3.52	2.56	2.50	401.04	385.23	332.88	274.66	213.21	215.91
squamous cell carcinoma antigen recognized by T cells	Sart1	100769602	99.07	94.02	99.62	91.83	71.76	78.61	6635.33	6429.94	6819.06	6161.98	4859.26	5198.63
SAM and SH3 domain containing 3	Sash3	100774267	0.06	0.08	0.03	0.00	0.00	0.00	2.28	2.75	2.48	2.32	0.00	0.00
spindle assembly 6 homolog (C. elegans)	Sass6	100772023	4.19	4.61	4.79	6.07	5.76	5.70	391.92	428.24	448.39	569.03	548.54	514.07
spermidine/spermine N1-acetyltransferase 1	Sat1	100689427	87.33	83.90	76.30	79.20	96.10	102.11	2238.36	2365.36	2194.77	2248.30	2605.06	2776.90
spermidine/spermine N1-acetyltransferase family member 2	Sat2	100757665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATB homeobox 1	Satb1	100773794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATB homeobox 2	Satb2	100773312	3.17	3.16	2.64	2.92	2.50	2.37	296.22	296.47	258.35	276.98	238.05	234.60
spermidine/spermine N1-acetyl transferase-like 1	Satl1	100756097	0.00	0.03	0.02	0.08	0.03	0.04	2.28	9.15	3.73	6.95	13.45	10.28
salvador family WW domain containing protein 1	Sav1	100766170	52.38	50.25	45.66	49.24	48.98	49.24	1960.37	1896.86	1732.71	1847.32	1822.61	1845.97
SAYSVFN motif domain containing 1	Saysd1	100764395	0.04	0.00	0.06	0.00	0.00	0.05	0.76	0.00	1.24	0.00	0.00	0.93
Shwachman-Bodian-Diamond syndrome	Sbds	100752195	38.35	39.42	39.54	41.26	49.72	44.57	1140.07	1211.50	1177.50	1236.57	1495.56	1387.98
SET binding factor 1	Sbf1	100755492	16.62	15.43	17.06	14.26	10.54	11.90	3166.52	2997.65	3361.09	2729.26	2059.62	2295.55
SET binding factor 2	Sbf2	100764737	26.91	26.51	28.20	32.37	34.03	35.02	2652.31	2677.39	2762.40	3173.12	3254.00	3274.15
SH3 domain binding kinase 1	Sbk1	100764792	7.93	7.79	7.18	6.84	5.26	6.28	798.28	782.35	731.59	690.72	528.88	636.51
SH3 domain binding kinase family, member 2	Sbk2	100768070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3 domain binding kinase family, member 3	Sbk3	100768358	0.08	0.10	0.20	0.00	0.00	0.00	3.04	1.83	7.45	1.16	0.00	0.00
strawberry notch homolog 1 (Drosophila)	Sbno1	100774701	19.05	18.73	17.51	20.01	20.09	19.99	4952.20	4916.48	4595.72	5226.73	5195.63	5222.00
strawberry notch homolog 2 (Drosophila)	Sbno2	100765525	33.03	31.00	23.06	18.36	13.25	14.84	5250.69	4998.83	3661.67	2912.37	2138.28	2332.94
suprabasin	Sbsn	100768152	6.56	6.68	4.32	4.54	3.17	3.00	360.78	363.27	238.48	259.60	164.56	151.42
somatomedin B and thrombospondin, type 1 domain containing	Sbspon	100764876	0.00	0.17	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
sterol-C5-desaturase	Sc5d	100752960	12.29	13.16	14.35	15.41	18.18	18.33	1660.35	1763.27	1943.87	2084.90	2419.80	2475.01
SR-related CTD-associated factor 1	Scaf1	100767426	24.93	24.56	24.26	12.81	7.13	8.56	2403.18	2389.15	2358.72	1277.13	747.26	882.33

SR-related CTD-associated factor 11	Scaf11	100754449	31.80	31.26	33.45	39.85	41.14	37.14	6891.30	6801.44	7310.92	8660.61	8851.20	8013.86
SR-related CTD-associated factor 4	Scaf4	100765380	25.23	24.17	13.93	13.24	12.98	12.91	3014.61	2977.52	1711.60	1651.46	1600.09	1574.92
SR-related CTD-associated factor 8	Scaf8	100774924	26.21	27.20	21.83	22.47	21.54	20.85	3591.86	3748.89	2994.67	3097.79	2929.01	2856.35
suppressor of cancer cell invasion	Scai	100751763	1.39	1.20	1.18	1.01	1.63	1.46	132.16	129.93	124.21	104.30	148.00	143.94
secretory carrier membrane protein 1	Scamp1	100760382	20.96	21.73	20.85	21.70	24.15	25.45	773.21	839.09	799.90	843.69	921.14	947.76
secretory carrier membrane protein 2	Scamp2	100756209	74.15	70.34	100.54	95.19	95.23	99.58	4645.34	4447.06	6345.82	5919.76	5917.02	6198.73
secretory carrier membrane protein 3	Scamp3	100756052	40.80	37.74	37.11	34.13	31.08	31.57	1685.42	1557.39	1517.83	1401.13	1272.00	1296.39
secretory carrier membrane protein 4	Scamp4	100758561	25.45	23.09	29.09	26.74	22.89	24.72	1433.25	1308.50	1645.77	1504.28	1270.96	1385.18
secretory carrier membrane protein 5	Scamp5	100766634	10.64	10.26	10.95	10.32	9.65	10.40	1078.55	1058.69	1122.85	1034.92	989.45	1069.26
SCAN domain containing 1	Scand1	103158794	2.49	3.03	3.72	0.64	0.52	0.50	10.63	8.24	12.42	6.95	4.14	2.80
SREBF chaperone	Scap	100689048	23.05	21.82	23.03	19.47	17.48	19.46	2815.61	2674.64	2849.35	2386.22	2132.07	2367.52
S-phase cyclin A-associated protein in the ER	Scaper	100764741	9.13	8.69	8.53	9.74	11.47	10.30	1323.88	1294.77	1271.90	1433.58	1652.87	1475.84
scavenger receptor class A, member 3	Scara3	100760010	5.20	5.19	7.72	7.78	7.01	6.95	496.74	507.84	745.25	749.82	678.95	661.75
scavenger receptor class A, member 5 (putative)	Scara5	100772294	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
scavenger receptor class B, member 1	Scarb1	100736552	47.88	45.85	44.14	42.23	37.25	40.21	3060.18	2987.58	2829.47	2583.23	2120.69	2317.98
scavenger receptor class B, member 2	Scarb2	100771629	25.68	25.15	25.54	26.39	28.87	29.17	1247.16	1250.85	1299.22	1332.76	1429.32	1448.74
scavenger receptor class F, member 1	Scarf1	100767435	0.41	0.39	0.49	0.55	0.38	0.54	43.29	43.92	64.59	63.74	43.47	59.82
scavenger receptor class F, member 2	Scarf2	100772350	3.21	3.28	2.84	1.59	0.80	0.81	292.42	301.96	296.86	191.22	101.43	93.47
saccharopine dehydrogenase (putative)	Sccpdh	100768510	22.23	22.15	35.70	38.23	41.72	39.78	1007.15	1004.71	1642.04	1733.74	1885.75	1814.19
stearoyl-CoA desaturase 5	Scd5	100768175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sciellin	Scel	100763305	0.08	0.05	0.02	0.00	0.02	0.03	6.84	6.41	1.24	0.00	1.03	1.87
sec1 family domain containing 1	Scfd1	100763574	20.23	19.62	19.97	24.20	24.77	24.56	1363.37	1363.40	1368.78	1608.58	1680.82	1618.85
sec1 family domain containing 2	Scfd2	100755789	22.73	22.93	23.38	22.93	28.63	27.08	601.56	630.46	663.27	604.96	706.90	707.54
secretogranin II	Scg2	100763908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretogranin III	Scg3	100763721	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretogranin V (7B2 protein)	Scg5	100758036	0.16	0.04	0.00	0.05	0.04	0.08	4.56	1.83	0.00	1.16	3.10	1.87
secretoglobin, family 1A, member 1 (uteroglobin)	Scgb1a 1	100754147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
secretoglobin, family 1C, member 1	Scgb1c 1	100770790	0.23	0.05	0.06	0.12	0.05	0.14	4.56	0.92	2.48	1.16	5.17	4.67
secretoglobin, family 1D, member 4	Scgb1d 4	100757048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretoglobin, family 3A, member 1	Scgb3a 1	100766899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretoglobin, family 3A, member 2	Scgb3a 2	100754330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretagogin, EF-hand calcium binding protein	Scgn	100757020	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.00

SLP adaptor and CSK interacting membrane protein	Scimp	100754075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
scinderin	Scin	100771193	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
sodium channel and clathrin linker 1	Sclt1	100773720	8.55	8.51	10.92	15.02	15.31	13.79	386.61	388.89	500.56	677.97	669.64	608.47
selenocysteine lyase	Scly	100774221	6.10	6.10	5.45	5.00	4.71	4.10	353.95	381.57	392.50	337.25	303.25	269.18
sex comb on midleg homolog 1 (Drosophila)	Scmh1	100754510	4.94	4.35	5.88	5.30	4.87	5.71	458.00	409.02	562.67	531.94	503.00	570.15
sex comb on midleg-like 1 (Drosophila)	Scml1	103160845	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
sex comb on midleg-like 2 (Drosophila)	Scml2	100751276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
sex comb on midleg-like 4 (Drosophila)	Scml4	100769164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium channel, voltage-gated, type X, alpha subunit	Scn10a	100755389	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sodium channel, voltage-gated, type XI, alpha subunit	Scn11a	100755682	0.02	0.01	0.02	0.00	0.00	0.01	2.28	2.75	3.73	0.00	1.03	2.80
sodium channel, voltage-gated, type I, alpha subunit	Scn1a	100752032	0.59	0.46	0.42	0.57	0.76	0.64	111.65	78.69	78.25	118.21	146.97	109.36
sodium channel, voltage-gated, type I, beta subunit	Scn1b	100758608	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium channel, voltage-gated, type II, beta subunit	Scn2b	100767440	0.06	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
sodium channel, voltage-gated, type III, alpha subunit	Scn3a	100767559	5.10	5.12	8.01	8.67	6.58	6.03	1083.86	1073.33	1695.45	1868.18	1397.23	1298.26
sodium channel, voltage-gated, type III, beta subunit	Scn3b	100761097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sodium channel, voltage-gated, type IV, alpha subunit	Scn4a	100769963	0.14	0.15	0.04	0.06	0.06	0.06	25.82	26.54	9.94	10.43	10.35	14.95
sodium channel, voltage-gated, type IV, beta subunit	Scn4b	100767153	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
sodium channel, voltage-gated, type V, alpha subunit	Scn5a	100751166	0.04	0.04	0.00	0.01	0.01	0.01	8.35	7.32	2.48	1.16	2.07	2.80
sodium channel, voltage-gated, type VII, alpha subunit	Scn7a	100751078	0.04	0.05	0.04	0.03	0.05	0.06	3.80	4.58	4.97	5.79	7.24	8.41
sodium channel, voltage gated, type VIII, alpha subunit	Scn8a	100764200	2.12	2.12	1.59	1.82	2.22	2.22	567.38	549.02	435.97	489.06	560.96	588.84
sodium channel, voltage-gated, type IX, alpha subunit	Scn9a	100751370	0.18	0.14	0.17	0.25	0.20	0.22	25.82	16.47	24.84	38.24	27.94	27.11
sodium channel modifier 1	Scnm1	100769370	53.96	55.54	54.33	52.45	49.11	52.88	1219.82	1247.19	1233.39	1156.60	1092.95	1138.43
sodium channel, non-voltage-gated 1 alpha subunit	Scnn1a	100765305	1.47	1.28	0.99	0.77	0.86	0.91	159.50	139.09	109.30	83.44	87.97	92.53
sodium channel, non-voltage-gated 1, beta subunit	Scnn1b	100754564	0.13	0.23	0.10	0.05	0.04	0.00	8.35	13.73	4.97	2.32	2.07	0.00
sodium channel, non-voltage-gated 1, gamma subunit	Scnn1g	100764998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
short coiled-coil protein	Scoc	100774622	36.24	37.59	37.22	41.05	46.32	45.82	2063.67	2152.16	2141.36	2334.06	2614.38	2608.66
sterol carrier protein 2	Scp2	100757558	46.67	47.87	48.18	52.00	53.76	55.99	3398.18	3489.94	3517.59	3780.40	3932.95	4127.50
SCP2 sterol-binding domain containing 1	Scp2d1	100765198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
serine carboxypeptidase 1	Scpep1	100760556	76.67	77.55	48.14	45.46	41.21	45.45	4284.56	4318.96	2675.46	2506.74	2269.72	2488.09
stimulator of chondrogenesis 1	Scrg1	100761463	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

scribbled planar cell polarity protein	Scrib	100758586	18.70	17.90	19.36	14.49	10.59	11.98	3073.86	2946.41	3228.18	2444.16	1772.93	1991.78
secernin 1	Scrn1	100758201	0.02	0.00	0.04	0.04	0.03	0.06	1.52	0.00	1.24	1.16	1.03	2.80
secernin 2	Scrn2	100753908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secernin 3	Scrn3	100766561	10.53	10.59	9.42	11.28	12.52	11.64	961.58	969.94	866.98	1025.64	1134.34	1059.92
scratch family zinc finger 2	Scrt2	100761306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretin	Sct	100750800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secretin receptor	Sctr	100758738	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	2.07	0.00
signal peptide, CUB domain, EGF-like 1	Scube1	100769413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	1.03	0.93
signal peptide, CUB domain, EGF-like 2	Scube2	100763075	0.01	0.05	0.05	0.01	0.01	0.00	1.52	3.66	4.97	1.16	1.03	1.87
signal peptide, CUB domain, EGF-like 3	Scube3	100758001	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.92	2.48	0.00	0.00	0.00
scleraxis homolog B (mouse)	Scxb	100763601	0.02	0.04	0.02	0.04	0.05	0.01	2.28	2.75	1.24	3.48	4.14	3.74
SCY1-like 1 (S. cerevisiae)	Scyl1	100770964	40.13	38.13	41.55	36.55	25.56	28.09	2950.81	2808.24	3064.23	2634.22	1844.35	2074.03
SCY1-like 3 (S. cerevisiae)	Scyl3	100762452	7.14	7.06	7.72	7.65	8.72	8.48	812.71	818.04	911.69	923.66	1002.90	972.99
SDA1 domain containing 1	Sdad1	100769914	47.77	48.40	39.53	40.67	39.34	40.33	3418.69	3524.71	2854.32	2944.82	2868.98	2900.28
syndecan 1	Sdc1	100689057	87.45	91.35	92.49	76.48	58.62	70.15	2497.36	2571.24	2639.43	2220.49	1731.53	2050.67
syndecan 2	Sdc2	100761785	2.94	2.76	6.46	7.01	1.36	1.43	119.25	113.46	264.56	282.78	54.85	50.47
syndecan 3	Sdc3	100762010	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
syndecan 4	Sdc4	100760006	125.99	121.94	134.57	131.20	136.75	154.26	8184.79	7926.02	8787.76	8529.65	8983.68	10195.38
syndecan binding protein (syntenin)	Sdcbp	100754014	35.23	36.56	30.86	33.82	37.14	38.30	2041.64	2144.84	1842.01	1981.75	2171.40	2209.56
syndecan binding protein (syntenin) 2	Sdcbp2	100763188	0.96	0.79	1.02	1.41	1.14	1.11	41.02	33.86	48.44	64.90	52.78	54.21
serologically defined colon cancer antigen 3	Sdccag 3	100759543	31.75	32.20	39.08	41.44	39.15	39.76	1502.37	1528.11	1846.98	1966.69	1916.79	1883.36
SDE2 telomere maintenance homolog (S. pombe)	Sde2	100752836	21.87	22.40	24.73	26.28	24.56	26.38	1541.86	1580.26	1779.91	1890.20	1768.79	1900.18
stromal cell-derived factor 2	Sdf2	100760942	72.38	64.86	69.96	70.81	76.33	81.98	884.86	832.68	835.92	844.85	855.93	971.12
stromal cell-derived factor 2-like 1	Sdf2l1	100775047	28.45	31.14	30.03	18.57	18.76	17.17	688.14	748.50	734.07	460.09	487.48	448.64
stromal cell derived factor 4	Sdf4	103159168	232.79	230.83	236.76	249.54	232.74	243.39	10343.41	10365.50	10613.63	10910.07	10177.02	10640.28
succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	Sdha	100750732	181.54	175.97	190.44	192.18	181.52	196.27	14271.74	14070.47	15226.74	15183.01	14376.99	15378.12
succinate dehydrogenase complex assembly factor 2	Sdhaf2	100772110	37.10	36.48	40.70	42.43	47.99	48.54	3297.92	3327.06	3703.90	3820.96	4165.82	4269.57
succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	Sdhb	100771246	83.77	81.40	90.73	91.75	74.34	83.72	2236.08	2229.94	2464.30	2492.84	2061.69	2260.97
succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa	Sdhc	100689402	176.63	178.94	172.28	170.44	155.79	171.67	5110.94	5026.28	4788.24	4604.39	4364.54	4885.52
succinate dehydrogenase complex, subunit D, integral membrane protein	Sdhd	100774657	225.98	232.93	240.52	237.13	231.67	227.98	7457.16	7645.11	7900.91	7648.87	7462.25	7390.43
sidekick cell adhesion molecule 1	Sdk1	100768773	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sidekick cell adhesion molecule 2	Sdk2	100751793	2.04	2.16	0.00	0.00	0.00	0.00	461.80	497.78	0.00	0.00	0.00	0.00
serum deprivation response	Sdpr	100772097	0.02	0.03	0.06	0.22	0.24	0.20	1.52	2.75	6.21	17.38	20.70	16.82
short chain dehydrogenase/reductase family 16C, member 5	Sdr16c5	100760372	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
short chain dehydrogenase/reductase family 39U, member 1	Sdr39u1	100767848	1.11	1.72	1.85	1.97	0.96	1.19	199.76	190.33	248.42	250.33	223.56	217.78

short chain dehydrogenase/reductase family 42E, member 1	Sdr42e1	100752182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
short chain dehydrogenase/reductase family 9C, member 7	Sdr9c7	100761860	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine dehydratase	Sds	100769224	22.00	20.24	27.73	28.46	22.61	23.02	1702.13	1564.71	2171.17	2259.89	1820.54	1845.04
serine dehydratase-like	Sdsl	100768948	6.62	6.70	9.04	7.05	3.96	5.18	248.37	263.53	353.99	282.78	168.70	200.02
SEBOX homeobox	Sebox	100758410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEC11 homolog A (S. cerevisiae)	Sec11a	100752256	129.63	120.70	123.24	127.73	91.68	93.25	3748.33	3607.98	3621.93	3655.23	2648.53	2643.25
SEC11 homolog C (S. cerevisiae)	Sec11c	100769695	5.01	4.83	5.19	4.60	4.69	4.59	91.90	86.93	86.95	75.33	87.97	81.32
SEC13 homolog (S. cerevisiae)	Sec13	100759386	101.93	98.12	83.53	79.52	79.47	84.01	3783.26	3677.52	3172.29	2928.59	2952.82	3079.74
SEC14-like 1 (S. cerevisiae)	Sec14l1	100770988	12.55	11.50	12.69	11.78	11.82	12.46	1889.73	1772.42	1936.41	1739.54	1752.23	1839.43
SEC14-like 2 (S. cerevisiae)	Sec14l2	100755200	0.13	0.17	0.14	0.15	0.24	0.15	15.19	15.56	9.94	13.91	19.66	13.09
SEC14-like 3 (S. cerevisiae)	Sec14l3	100755784	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
SEC14-like 5 (S. cerevisiae)	Sec14l5	100773440	0.04	0.01	0.02	0.00	0.00	0.00	3.80	0.92	1.24	0.00	0.00	0.00
SEC16 homolog A (S. cerevisiae)	Sec16a	100760133	11.72	12.04	11.08	11.13	10.87	11.09	2966.00	3102.88	2867.98	2861.37	2797.57	2850.74
SEC16 homolog B (S. cerevisiae)	Sec16b	100752724	1.92	1.93	0.99	1.01	0.80	0.90	264.32	263.53	135.39	143.71	122.13	119.64
SEC22 vesicle trafficking protein homolog A (S. cerevisiae)	Sec22a	100758697	17.50	17.25	18.37	20.06	19.42	21.20	808.91	792.42	868.22	902.80	892.16	955.23
SEC22 vesicle trafficking protein homolog B (S. cerevisiae)	Sec22b	100689313	78.50	70.57	85.34	82.68	81.13	88.11	2273.30	2153.99	2613.35	2487.04	2411.52	2545.11
SEC22 vesicle trafficking protein homolog C (S. cerevisiae)	Sec22c	100772147	8.00	7.90	7.87	7.30	7.71	8.30	1257.04	1240.79	1243.33	1139.22	1192.30	1301.99
Sec23 homolog A (S. cerevisiae)	Sec23a	100755854	9.63	9.90	9.92	10.30	12.22	12.06	1048.92	1076.99	1066.95	1105.61	1328.92	1290.78
Sec23 homolog B (S. cerevisiae)	Sec23b	100765486	35.94	34.44	34.88	39.15	42.92	41.91	3045.75	2953.73	3026.97	3322.62	3631.77	3514.36
SEC23 interacting protein	Sec23ip	100753157	20.04	19.64	19.57	20.30	22.55	21.23	2691.81	2677.39	2622.05	2697.97	3064.59	2874.11
SEC24 family member A	Sec24a	100766669	6.32	5.80	5.54	6.88	6.65	6.75	1161.34	1077.91	1032.17	1273.65	1196.44	1247.78
SEC24 family member B	Sec24b	100767043	17.07	16.30	14.95	16.23	16.58	16.85	2384.95	2282.09	2109.06	2247.15	2294.56	2331.07
SEC24 family member C	Sec24c	100757844	45.63	42.42	42.38	41.37	44.00	45.58	5843.89	5417.91	5422.95	5269.61	5612.73	5825.80
SEC24 family member D	Sec24d	100774358	14.85	14.81	13.10	14.00	14.35	14.36	1519.84	1529.02	1391.14	1446.33	1477.96	1445.00
SEC31 homolog A (S. cerevisiae)	Sec31a	100762780	35.05	34.55	36.17	37.42	37.67	37.25	4772.18	4766.41	5035.42	5100.41	5099.38	5021.05
SEC31 homolog B (S. cerevisiae)	Sec31b	100774608	0.34	0.36	0.38	0.49	0.35	0.35	55.45	54.90	50.93	67.22	55.89	56.08
Sec61 alpha 1 subunit (S. cerevisiae)	Sec61a 1	100767375	51.54	49.91	47.89	45.42	34.72	39.78	4836.75	4664.84	4483.93	4240.49	3246.75	3727.46
Sec61 alpha 2 subunit (S. cerevisiae)	Sec61a 2	100771837	9.41	9.48	8.32	9.62	11.76	12.23	897.02	923.27	862.01	981.61	1171.60	1220.68
Sec61 beta subunit	Sec61b	100768703	71.55	70.77	65.42	56.97	56.94	50.75	848.41	842.75	761.40	642.04	654.11	571.08

Sec61 gamma subunit	Sec61g	100772250	302.36	305.69	274.74	261.15	283.10	302.28	2183.68	2200.66	1906.60	1794.01	1993.38	2044.12
SEC62 homolog (S. cerevisiae)	Sec62	100769200	41.67	40.66	38.65	47.12	45.05	41.39	2755.61	2712.16	2589.75	3114.02	2945.57	2722.69
SEC63 homolog (S. cerevisiae)	Sec63	100775020	34.19	32.93	28.79	32.79	34.18	32.08	3660.22	3596.08	3176.02	3563.68	3678.34	3454.54
SECIS binding protein 2	Secisbp 2	100759811	8.54	9.30	7.00	6.45	6.64	7.53	851.44	926.01	699.29	655.95	675.85	764.56
SECIS binding protein 2-like	Secisbp 2l	100763220	10.18	9.90	10.69	11.67	12.71	12.53	2087.21	2062.49	2218.37	2410.55	2552.28	2564.73
sel-1 suppressor of lin-12-like (C. elegans)	Sel1l	100751353	24.64	25.41	32.02	32.76	33.86	33.18	4700.79	4886.28	6143.36	6285.98	6447.96	6320.24
sel-1 suppressor of lin-12-like 2 (C. elegans)	Sel1l2	100771031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sel-1 suppressor of lin-12-like 3 (C. elegans)	Sel1l3	100759760	11.39	10.99	16.65	17.86	15.61	14.83	1387.68	1376.21	2084.22	2179.93	1919.90	1820.74
selectin E	Sele	100761871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
selenium binding protein 1	Selenbp 1	100753899	0.05	0.04	0.16	0.15	0.09	0.12	3.80	3.66	4.97	8.11	4.14	5.61
selenoprotein K	Selk	100771635	53.71	54.79	58.22	58.33	71.66	72.86	1513.76	1546.41	1638.31	1614.38	1993.38	1974.96
selectin L	Sell	100763803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
selenoprotein M	Selm	100762068	24.29	24.35	20.84	13.71	13.90	13.64	543.07	560.00	480.69	321.02	323.95	329.00
selenoprotein O	Selo	100758305	12.92	12.71	13.10	12.31	12.31	12.37	919.80	891.24	983.73	958.43	924.24	940.28
selectin P (granule membrane protein 140kDa, antigen CD62)	Selp	100763517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
selectin P ligand	Selplg	100773229	0.09	0.11	0.04	0.03	0.00	0.14	3.04	3.66	1.24	1.16	0.00	4.67
selenoprotein T	Selt	100768242	36.31	35.55	37.12	41.02	44.59	42.41	3299.44	3258.43	3405.80	3727.09	4038.52	3872.34
selenoprotein V	Selv	100774099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	Sema3a	100757705	1.27	1.36	1.29	1.27	0.98	1.07	157.22	176.60	168.92	157.61	126.27	129.92
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	Sema3b	100754215	40.22	38.65	34.09	28.16	17.32	19.95	3506.03	3424.97	3060.50	2513.70	1605.26	1840.36
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	Sema3c	100765927	50.16	50.72	105.22	115.78	106.38	101.29	8716.47	8894.13	18606.46	20133.92	18117.44	17487.67
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	Sema3d	100754027	0.02	0.01	0.00	0.00	0.00	0.00	3.04	0.92	0.00	0.00	0.00	0.00
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E	Sema3e	100757993	24.45	24.49	40.26	42.85	38.96	36.55	3631.36	3687.59	6070.08	6409.99	5796.96	5469.69
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	Sema3f	100755077	0.08	0.18	0.09	0.11	0.07	0.06	6.84	11.90	9.94	13.91	7.24	6.54
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G	Sema3g	100764502	0.02	0.01	0.02	0.03	0.00	0.00	2.28	1.83	1.24	2.32	0.00	0.00
sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A	Sema4a	100757026	0.01	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00

sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B	Sema4b	100772904	13.40	12.05	12.08	11.06	8.02	8.58	1314.76	1198.69	1199.86	1098.66	790.73	852.42
sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C	Sema4c	100768897	13.71	12.36	14.48	12.94	10.08	10.20	1376.29	1268.24	1500.44	1323.49	1027.74	1093.56
sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	Sema4d	100759517	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F	Sema4f	100759257	0.17	0.11	0.05	0.04	0.02	0.07	18.23	15.56	4.97	4.64	3.10	7.48
sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	Sema4g	100756606	0.00	0.00	0.00	0.03	0.00	0.00	0.76	0.00	0.00	2.32	1.03	0.93
sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	Sema5a	100756526	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B	Sema5b	100766544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	Sema6a	100769983	0.00	0.00	0.03	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.93
sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B	Sema6b	100769093	1.44	1.40	1.28	0.85	0.75	0.61	105.58	111.63	100.61	75.33	56.92	52.34
sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C	Sema6c	100753000	1.52	1.71	1.81	1.45	1.22	1.59	189.88	218.69	216.12	187.75	154.21	187.87
sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	Sema6d	100758662	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)	Sema7a	100756433	0.21	0.28	0.49	0.46	0.24	0.46	18.23	23.79	39.75	37.09	18.63	32.71
semenogelin I	Semg1	100757991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
semenogelin II	Semg2	100763783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO1/sentrin specific peptidase 1	Senp1	100754744	18.87	18.74	19.82	20.95	23.06	23.39	3739.97	3745.23	3929.96	4157.05	4543.59	4623.81
SUMO1/sentrin/SMT3 specific peptidase 2	Senp2	100758372	37.54	37.48	42.79	46.97	51.43	51.40	3202.22	3257.52	3686.51	3965.82	4350.05	4377.99
SUMO1/sentrin/SMT3 specific peptidase 3	Senp3	100763163	64.16	63.09	42.28	39.42	34.15	35.66	4120.50	4106.67	2776.06	2570.48	2297.67	2389.02
SUMO1/sentrin specific peptidase 5	Senp5	100751209	16.65	16.73	18.88	21.21	24.15	22.65	2695.60	2721.31	3092.80	3446.63	3886.37	3664.84
SUMO1/sentrin specific peptidase 6	Senp6	100765457	56.66	53.98	54.20	61.80	61.62	55.93	4120.50	3980.40	3963.50	4555.71	4550.83	4093.85

SUMO1/sentrin specific peptidase 7	Senp7	100758092	10.66	10.68	9.26	10.33	13.66	11.82	1223.62	1213.33	1086.83	1189.05	1519.36	1341.25
SUMO/sentrin specific peptidase family member 8	Senp8	100756226	6.77	6.88	7.78	7.84	9.98	8.11	244.57	243.40	279.47	273.51	363.28	283.20
selenoprotein	Sep15	100750444	169.24	166.68	144.64	160.95	175.30	166.31	4829.15	4792.03	4154.78	4479.23	4863.40	4610.73
selenophosphate synthetase 1	Sephs1	100775017	15.47	16.06	15.89	17.06	16.12	16.33	1282.86	1334.12	1330.28	1387.23	1314.43	1361.81
selenophosphate synthetase 2	Sephs2	100770125	52.50	54.44	65.93	63.01	57.37	54.67	3098.92	3217.26	3918.78	3717.81	3366.81	3241.43
selenoprotein N, 1	Sepn1	100763242	31.54	32.29	36.19	31.61	23.44	25.75	1627.69	1627.84	1845.74	1621.33	1198.51	1401.07
selenoprotein P, plasma, 1	Sepp1	100762965	52.13	54.41	68.68	71.09	68.83	68.83	3039.68	3155.04	4016.91	4121.12	3960.89	4006.93
Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase	Sepsecs	100768289	9.28	8.18	9.57	10.24	11.62	10.98	483.07	432.81	509.26	534.26	602.36	565.48
septin 1	Sept1	100771948	2.65	2.56	0.99	0.78	2.36	2.43	140.51	135.42	62.10	46.36	128.34	130.85
septin 10	Sept10	100761748	17.23	17.14	21.01	26.07	29.03	25.78	1167.41	1161.18	1336.49	1656.10	1848.49	1665.58
septin 11	Sept11	100752472	64.69	66.38	74.35	77.45	80.11	84.24	6007.96	6256.08	6195.53	6224.56	6821.59	7109.10
septin 14	Sept14	100756670	0.05	0.12	0.00	0.08	0.07	0.12	3.80	5.49	2.48	6.95	3.10	6.54
septin 2	Sept2	100772434	292.50	315.08	261.27	286.28	332.97	314.04	27215.81	29379.90	24354.84	26434.96	30542.45	29017.76
septin 3	Sept3	100763339	5.71	5.44	2.71	2.66	3.30	3.85	430.66	401.70	201.22	199.33	228.73	278.53
septin 4	Sept4	100753932	1.88	1.62	0.00	0.00	0.00	0.00	70.64	71.37	1.24	1.16	2.07	0.93
septin 5	Sept5	100769765	41.28	41.25	55.42	56.05	53.15	51.16	1563.89	1528.11	2090.43	2060.56	1876.43	1811.39
septin 6	Sept6	100768230	20.69	20.47	24.50	21.78	26.33	25.32	1203.87	1207.84	1423.43	1322.33	1606.30	1523.51
septin 7	Sept7	100773521	120.29	122.35	101.30	117.14	135.22	121.07	7576.40	7680.79	6337.13	7296.56	8444.45	7658.68
septin 8	Sept8	100762885	17.54	17.57	23.03	22.27	24.81	26.29	1970.24	1994.77	2638.19	2561.21	2804.81	2981.60
septin 9	Sept9	100770421	53.54	54.99	38.05	31.97	26.19	25.93	4575.46	4673.99	3306.44	2940.18	2462.23	2489.03
septin-12	Septin-12	100771793	4.36	4.65	5.53	4.26	4.67	4.29	320.53	324.84	386.29	279.30	301.18	276.66
selenoprotein W, 1	Sepw1	100763608	119.64	125.29	102.12	103.56	88.24	98.45	1373.25	1455.82	1162.59	1155.44	1049.48	1071.13
serine active site containing 1	Serac1	100772254	8.40	7.90	10.03	10.72	9.94	9.96	910.69	874.77	1098.00	1150.81	1070.18	1068.33
SERPINE1 mRNA binding protein 1	Serbp1	100758887	421.48	438.70	442.31	403.08	363.17	356.70	22811.24	24442.38	24342.42	22332.39	20225.70	19310.28
small EDRK-rich factor 2	Serf2	100754083	361.15	349.69	327.79	249.96	158.94	197.22	3984.54	3934.64	3588.39	2672.47	1738.78	2123.57
serine incorporator 1	Serinc1	100753040	69.11	69.65	32.18	35.15	40.42	40.51	5335.76	5388.63	2492.87	2682.90	3057.35	3092.82
serine incorporator 2	Serinc2	100760850	18.96	16.99	16.96	13.92	11.11	11.36	917.52	825.36	824.75	672.17	534.05	553.32
serine incorporator 3	Serinc3	100755676	133.15	127.46	142.93	156.32	182.22	185.24	6162.14	5957.78	6681.19	7023.05	8023.21	8211.07
serine incorporator 4	Serinc4	100766569	4.07	4.31	3.92	3.82	4.42	5.53	451.17	473.07	457.09	427.64	474.02	572.95
serine incorporator 5	Serinc5	100762651	7.95	7.72	7.60	8.32	8.85	9.17	941.83	910.46	910.45	964.22	1033.95	1082.35
stress-associated endoplasmic reticulum protein 1	Serp1	100772255	32.72	34.19	41.13	40.76	42.44	42.19	2068.98	2170.46	2609.62	2575.12	2648.53	2667.55
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10	Serpina 10	100764585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 11	Serpina 11	100765747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12	Serpina 12	100761965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4	Serpina 4	100763387	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5	Serpina 5	100759896	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 6	Serpina 6	100766333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7	Serpina 7	100770740	0.05	0.08	0.08	0.07	0.10	0.03	1.52	2.75	2.48	2.32	5.17	0.93
serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 9	Serpina 9	100761678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade B (ovalbumin), member 1	Serpinb 1	100756986	33.50	37.24	22.26	24.16	31.57	30.54	1231.97	1380.79	819.78	883.10	1111.58	1082.35
serpin peptidase inhibitor, clade B (ovalbumin), member 10	Serpinb 10	100762984	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
serpin peptidase inhibitor, clade B (ovalbumin), member 11	Serpinb 11	100773507	0.03	0.03	0.04	0.00	0.00	0.00	0.76	1.83	1.24	0.00	0.00	0.00
serpin peptidase inhibitor, clade B (ovalbumin), member 12	Serpinb 12	100773798	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade B (ovalbumin), member 13	Serpinb 13	100773018	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade B (ovalbumin), member 2	Serpinb 2	100772151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serpin peptidase inhibitor, clade B (ovalbumin), member 5	Serpinb 5	100774292	0.38	0.35	0.63	0.85	0.65	0.96	15.19	11.90	28.57	28.97	22.77	29.91
serpin peptidase inhibitor, clade B (ovalbumin), member 7	Serpinb 7	100772732	0.10	0.16	0.09	0.15	0.30	0.18	0.76	2.75	0.00	1.16	3.10	0.93
serpin peptidase inhibitor, clade C (antithrombin), member 1	Serpinc 1	100750462	0.00	0.00	0.03	0.03	0.05	0.05	1.52	0.00	2.48	3.48	6.21	2.80
serpin peptidase inhibitor, clade D (heparin cofactor), member 1	Serpind 1	100751445	0.00	0.00	0.00	0.00	0.00	0.03	0.76	0.00	0.00	1.16	0.00	0.93
serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	Serpine 1	100759702	16.30	16.27	5.90	7.50	7.28	7.80	1046.65	1087.06	382.56	467.04	475.06	486.96
serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	Serpine 2	100766558	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.93
serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 3	Serpine 3	100758722	1.60	1.89	2.21	2.55	2.33	2.59	95.70	96.08	122.97	137.91	151.11	171.98
serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	Serpinf1	100766774	17.34	16.74	15.30	14.57	8.93	11.15	638.01	593.86	572.60	543.53	334.30	401.91
serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2	Serpinf2	100765977	0.11	0.09	0.03	0.08	0.15	0.00	5.32	4.58	3.73	4.64	6.21	1.87
serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	Serping 1	100756452	0.05	0.06	0.00	0.03	0.00	0.02	2.28	3.66	0.00	2.32	1.03	0.93
serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	Serpinh 1	100689327	390.23	373.88	326.93	273.13	163.63	190.26	22382.86	21791.52	19157.95	16280.51	9740.26	11316.05

serpin peptidase inhibitor, clade I (neuroserpin), member 1	Serpini1	100759152	3.70	3.52	2.29	2.50	3.29	2.61	344.07	329.41	216.12	220.19	288.76	244.88
serpin peptidase inhibitor, clade I (pancpin), member 2	Serpini2	100759728	0.00	0.00	0.04	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
SERTA domain containing 1	Sertad1	100763975	5.83	5.98	4.95	3.36	3.25	3.55	231.66	237.91	197.49	130.96	129.37	142.07
SERTA domain containing 2	Sertad2	100753488	21.94	22.86	27.38	29.66	35.30	33.93	3237.92	3380.13	4085.22	4384.19	5185.28	5036.00
SERTA domain containing 3	Sertad3	100764273	5.20	5.99	5.09	5.35	6.41	5.29	167.10	191.24	172.65	158.77	176.98	157.02
SERTA domain containing 4	Sertad4	100761343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine-rich and transmembrane domain containing 1	Sertm1	100766696	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sestrin 1	Sesn1	100770597	8.64	7.98	9.38	8.77	10.99	10.67	784.60	736.60	853.31	786.91	1003.94	965.51
sestrin 2	Sesn2	100771178	21.58	19.46	21.32	18.44	13.20	15.18	1788.71	1584.84	1748.86	1558.75	1145.73	1318.82
sestrin 3	Sesn3	100764047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEC14 and spectrin domains 1	Sestd1	100767556	8.12	8.31	7.67	9.24	9.21	9.70	2185.19	2256.47	2114.03	2471.98	2471.55	2599.32
SET nuclear oncogene	Set	100766742	500.67	533.60	605.32	603.92	585.31	578.14	15717.90	16894.26	19165.40	18586.76	18160.90	17778.35
SET binding protein 1	Setbp1	100761078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SET domain containing 1A	Setd1a	100753962	16.50	15.91	16.03	14.67	10.57	11.13	3003.98	2915.30	2936.29	2696.81	1966.47	2053.47
SET domain containing 1B	Setd1b	100753294	1.28	1.23	1.16	0.94	0.84	0.90	214.19	216.86	204.94	164.57	144.90	153.29
SET domain containing 2	Setd2	100765637	16.04	15.81	14.02	17.01	16.84	16.18	3967.83	3906.28	3484.05	4209.20	4176.17	4026.56
SET domain containing 3	Setd3	100768717	32.69	34.22	43.83	46.27	49.41	47.66	2168.48	2304.97	2982.25	3093.16	3270.56	3129.27
SET domain containing 4	Setd4	100753169	4.56	4.39	4.50	4.03	3.38	3.63	534.72	510.59	560.18	506.45	460.57	478.55
SET domain containing 5	Setd5	100753475	31.54	30.85	29.76	33.75	31.45	32.47	6093.02	5968.76	5821.66	6505.02	6000.85	6244.53
SET domain containing 6	Setd6	100761490	13.54	13.62	13.99	15.42	16.37	16.22	889.42	899.48	916.66	1043.03	1069.14	1049.63
SET domain containing (lysine methyltransferase) 7	Setd7	100767175	9.82	10.32	8.59	9.82	9.04	9.21	2052.27	2179.61	1807.24	2059.40	1881.61	1931.96
SET domain containing (lysine methyltransferase) 8	Setd8	100774411	78.77	75.45	76.99	78.39	71.99	68.05	3907.83	3792.81	3891.46	3950.76	3694.90	3464.82
SET domain containing 9	Setd9	100770255	0.00	0.00	0.00	0.00	0.00	0.00	2.28	5.49	1.24	0.00	1.03	1.87
SET domain, bifurcated 1	Setdb1	100765697	13.52	13.55	15.26	16.62	15.89	16.42	1854.79	1853.86	2107.82	2271.48	2127.93	2262.84
SET domain, bifurcated 2	Setdb2	100774155	15.19	15.66	14.98	15.98	20.18	17.04	2586.99	2621.57	2424.55	2784.88	3278.84	3028.33
senataxin	Setx	100763725	10.78	10.34	11.86	14.13	15.50	13.80	3367.80	3253.86	3761.04	4444.46	4830.28	4343.41
seizure related 6 homolog (mouse)	Sez6	100766153	0.05	0.10	0.00	0.00	0.00	0.02	7.60	16.47	0.00	3.48	0.00	6.54
seizure related 6 homolog (mouse)-like	Sez6l	100773338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
seizure related 6 homolog (mouse)-like 2	Sez6l2	100775088	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
splicing factor 1	Sf1	100760817	107.61	102.74	110.28	99.24	92.33	100.10	7982.76	7739.35	8274.78	7300.04	6658.07	7180.13
splicing factor 3a, subunit 1, 120kDa	Sf3a1	100754437	37.32	35.66	40.27	38.11	37.09	39.82	4249.62	4133.21	4634.23	4350.59	4228.95	4519.13
splicing factor 3a, subunit 2, 66kDa	Sf3a2	100771292	55.72	50.94	46.60	33.50	19.11	23.29	2797.38	2581.31	2343.82	1668.84	997.73	1209.46
splicing factor 3a, subunit 3, 60kDa	Sf3a3	100751561	119.37	117.70	139.44	145.14	229.48	237.39	6283.67	6283.54	7353.15	7454.17	11914.76	12194.64
splicing factor 3b, subunit 1, 155kDa	Sf3b1	100772265	84.04	85.59	82.23	89.80	93.76	92.06	10668.49	10930.08	10483.21	11248.48	11823.68	11606.73
splicing factor 3b, subunit 2, 145kDa	Sf3b2	100764490	122.46	121.69	131.76	128.14	118.53	127.08	10347.96	10513.74	11389.94	10870.67	10161.50	10701.97
splicing factor 3b, subunit 3, 130kDa	Sf3b3	100752512	82.59	83.36	94.31	97.43	94.24	96.91	10903.95	10970.34	12443.23	12711.03	12316.34	12693.75
splicing factor 3b, subunit 4, 49kDa	Sf3b4	100759502	112.60	110.52	107.25	72.35	63.17	68.65	4756.23	4694.12	4579.57	3051.44	2637.15	2875.04
splicing factor 3b, subunit 5, 10kDa	Sf3b5	100756721	68.06	67.13	66.98	38.59	20.08	21.39	1013.23	996.47	992.43	559.76	292.90	313.11

splicing factor 3b, subunit 6, 14kDa	Sf3b6	100760669	133.49	134.68	135.37	127.42	123.34	122.24	2551.29	2573.99	2561.18	2376.94	2342.17	2322.65
Scm-like with four mbt domains 1	Sfmbt1	100752971	2.28	2.49	2.58	3.00	3.30	2.81	524.84	581.96	599.93	695.35	763.82	649.60
Scm-like with four mbt domains 2	Sfmbt2	100761982	11.77	12.09	14.53	16.94	17.81	17.39	2678.89	2749.68	3291.53	3805.89	3998.15	3919.07
stratifin	Sfn	100769890	0.09	0.09	0.00	0.05	0.12	0.06	3.04	1.83	1.24	2.32	3.10	0.93
splicing factor proline/glutamine-rich	Sfpq	100761355	115.53	115.76	99.73	102.32	99.35	98.82	7241.45	7380.66	6429.04	6556.01	6315.49	6257.61
secreted frizzled-related protein 1	Sfrp1	100754312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
secreted frizzled-related protein 2	Sfrp2	100771184	0.04	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
secreted frizzled-related protein 4	Sfrp4	100767339	4.30	3.79	6.39	6.51	6.62	6.37	274.95	249.80	432.25	427.64	433.66	415.93
secreted frizzled-related protein 5	Sfrp5	100760670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
splicing factor, suppressor of white-apricot family	Sfswap	100755786	22.51	21.39	20.51	20.24	16.74	17.68	2624.21	2601.44	2434.49	2358.40	2063.76	2146.00
SFT2 domain containing 1	Sft2d1	100754831	36.69	34.98	38.16	39.90	40.83	41.38	1048.92	1020.26	1063.23	1112.56	1139.52	1152.45
SFT2 domain containing 2	Sft2d2	100769572	18.45	18.54	22.25	23.85	25.21	25.29	2972.08	3002.23	3595.84	3817.48	3995.05	4046.19
surfactant associated 2	Sfta2	100755576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
surfactant protein B	Sftpb	100772747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
surfactant protein C	Sftpc	100766762	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
surfactant protein D	Sftpd	100757227	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sideroflexin 1	Sfxn1	100760674	55.98	57.30	55.88	60.45	56.08	57.15	4772.94	4910.98	4814.33	5138.65	4751.62	4852.81
sideroflexin 2	Sfxn2	100757925	3.45	3.72	5.20	4.79	5.27	5.38	206.59	211.37	299.34	282.78	306.36	321.53
sideroflexin 3	Sfxn3	100750440	25.05	25.60	19.83	19.89	14.95	16.76	894.74	928.76	737.80	737.07	616.85	675.77
sideroflexin 5	Sfxn5	100769127	0.50	0.68	0.86	0.90	1.10	0.92	62.28	80.52	91.91	100.83	110.74	100.01
sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)	Sgca	100759521	0.50	0.64	0.14	0.27	0.09	0.00	31.14	40.26	12.42	12.75	4.14	4.67
sarcoglycan, beta (43kDa dystrophin-associated glycoprotein)	Sgcb	100756579	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)	Sgcd	100764191	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
sarcoglycan, epsilon	Sgce	100763694	20.07	19.20	26.32	28.15	22.33	23.73	950.94	848.24	1213.52	1281.77	1046.37	1068.33
sarcoglycan, gamma (35kDa dystrophin-associated glycoprotein)	Sgcg	100762423	0.06	0.00	0.00	0.03	0.05	0.02	3.04	0.00	1.24	4.64	2.07	0.93
sarcoglycan, zeta	Sgcz	100773002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3-domain GRB2-like (endophilin) interacting protein 1	Sgip1	100752742	0.81	0.69	0.44	0.44	0.54	0.46	120.77	103.40	59.62	67.22	74.52	70.10
serum/glucocorticoid regulated kinase 1	Sgk1	100771433	16.60	17.86	14.97	14.42	17.50	17.77	1168.17	1281.96	1070.68	1033.76	1258.54	1285.17
serum/glucocorticoid regulated kinase 2	Sgk2	100772733	0.00	0.03	0.04	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	0.00
serum/glucocorticoid regulated kinase family, member 3	Sgk3	100767615	9.67	9.65	11.68	12.84	15.78	14.30	957.78	970.85	1158.87	1253.95	1540.06	1402.00
sphingomyelin synthase 1	Sgms1	100766719	15.07	15.70	15.32	17.06	17.63	17.07	1189.44	1234.38	1202.34	1329.28	1378.60	1316.95
sphingomyelin synthase 2	Sgms2	100760913	5.03	5.03	6.11	6.64	10.29	9.90	777.77	791.50	975.04	1045.35	1608.37	1559.96
shugoshin-like 1 (S. pombe)	Sgol1	100771769	20.35	20.74	25.23	25.56	30.01	29.58	2050.76	2082.62	2557.46	2584.39	2999.39	3005.90
shugoshin-like 2 (S. pombe)	Sgol2	100751358	12.24	11.19	10.09	13.26	14.36	11.93	1438.57	1328.63	1184.95	1541.36	1664.26	1399.20
sphingosine-1-phosphate lyase 1	Sgpl1	100761441	15.50	15.98	16.53	17.57	17.29	18.39	1863.15	1952.68	2008.45	2130.09	2064.80	2216.10
sphingosine-1-phosphate phosphatase 1	Sgpp1	100766871	19.71	21.49	22.47	23.05	24.60	23.01	1582.12	1732.16	1818.42	1846.16	1960.26	1846.91
sphingosine-1-phosphate phosphatase 2	Sgpp2	100760822	0.35	0.42	0.52	0.38	0.22	0.52	21.27	21.96	32.29	23.18	14.49	30.84
N-sulfoglucosamine sulfohydrolase	Sgsh	100755391	37.18	35.44	41.07	32.73	25.74	27.06	1833.53	1775.17	2078.01	1552.95	1131.24	1189.83

small G protein signaling modulator 1	Sgsm1	100760121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small G protein signaling modulator 2	Sgsm2	100767108	2.87	2.95	3.39	2.78	2.44	2.45	414.71	424.58	499.32	419.53	357.07	357.98
small G protein signaling modulator 3	Sgsm3	100770172	21.06	20.84	24.46	21.07	17.35	19.51	1793.27	1782.49	2046.96	1784.74	1493.49	1651.56
small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha	Sgta	100764968	57.76	57.03	50.91	42.30	26.56	32.17	3550.85	3543.01	3135.03	2590.19	1623.89	1964.68
small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta	Sgtb	100773789	3.98	3.61	3.63	4.39	4.79	4.23	505.85	470.33	467.02	559.76	607.54	547.72
SH2B adaptor protein 1	Sh2b1	100763243	21.09	20.53	18.56	15.46	12.04	13.25	1901.89	1828.24	1715.32	1399.98	1068.11	1201.05
SH2B adaptor protein 2	Sh2b2	100767263	1.28	1.10	2.22	1.41	0.86	0.99	54.69	46.67	85.70	54.47	39.33	43.93
SH2B adaptor protein 3	Sh2b3	100773100	14.90	14.66	12.78	12.56	13.06	11.93	1952.78	1915.17	1710.35	1674.64	1742.92	1596.42
SH2 domain containing 1A	Sh2d1a	100757143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH2 domain containing 1B	Sh2d1b	100768725	0.17	0.20	0.09	0.00	0.00	0.00	3.80	3.66	1.24	0.00	0.00	0.00
SH2 domain containing 2A	Sh2d2a	100751565	0.14	0.07	0.00	0.04	0.00	0.00	9.87	4.58	1.24	2.32	0.00	0.00
SH2 domain containing 3A	Sh2d3a	100751266	0.00	0.02	0.03	0.00	0.00	0.04	2.28	1.83	2.48	3.48	2.07	3.74
SH2 domain containing 3C	Sh2d3c	100759629	0.76	0.68	0.44	0.26	0.27	0.26	66.84	59.48	38.50	20.86	22.77	25.24
SH2 domain containing 4A	Sh2d4a	100754675	0.11	0.13	0.18	0.10	0.04	0.10	6.08	6.41	8.69	5.79	2.07	4.67
SH2 domain containing 4B	Sh2d4b	100758952	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	1.24	2.32	0.00	0.00
SH2 domain containing 5	Sh2d5	100765078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH2 domain containing 6	Sh2d6	100752626	0.03	0.00	0.00	0.04	0.00	0.00	4.56	2.75	2.48	3.48	2.07	0.00
SH2 domain containing 7	Sh2d7	100753703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3 domain binding glutamate-rich protein	Sh3bgr	100755137	2.47	2.51	3.08	2.79	3.19	3.36	104.06	111.63	124.21	111.26	131.44	144.87
SH3 domain binding glutamate-rich protein like	Sh3bgrl	100774610	103.34	107.68	89.58	94.00	109.00	112.14	8209.10	8622.36	7189.20	7439.11	8610.05	8861.60
SH3 domain binding glutamate-rich protein like 2	Sh3bgrl 2	100752409	1.48	1.31	0.02	0.00	0.00	0.00	195.20	176.60	2.48	0.00	0.00	2.80
SH3 domain binding glutamate-rich protein like 3	Sh3bgrl 3	100768563	104.77	98.15	85.83	84.95	68.97	74.06	1977.84	1883.14	1659.43	1562.22	1282.35	1379.57
SH3-domain binding protein 1	Sh3bp1	100751677	4.28	4.48	5.06	4.15	2.50	2.99	337.99	347.71	391.26	341.88	215.28	244.88
SH3-domain binding protein 2	Sh3bp2	100768852	2.32	2.36	1.58	1.42	1.53	1.84	214.19	212.29	140.36	127.48	131.44	151.42
SH3-domain binding protein 4	Sh3bp4	100771254	6.55	6.13	4.81	4.75	4.62	4.23	882.58	829.02	648.37	652.47	623.06	572.02
SH3-domain binding protein 5 (BTK-associated)	Sh3bp5	100766354	10.92	11.35	10.87	10.76	12.44	12.00	849.92	879.35	839.65	836.74	958.40	919.71
SH3 domain containing 19	Sh3d19	100761657	14.76	15.33	19.68	20.17	20.40	19.52	2220.13	2283.92	2961.14	3003.92	3016.99	2950.75
SH3 domain containing 21	Sh3d21	100764248	0.06	0.06	0.11	0.17	0.17	0.15	8.35	6.41	8.69	17.38	17.59	14.02
SH3-domain GRB2-like 1	Sh3gl1	100767945	40.53	39.77	41.48	31.82	20.76	23.40	2473.06	2437.65	2566.15	1919.17	1280.28	1416.96
SH3-domain GRB2-like 2	Sh3gl2	100756836	0.18	0.18	0.11	0.08	0.14	0.08	9.87	10.98	6.21	4.64	8.28	6.54
SH3-domain GRB2-like 3	Sh3gl3	100767697	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3-domain GRB2-like endophilin B1	Sh3glb1	100751986	21.36	21.13	20.12	21.50	25.53	24.29	3525.78	3510.98	3375.99	3606.56	4192.73	3976.08

SH3-domain GRB2-like endophilin B2	Sh3glb2	100753400	32.33	33.58	31.94	29.71	25.45	29.05	1591.23	1641.57	1556.33	1423.15	1227.49	1407.61
SH3-domain kinase binding protein 1	Sh3kbp 1	100750373	7.93	7.71	10.81	12.50	12.70	11.98	1108.93	1079.74	1520.31	1760.40	1783.28	1662.78
SH3 and PX domains 2A	Sh3pxd 2a	100754839	36.68	37.22	32.06	31.76	36.12	36.44	10861.41	11052.69	9531.77	9384.93	10555.83	10786.09
SH3 and PX domains 2B	Sh3pxd 2b	100773407	15.50	15.60	14.16	14.38	13.94	14.49	3222.72	3266.67	2971.07	2999.28	2883.47	3013.38
SH3 domain containing ring finger 1	Sh3rf1	100759020	13.65	13.58	13.46	13.70	13.68	13.40	1943.66	1967.32	1973.68	2001.45	1998.56	1945.05
SH3 domain containing ring finger 2	Sh3rf2	100762724	0.42	0.50	0.75	0.90	1.25	1.13	37.22	44.84	60.86	82.28	116.95	105.62
SH3 domain containing ring finger 3	Sh3rf3	100761460	0.95	1.30	1.10	1.25	0.23	0.17	110.89	140.00	121.72	146.02	27.94	18.69
SH3 domain and tetratricopeptide repeats 1	Sh3tc1	100767341	0.10	0.06	0.02	0.00	0.00	0.00	12.15	10.07	2.48	0.00	0.00	0.00
SH3 domain and tetratricopeptide repeats 2	Sh3tc2	100758013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3 and SYLF domain containing 1	Sh3yl1	100752304	3.76	4.02	4.87	5.27	5.97	5.25	234.70	251.63	294.37	318.70	386.05	336.48
SH3 and multiple ankyrin repeat domains 1	Shank1	100757633	0.01	0.01	0.00	0.02	0.00	0.00	1.52	1.83	0.00	4.64	0.00	0.00
SH3 and multiple ankyrin repeat domains 2	Shank2	100771990	0.11	0.09	0.04	0.01	0.04	0.03	25.82	20.13	8.69	1.16	9.31	7.48
SH3 and multiple ankyrin repeat domains 3	Shank3	100755144	0.28	0.32	0.27	0.24	0.18	0.22	53.93	64.97	57.14	42.88	34.15	44.86
SHANK-associated RH domain interactor	Sharpin	100765740	17.63	17.95	21.72	21.26	18.21	20.69	1396.79	1414.64	1753.83	1646.83	1423.11	1639.41
Src homology 2 domain containing adaptor protein B	Shb	100768990	12.89	12.15	14.22	12.14	10.29	11.30	340.27	332.16	398.71	325.66	283.59	298.16
sex hormone-binding globulin	Shbg	100762290	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
SHC (Src homology 2 domain containing) transforming protein 1	Shc1	100758936	52.84	51.90	62.37	55.64	49.56	55.88	5189.17	5146.15	6073.80	5703.04	5182.18	5893.09
SHC (Src homology 2 domain containing) transforming protein 2	Shc2	100761269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHC (Src homology 2 domain containing) transforming protein 3	Shc3	100760879	0.00	0.00	0.03	0.00	0.00	0.05	0.00	0.00	1.24	0.00	0.00	1.87
SHC (Src homology 2 domain containing) family, member 4	Shc4	100763505	0.10	0.13	0.08	0.10	0.03	0.03	15.19	19.22	11.18	11.59	7.24	4.67
SHC SH2-domain binding protein 1	Shcbp1	100772186	44.04	44.34	46.53	48.48	56.56	53.38	2739.66	2800.00	2916.42	3022.46	3522.06	3292.84
SHC SH2-domain binding protein 1-like	Shcbp1l	100765340	0.00	0.02	0.03	0.00	0.00	0.00	0.76	0.92	2.48	0.00	0.00	0.00
Src homology 2 domain containing transforming protein D	Shd	100767368	0.16	0.14	0.22	0.07	0.09	0.11	13.67	7.32	17.39	5.79	5.17	7.48
Src homology 2 domain containing E	She	100750678	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
Src homology 2 domain containing F	Shf	100772067	23.08	22.84	22.82	18.38	12.09	14.13	903.09	889.41	903.00	705.78	448.15	527.15
split hand/foot malformation (ectrodactyly) type 1	Shfm1	100753658	20.56	22.21	24.52	24.33	15.46	20.08	135.96	141.83	166.44	162.25	97.29	125.25
sonic hedgehog	Shh	100773402	0.00	0.00	0.00	0.00	0.00	0.00	34.94	36.60	27.33	23.18	30.01	42.99
shisa family member 2	Shisa2	100767261	0.05	0.00	0.00	0.16	0.00	0.00	1.52	0.92	0.00	2.32	0.00	0.93
shisa family member 3	Shisa3	100756690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
shisa family member 4	Shisa4	100763467	3.58	3.46	3.67	3.35	3.16	3.63	75.95	81.44	85.70	78.81	67.27	85.99
shisa family member 5	Shisa5	100767096	48.90	45.48	51.77	48.81	44.53	47.25	2563.44	2380.92	2696.57	2499.79	2261.45	2421.73
shisa family member 8	Shisa8	100763905	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
shisa family member 9	Shisa9	100754470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87

SH3KBP1 binding protein 1	Shkbp1	103159368	7.81	6.88	6.94	5.68	4.13	4.16	309.13	262.61	274.50	219.04	173.88	168.24
serine hydroxymethyltransferase 1 (soluble)	Shmt1	100773080	14.44	13.24	14.96	15.47	14.43	14.32	2510.28	2346.15	2682.91	2739.69	2530.54	2549.78
serine hydroxymethyltransferase 2 (mitochondrial)	Shmt2	100754714	242.18	233.71	257.22	222.10	163.90	180.81	12790.64	12435.31	13701.46	11526.62	8149.48	9215.84
soc-2 suppressor of clear homolog (C. elegans)	Shoc2	100767502	16.68	16.59	20.01	23.12	25.65	25.73	1724.15	1716.60	2087.95	2379.26	2654.74	2661.94
sedoheptulokinase	Shpk	100771420	2.39	2.44	2.73	2.34	2.29	2.14	172.42	173.86	197.49	170.36	160.42	153.29
SNF2 histone linker PHD RING helicase, E3 ubiquitin protein ligase	Shprh	100765358	8.73	8.47	8.47	9.84	11.25	10.76	1860.11	1782.49	1802.27	2081.42	2382.54	2278.72
SHQ1, H/ACA ribonucleoprotein assembly factor	Shq1	100753163	22.49	22.23	23.20	24.48	22.69	22.99	1711.24	1694.64	1782.39	1849.64	1718.08	1754.38
shroom family member 1	Shroom 1	103159804	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
shroom family member 2	Shroom 2	100751470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
shroom family member 3	Shroom 3	100770119	6.10	6.04	5.80	4.75	4.41	4.38	916.76	890.33	874.43	711.58	654.11	671.09
shroom family member 4	Shroom 4	100755869	5.49	5.66	6.06	7.40	7.15	6.92	1317.80	1366.15	1470.63	1781.26	1708.76	1673.06
sucrase-isomaltase (alpha-glucosidase)	Si	100773620	0.05	0.02	0.02	0.03	0.03	0.01	7.60	6.41	2.48	5.79	4.14	2.80
sialic acid acetylesterase	Siae	100754185	15.18	16.44	17.42	18.87	20.08	21.10	1012.47	1115.43	1155.14	1257.43	1328.92	1396.40
siah E3 ubiquitin protein ligase 1	Siah1	100774026	7.18	6.83	6.69	7.75	7.54	8.02	673.71	640.52	639.67	718.53	691.37	735.59
siah E3 ubiquitin protein ligase 2	Siah2	100773133	4.97	4.96	6.17	6.15	4.08	4.61	319.01	315.69	409.89	385.92	262.89	297.22
siah E3 ubiquitin protein ligase family member 3	Siah3	100753412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SID1 transmembrane family, member 1	Sidt1	100767535	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	1.16	1.03	1.87
SID1 transmembrane family, member 2	Sidt2	100763144	18.25	18.31	22.81	22.89	22.57	23.36	2154.81	2159.48	2695.33	2662.04	2627.83	2740.45
single immunoglobulin and toll-interleukin 1 receptor (TIR) domain	Sigirr	100758695	0.00	0.07	0.00	0.00	0.00	0.00	0.76	3.66	0.00	0.00	0.00	0.00
sialic acid binding Ig-like lectin 1, sialoadhesin	Siglec1	100773687	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
sialic acid binding Ig-like lectin 14	Siglec14	103164379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sigma non-opioid intracellular receptor 1	Sigmar1	100752825	67.31	60.54	69.67	67.49	61.89	64.64	2095.57	1887.71	2200.98	2072.15	1911.62	1999.26
salt-inducible kinase 1	Sik1	100752067	6.30	5.76	4.45	2.85	3.07	2.60	555.22	525.23	397.47	278.14	280.48	271.99
salt-inducible kinase 2	Sik2	100754772	8.75	8.93	8.63	8.63	9.95	9.36	1117.28	1134.64	1120.36	1081.27	1292.70	1242.18
SIK family kinase 3	Sik3	100774415	21.02	20.40	20.10	19.99	16.24	17.24	2629.52	2533.73	2541.31	2462.70	2037.89	2164.70
suppressor of IKBKE 1	Sike1	100753213	14.09	16.00	16.77	17.42	27.40	26.89	930.44	1053.20	1094.28	1154.28	1759.48	1738.49
SIL1 nucleotide exchange factor	Sil1	100751151	21.41	21.59	21.51	20.05	19.58	19.38	808.91	795.16	778.79	703.46	696.55	682.31
single-minded family bHLH transcription factor 1	Sim1	100770497	0.00	0.00	0.00	0.02	0.00	0.00	0.00	1.83	0.00	1.16	0.00	0.00
single-minded family bHLH transcription factor 2	Sim2	100753141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMO-interacting motifs containing 1	Simc1	100768496	6.68	6.31	7.38	8.11	8.76	7.86	906.13	886.67	1033.42	1111.40	1187.13	1093.56
SIN3 transcription regulator family member A	Sin3a	100761538	28.88	30.28	32.26	35.30	34.45	33.76	4034.67	4230.20	4502.56	4818.79	4708.15	4710.74

SIN3 transcription regulator family member B	Sin3b	100757579	90.54	83.11	93.41	85.01	81.33	93.58	3752.12	3489.02	4211.92	3473.28	3117.38	3448.00
signal-induced proliferation-associated 1	Sipa1	100762087	5.25	5.03	3.93	3.08	2.40	2.34	568.14	551.77	426.04	339.56	272.20	252.36
signal-induced proliferation-associated 1 like 1	Sipa1l1	100762052	21.83	21.45	25.89	26.42	24.05	24.28	3745.29	3730.59	4501.32	4553.40	4133.74	4163.95
signal-induced proliferation-associated 1 like 2	Sipa1l2	100763357	1.48	1.30	0.94	1.01	1.10	1.21	305.33	264.44	198.73	210.92	226.66	247.69
signal-induced proliferation-associated 1 like 3	Sipa1l3	100763106	5.77	5.68	6.84	5.02	3.95	3.77	1182.60	1174.90	1408.53	1031.44	793.83	783.25
signal-regulatory protein alpha	Sirpa	100751480	9.62	9.53	15.08	15.46	11.99	12.94	976.77	973.60	1545.16	1587.72	1231.63	1317.88
signal-regulatory protein beta 1	Sirpb1	100751767	0.00	0.00	0.00	0.02	0.00	0.00	1.52	1.83	0.00	2.32	1.03	0.00
sirtuin 1	Sirt1	100763298	10.64	10.82	10.23	11.81	11.41	10.53	1131.71	1153.86	1099.25	1255.11	1217.14	1126.28
sirtuin 2	Sirt2	100768923	13.28	12.52	15.35	13.88	11.76	11.81	647.13	613.99	770.09	676.81	540.26	555.19
sirtuin 3	Sirt3	100762304	11.36	11.19	12.93	12.99	12.19	13.95	549.91	537.12	623.53	651.31	617.89	695.39
sirtuin 4	Sirt4	100756695	1.98	2.13	1.66	1.87	1.61	1.84	101.78	113.46	84.46	88.08	85.90	92.53
sirtuin 5	Sirt5	100767069	19.56	20.84	18.01	18.33	16.07	16.80	732.20	794.25	690.60	672.17	599.26	624.36
sirtuin 6	Sirt6	100760117	12.46	13.78	13.79	7.78	4.38	4.13	612.95	659.74	654.58	368.54	205.96	199.08
sirtuin 7	Sirt7	100757186	25.80	26.12	11.89	9.41	5.71	5.73	1119.56	1151.11	515.47	413.73	256.68	250.49
signaling threshold regulating transmembrane adaptor 1	Sit1	100774102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SIVA1, apoptosis-inducing factor	Siva1	100768983	54.97	47.29	38.95	27.19	19.81	23.07	886.38	764.97	626.01	418.37	324.99	385.08
SIX homeobox 1	Six1	100770482	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SIX homeobox 2	Six2	100767057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SIX homeobox 4	Six4	100771053	4.11	4.11	5.01	5.07	5.67	5.15	710.93	708.24	878.16	878.46	958.40	886.07
SIX homeobox 6	Six6	100774237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spindle and kinetochore associated complex subunit 1	Ska1	100772465	6.96	6.50	7.50	7.00	7.84	8.55	250.65	239.74	260.84	280.46	305.32	315.92
spindle and kinetochore associated complex subunit 2	Ska2	100755178	38.31	41.01	16.22	19.07	22.04	18.49	671.43	702.75	264.56	315.23	380.87	303.77
spindle and kinetochore associated complex subunit 3	Ska3	100760094	10.16	9.55	10.22	10.82	12.62	11.84	588.64	548.11	621.04	622.34	738.98	672.03
src kinase associated phosphoprotein 1	Skap1	100761440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
src kinase associated phosphoprotein 2	Skap2	100755938	15.16	16.83	17.84	18.44	20.30	20.76	1413.50	1577.52	1649.49	1682.75	1832.96	1888.03
v-ski avian sarcoma viral oncogene homolog	Ski	100755403	12.42	12.05	13.23	12.06	9.67	9.50	1514.52	1486.01	1610.99	1444.01	1147.80	1142.17
SKI/DACH domain containing 1	Skida1	100753796	0.25	0.24	0.22	0.25	0.20	0.19	30.38	27.45	21.12	17.38	19.66	28.97
SKI-like oncogene	Skil	100765342	10.43	10.40	6.13	7.44	7.79	7.36	932.71	926.01	555.21	660.58	698.62	655.20
superkiller viralicidic activity 2-like (S. cerevisiae)	Skiv2l	100768851	6.22	6.41	7.08	4.65	2.68	3.02	871.19	912.29	950.20	622.34	393.29	412.19
superkiller viralicidic activity 2-like 2 (S. cerevisiae)	Skiv2l2	100768244	34.94	34.24	33.21	36.34	39.86	36.34	3563.76	3599.74	3413.25	3693.48	4065.43	3636.80
SKI family transcriptional corepressor 1	Skor1	100760389	0.02	0.00	0.00	0.02	0.00	0.00	1.52	0.00	0.00	1.16	0.00	0.00
SKI family transcriptional corepressor 2	Skor2	103159352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S-phase kinase-associated protein 1	Skp1	100757677	65.23	72.91	62.01	66.19	73.37	72.91	2652.31	3002.23	2563.67	2709.55	2932.12	2905.89
S-phase kinase-associated protein 2, E3 ubiquitin protein ligase	Skp2	100771396	6.37	6.50	7.00	7.42	8.16	8.48	564.34	569.15	616.08	655.95	706.90	743.06

Src-like-adaptor 2	Sla2	100754074	0.81	0.65	0.85	0.64	0.58	0.91	30.38	33.86	19.87	17.38	25.87	31.78
SLAIN motif family, member 1	Slain1	100763015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SLAIN motif family, member 2	Slain2	100754053	34.83	35.82	32.96	33.47	35.42	34.28	3029.04	3091.90	2887.85	2947.13	3058.38	3020.85
signaling lymphocytic activation molecule family member 1	Slamf1	100760279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SLAM family member 6	Slamf6	100754502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SLAM family member 7	Slamf7	100753616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SLAM family member 8	Slamf8	100771668	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
SLAM family member 9	Slamf9	100755075	0.18	0.04	0.10	0.00	0.04	0.00	4.56	1.83	2.48	0.00	1.03	0.00
stem-loop binding protein	Slbp	100765822	22.50	22.19	30.83	29.29	29.97	29.98	806.63	818.04	1094.28	1094.02	1086.74	1069.26
solute carrier family 10 (sodium/bile acid cotransporter), member 1	Slc10a1	100756998	0.08	0.05	0.12	0.12	0.19	0.16	3.80	2.75	12.42	8.11	12.42	14.95
solute carrier family 10 (sodium/bile acid cotransporter), member 2	Slc10a2	100689396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 10, member 3	Slc10a3	100759471	7.43	7.19	9.01	8.63	8.83	8.80	428.38	415.43	527.89	504.13	506.11	500.98
solute carrier family 10, member 4	Slc10a4	100753263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 10, member 5	Slc10a5	100760229	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
solute carrier family 10 (sodium/bile acid cotransporter), member 6	Slc10a6	100759194	0.08	0.09	0.00	0.00	0.04	0.00	4.56	3.66	0.00	1.16	1.03	0.00
solute carrier family 10, member 7	Slc10a7	100770143	3.94	4.19	4.78	5.35	5.26	4.93	458.00	477.65	550.24	613.07	587.87	550.52
solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1	Slc11a1	100752157	0.46	0.54	0.64	0.55	0.35	0.35	66.08	77.78	83.22	73.01	43.47	52.34
solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2	Slc11a2	100764508	5.38	4.65	5.49	5.29	5.68	5.65	379.01	349.54	393.74	397.51	432.62	407.52
solute carrier family 12 (sodium/potassium/chloride transporter), member 1	Slc12a1	100761861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 12 (sodium/potassium/chloride transporter), member 2	Slc12a2	100769027	3.64	4.00	4.10	4.71	6.89	5.87	603.07	663.40	689.36	775.32	1114.68	972.06
solute carrier family 12 (sodium/chloride transporter), member 3	Slc12a3	100758081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 12 (potassium/chloride transporter), member 4	Slc12a4	100751159	21.06	20.36	22.70	21.62	17.83	19.40	2491.29	2433.07	2671.73	2541.51	2088.60	2285.27
solute carrier family 12 (potassium/chloride transporter), member 5	Slc12a5	100768413	1.93	1.74	1.43	0.86	1.16	1.22	392.68	324.84	281.95	224.83	195.61	239.28
solute carrier family 12 (potassium/chloride transporter), member 6	Slc12a6	100771685	8.87	9.19	8.72	9.76	11.03	11.62	1796.31	1835.56	1774.94	1946.99	2230.40	2342.28
solute carrier family 12 (potassium/chloride transporter), member 7	Slc12a7	100764745	45.08	42.97	47.30	47.45	39.50	42.30	3383.75	3210.85	3532.49	3550.93	3069.77	3153.58
solute carrier family 12, member 8	Slc12a8	100756489	0.02	0.04	0.09	0.05	0.03	0.03	2.28	2.75	7.45	4.64	3.10	1.87

solute carrier family 12, member 9	Slc12a9	100769820	4.44	4.23	4.45	4.21	1.99	2.84	351.67	319.35	353.99	325.66	159.39	226.19
solute carrier family 13 (sodium/sulfate symporter), member 1	Slc13a1	100757983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2	Slc13a2	100767335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	Slc13a3	100750672	0.19	0.19	0.02	0.02	0.00	0.00	15.19	19.22	1.24	1.16	0.00	0.93
solute carrier family 13 (sodium/sulfate symporter), member 4	Slc13a4	100771284	0.00	0.00	0.00	0.05	0.00	0.00	0.76	0.92	0.00	3.48	0.00	0.00
solute carrier family 13 (sodium-dependent citrate transporter), member 5	Slc13a5	100754900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	Slc14a1	100773795	0.80	1.02	0.10	0.07	0.00	0.00	48.61	57.65	7.45	3.48	1.03	0.00
solute carrier family 14 (urea transporter), member 2	Slc14a2	100774089	0.03	0.02	0.05	0.04	0.00	0.00	2.28	4.58	6.21	3.48	0.00	0.00
solute carrier family 15 (oligopeptide transporter), member 1	Slc15a1	100760826	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	3.73	1.16	0.00	0.00
solute carrier family 15 (oligopeptide transporter), member 2	Slc15a2	100766001	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 15 (oligopeptide transporter), member 3	Slc15a3	100775005	3.20	2.99	4.05	3.75	3.02	2.85	224.06	217.78	285.68	256.12	211.14	200.02
solute carrier family 15 (oligopeptide transporter), member 4	Slc15a4	100761469	5.92	5.19	6.32	5.94	7.13	7.21	400.28	351.37	423.55	404.46	477.13	488.83
solute carrier family 15, member 5	Slc15a5	100750387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
solute carrier family 16 (monocarboxylate transporter), member 1	Slc16a1	100775004	85.83	87.48	99.34	102.93	94.55	94.80	7668.31	7825.37	8950.48	9205.30	8403.05	8500.82
solute carrier family 16 (aromatic amino acid transporter), member 10	Slc16a10	100774015	0.04	0.02	0.00	0.00	0.00	0.02	2.28	1.83	0.00	0.00	2.07	2.80
solute carrier family 16, member 11	Slc16a11	103159167	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.03	0.00
solute carrier family 16, member 12	Slc16a12	100767935	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 16, member 13	Slc16a13	100763738	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 16, member 14	Slc16a14	100752961	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
solute carrier family 16, member 2 (thyroid hormone transporter)	Slc16a2	100762444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 16 (monocarboxylate transporter), member 3	Slc16a3	100772122	0.08	0.03	0.00	0.00	0.00	0.05	6.08	3.66	1.24	0.00	1.03	3.74
solute carrier family 16, member 4	Slc16a4	100764919	0.09	0.18	0.15	0.15	0.30	0.21	12.15	16.47	17.39	17.38	32.08	23.37
solute carrier family 16 (monocarboxylate transporter), member 5	Slc16a5	100757367	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00

solute carrier family 16, member 6	Slc16a6	100774087	4.36	4.21	4.49	4.81	4.05	4.30	347.11	331.24	360.21	366.22	326.02	345.83
solute carrier family 16 (monocarboxylate transporter), member 7	Slc16a7	100768407	0.70	0.68	1.10	1.40	1.04	1.22	92.66	92.42	142.84	180.79	137.65	156.09
solute carrier family 16 (monocarboxylate transporter), member 8	Slc16a8	100756769	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.24	0.00	1.03	0.93
solute carrier family 16, member 9	Slc16a9	100760512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 17 (organic anion transporter), member 1	Slc17a1	100755850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 17, member 2	Slc17a2	100755263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 17 (organic anion transporter), member 3	Slc17a3	100755554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 17, member 4	Slc17a4	100756142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 17 (acidic sugar transporter), member 5	Slc17a5	100757887	10.68	10.64	10.46	10.36	11.47	11.40	967.65	963.53	940.26	917.86	1013.25	1001.03
solute carrier family 17 (vesicular glutamate transporter), member 6	Slc17a6	100773912	2.13	2.36	0.92	1.73	1.78	1.56	149.63	171.11	73.28	124.00	120.06	106.55
solute carrier family 17 (vesicular glutamate transporter), member 7	Slc17a7	100756172	0.00	0.02	0.00	0.02	0.02	0.00	0.76	0.92	0.00	2.32	1.03	0.00
solute carrier family 17 (vesicular glutamate transporter), member 8	Slc17a8	100763319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 17 (vesicular nucleotide transporter), member 9	Slc17a9	100758178	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
solute carrier family 18 (vesicular monoamine transporter), member 1	Slc18a1	100755842	0.02	0.00	0.00	0.00	0.00	0.05	0.76	0.00	0.00	0.00	5.17	2.80
solute carrier family 18 (vesicular monoamine transporter), member 2	Slc18a2	100774860	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.92	2.48	0.00	0.00	0.00
solute carrier family 18 (vesicular acetylcholine transporter), member 3	Slc18a3	100770013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 18, subfamily B, member 1	Slc18b1	100775093	13.55	12.32	6.41	7.50	8.25	8.06	986.64	912.29	483.17	563.24	635.48	586.97
solute carrier family 19 (folate transporter), member 1	Slc19a1	100689407	18.07	18.70	21.00	16.89	11.27	12.19	1329.95	1355.16	1533.98	1244.68	860.07	915.98
solute carrier family 19 (thiamine transporter), member 2	Slc19a2	100763232	3.46	3.50	3.78	4.06	4.50	4.90	347.11	349.54	380.08	407.94	458.50	491.64
solute carrier family 19 (thiamine transporter), member 3	Slc19a3	100757463	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1	Slc1a1	100760895	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	2.07	2.80
solute carrier family 1 (glial high affinity glutamate transporter), member 2	Slc1a2	100752285	0.36	0.36	0.12	0.12	0.08	0.11	34.94	30.20	9.94	6.95	6.21	5.61
solute carrier family 1 (glial high affinity glutamate transporter), member 3	Slc1a3	100689464	26.90	25.46	17.14	17.59	17.43	17.14	2286.97	2236.34	1558.82	1625.96	1588.70	1565.57
solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	Slc1a4	100689351	32.58	30.27	27.54	27.07	27.02	27.85	1775.04	1672.68	1551.37	1481.10	1370.32	1487.99

solute carrier family 1 (neutral amino acid transporter), member 5	Slc1a5	100763902	100.27	95.73	119.03	114.95	76.26	79.47	3256.14	3118.43	3877.80	3700.43	2394.96	2559.13
solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6	Slc1a6	100770833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 1 (glutamate transporter), member 7	Slc1a7	100767052	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
solute carrier family 20 (phosphate transporter), member 1	Slc20a1	100689025	59.11	56.00	51.82	53.75	51.04	52.52	4748.64	4481.83	4257.87	4459.52	4203.08	4374.25
solute carrier family 20 (phosphate transporter), member 2	Slc20a2	100689023	15.55	14.26	13.46	12.51	10.97	11.30	1482.62	1476.86	1415.98	1323.49	1172.64	1229.09
solute carrier family 22 (organic cation transporter), member 1	Slc22a1	100763203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 22 (organic anion/urate transporter), member 11	Slc22a11	100769171	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 22 (organic anion/urate transporter), member 12	Slc22a12	100756772	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 22 (organic anion/urate transporter), member 13	Slc22a13	100754527	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 22, member 14	Slc22a14	100754240	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
solute carrier family 22, member 15	Slc22a15	100774968	3.54	3.62	4.43	4.57	4.96	5.42	321.29	343.14	414.86	433.44	462.64	503.79
solute carrier family 22 (organic cation/carnitine transporter), member 16	Slc22a16	100753777	0.02	0.02	0.00	0.00	0.05	0.02	2.28	3.66	1.24	0.00	2.07	0.93
solute carrier family 22, member 17	Slc22a17	100771306	2.72	2.63	2.69	2.15	1.64	1.63	179.25	177.52	167.68	148.34	113.85	121.51
solute carrier family 22, member 18	Slc22a18	100761190	3.04	2.26	3.18	4.32	2.79	3.72	60.00	57.65	79.49	88.08	57.96	79.45
solute carrier family 22 (organic cation transporter), member 2	Slc22a2	100761164	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
solute carrier family 22, member 20	Slc22a20	100758921	0.00	0.00	0.08	0.00	0.07	0.06	1.52	1.83	1.24	1.16	2.07	2.80
solute carrier family 22, member 23	Slc22a23	100762294	7.22	7.16	9.82	9.40	7.26	8.22	1051.20	1043.14	1420.95	1369.84	1046.37	1188.90
solute carrier family 22 (organic cation transporter), member 3	Slc22a3	100763775	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
solute carrier family 22 (organic cation/carnitine transporter), member 5	Slc22a5	100755796	5.23	5.11	5.14	5.68	5.31	4.69	421.54	424.58	452.12	467.04	436.76	406.58
solute carrier family 22 (organic anion transporter), member 6	Slc22a6	100755815	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 22 (organic anion transporter), member 7	Slc22a7	100757046	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 22 (organic anion transporter), member 8	Slc22a8	100756399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 23 (ascorbic acid transporter), member 1	Slc23a1	100757803	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	1.16	1.03	0.93
solute carrier family 23 (ascorbic acid transporter), member 2	Slc23a2	100761922	11.73	11.44	9.84	10.45	11.85	11.56	2153.29	2100.92	1815.93	1913.38	2149.67	2120.77
solute carrier family 23, member 3	Slc23a3	100769122	0.02	0.02	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00

solute carrier family 24 (sodium/potassium/calcium exchanger), member 1	Slc24a1	100773154	0.05	0.04	0.01	0.05	0.03	0.02	8.35	7.32	2.48	5.79	6.21	2.80
solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	Slc24a2	100758236	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	Slc24a3	100764911	0.01	0.01	0.01	0.02	0.00	0.00	1.52	1.83	1.24	2.32	0.00	0.00
solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	Slc24a4	100752949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 24 (sodium/potassium/calcium exchanger), member 5	Slc24a5	100762640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1	Slc25a1	100751442	35.76	35.24	53.39	50.74	47.37	50.34	1183.36	1183.14	1784.88	1651.46	1554.55	1634.74
solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	Slc25a10	100766192	17.83	17.96	16.54	11.90	8.27	8.65	1052.72	1066.01	996.15	716.21	496.79	553.32
solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11	Slc25a11	100770598	26.05	23.54	30.74	27.95	27.07	30.24	998.79	927.84	1216.00	1085.91	1039.13	1172.08
solute carrier family 25 (aspartate/glutamate carrier), member 12	Slc25a12	100768097	26.51	25.57	28.48	29.25	26.64	28.25	2456.35	2414.77	2699.05	2714.19	2462.23	2619.88
solute carrier family 25 (aspartate/glutamate carrier), member 13	Slc25a13	100766212	10.66	10.94	5.87	6.97	7.36	7.10	944.87	983.66	544.03	638.56	673.78	646.79
solute carrier family 25 (mitochondrial carrier, brain), member 14	Slc25a14	100770799	9.70	10.29	12.43	12.15	14.02	14.62	421.54	436.47	535.34	522.67	618.92	626.23
solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15	Slc25a15	100773024	4.98	5.13	4.05	3.90	3.89	4.28	527.88	538.95	429.76	412.58	404.68	449.58
solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16	Slc25a16	100761558	3.19	3.37	3.03	3.62	4.67	4.42	314.45	329.41	298.10	360.42	456.43	426.21
solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17	Slc25a17	100765307	48.88	46.96	42.37	43.73	46.27	46.72	2365.96	2292.16	2073.04	2113.87	2237.64	2241.34
solute carrier family 25 (glutamate carrier), member 18	Slc25a18	100756941	0.04	0.02	0.06	0.00	0.02	0.00	7.60	10.98	6.21	3.48	8.28	2.80
solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19	Slc25a19	100769919	14.26	15.31	15.90	11.29	9.59	10.06	616.75	653.33	680.66	476.32	408.82	427.14
solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 2	Slc25a2	100758204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	Slc25a20	100765000	25.43	27.25	25.71	25.26	25.01	27.22	1308.69	1387.19	1316.61	1278.29	1257.51	1384.25
solute carrier family 25 (mitochondrial oxoadipate carrier), member 21	Slc25a21	100756680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 25 (mitochondrial carrier: glutamate), member 22	Slc25a22	100752846	19.31	17.49	23.89	19.47	10.20	12.03	1190.20	1087.06	1531.49	1307.26	745.19	806.62

solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23	Slc25a23	100750391	1.80	1.54	2.78	2.34	1.89	1.90	164.82	137.26	250.90	205.13	166.63	172.91
solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	Slc25a25	100755982	4.41	4.35	4.58	4.20	3.97	4.29	403.32	413.60	429.76	380.13	365.35	391.63
solute carrier family 25 (S-adenosylmethionine carrier), member 26	Slc25a26	100769239	10.96	9.26	10.62	9.71	7.83	9.23	311.41	272.68	314.25	272.35	238.05	281.34
solute carrier family 25, member 27	Slc25a27	100758598	1.83	1.60	2.20	2.63	2.31	2.34	159.50	159.22	204.94	230.63	213.21	205.63
solute carrier family 25 (mitochondrial iron transporter), member 28	Slc25a28	100753159	15.94	15.92	15.99	14.08	10.13	11.29	852.96	853.73	875.67	767.20	565.10	638.38
solute carrier family 25 (mitochondrial carnitine/acylcarnitine carrier), member 29	Slc25a29	100767571	0.05	0.04	0.03	0.05	0.00	0.00	3.04	3.66	2.48	3.48	2.07	1.87
solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3	Slc25a3	100758020	332.70	320.86	283.00	289.52	307.44	334.96	12170.10	11883.54	10515.51	10605.28	11277.21	12074.06
solute carrier family 25, member 30	Slc25a30	100767752	18.84	19.04	18.38	20.45	21.10	21.14	1829.73	1824.58	1783.64	1855.43	1998.56	2011.41
solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 31	Slc25a31	100773145	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
solute carrier family 25 (mitochondrial folate carrier), member 32	Slc25a32	100689360	8.87	6.93	9.14	9.43	9.47	10.40	247.61	221.44	270.77	260.76	261.85	288.81
solute carrier family 25 (pyrimidine nucleotide carrier), member 33	Slc25a33	100769798	27.63	26.83	28.33	24.05	21.92	24.42	955.50	954.38	978.76	849.49	759.68	823.44
solute carrier family 25, member 34	Slc25a34	100771069	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.24	0.00	0.00	0.93
solute carrier family 25, member 35	Slc25a35	100760373	4.17	4.45	4.72	4.71	4.64	5.14	257.48	271.76	281.95	282.78	278.41	308.44
solute carrier family 25 (pyrimidine nucleotide carrier), member 36	Slc25a36	100764208	4.38	4.25	4.35	4.95	5.26	5.12	559.78	551.77	560.18	635.09	673.78	656.14
solute carrier family 25 (mitochondrial iron transporter), member 37	Slc25a37	100772406	20.93	20.06	22.91	23.88	22.97	24.11	2596.86	2520.00	2802.15	2912.37	2790.32	2957.29
solute carrier family 25, member 38	Slc25a38	100757130	7.19	6.65	7.68	6.19	4.74	5.03	349.39	323.92	375.11	302.48	231.84	250.49
solute carrier family 25, member 39	Slc25a39	100756348	269.21	256.85	183.57	155.25	121.77	133.75	11073.32	10670.21	7573.00	6245.42	4947.23	5311.73
solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	Slc25a4	100751779	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.03	0.00
solute carrier family 25, member 40	Slc25a40	100750700	9.55	9.75	11.02	11.35	13.72	12.29	798.28	818.96	914.18	953.79	1150.90	1033.74
solute carrier family 25, member 41	Slc25a41	100762518	0.23	0.13	0.25	0.29	0.18	0.32	18.23	10.07	40.99	32.45	18.63	33.65
solute carrier family 25, member 42	Slc25a42	100750759	3.71	3.53	3.74	3.84	3.37	3.96	296.22	296.47	310.52	315.23	276.34	323.40
solute carrier family 25, member 43	Slc25a43	100769378	10.79	10.29	10.05	10.04	12.17	11.21	555.98	536.21	521.68	522.67	626.17	579.50
solute carrier family 25, member 44	Slc25a44	100756736	14.31	13.60	14.13	12.93	11.83	13.89	1495.53	1453.07	1535.22	1343.19	1288.56	1536.60
solute carrier family 25, member 45	Slc25a45	100767144	3.72	3.40	4.13	4.40	3.92	4.06	325.08	295.56	358.96	383.60	346.72	363.59

solute carrier family 25, member 46	Slc25a46	100756185	6.17	7.23	8.61	9.71	10.15	9.18	421.54	473.99	562.67	657.11	671.71	626.23
solute carrier family 25, member 47	Slc25a47	100771881	0.46	0.46	0.66	0.58	0.40	0.41	56.21	53.99	72.04	70.69	46.57	48.60
solute carrier family 25, member 48	Slc25a48	100756441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5	Slc25a5	100769087	490.67	485.70	479.26	495.02	464.77	463.03	12771.65	12709.82	12615.88	12884.87	12101.06	11977.79
solute carrier family 25, member 53	Slc25a53	100756176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 26 (anion exchanger), member 1	Slc26a1	103159861	0.03	0.03	0.00	0.02	0.02	0.03	3.04	2.75	0.00	1.16	1.03	3.74
solute carrier family 26, member 10	Slc26a10	100758673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
solute carrier family 26 (anion exchanger), member 2	Slc26a2	100762932	1.01	1.20	0.82	1.06	1.19	1.09	115.45	137.26	95.64	120.53	133.51	122.44
solute carrier family 26 (anion exchanger), member 3	Slc26a3	100757051	0.01	0.00	0.00	0.00	0.00	0.03	2.28	1.83	1.24	2.32	0.00	0.93
solute carrier family 26 (anion exchanger), member 4	Slc26a4	100757917	0.02	0.00	0.00	0.02	0.03	0.03	1.52	0.00	1.24	1.16	2.07	1.87
solute carrier family 26 (anion exchanger), member 5	Slc26a5	100755962	0.00	0.01	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.93
solute carrier family 26 (anion exchanger), member 6	Slc26a6	100760402	8.79	8.62	9.56	9.08	8.14	7.56	780.81	773.20	804.87	748.66	661.36	649.60
solute carrier family 26 (anion exchanger), member 7	Slc26a7	100767475	0.03	0.03	0.05	0.06	0.02	0.09	2.28	1.83	2.48	5.79	3.10	4.67
solute carrier family 26 (anion exchanger), member 8	Slc26a8	100764091	0.40	0.42	0.20	0.35	0.35	0.49	47.85	45.75	27.33	40.56	41.40	58.88
solute carrier family 26 (anion exchanger), member 9	Slc26a9	100756633	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
solute carrier family 27 (fatty acid transporter), member 1	Slc27a1	100774950	3.73	3.91	4.61	3.73	3.27	3.62	397.24	410.85	491.87	395.19	334.30	371.06
solute carrier family 27 (fatty acid transporter), member 2	Slc27a2	100754190	0.05	0.02	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00
solute carrier family 27 (fatty acid transporter), member 3	Slc27a3	100752129	1.59	1.74	1.49	0.92	0.85	0.78	127.60	137.26	115.51	76.49	66.24	71.97
solute carrier family 27 (fatty acid transporter), member 4	Slc27a4	100765865	11.19	10.44	14.06	12.12	10.16	11.84	912.21	854.64	1161.35	1007.10	838.34	966.45
solute carrier family 27 (fatty acid transporter), member 5	Slc27a5	100765567	0.01	0.03	0.04	0.02	0.02	0.03	0.76	1.83	2.48	2.32	1.03	1.87
solute carrier family 27 (fatty acid transporter), member 6	Slc27a6	100774029	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
solute carrier family 28 (concentrative nucleoside transporter), member 1	Slc28a1	100751684	0.07	0.04	0.00	0.00	0.02	0.00	5.32	4.58	0.00	0.00	1.03	0.00
solute carrier family 28 (concentrative nucleoside transporter), member 2	Slc28a2	100774101	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
solute carrier family 28 (concentrative nucleoside transporter), member 3	Slc28a3	100758335	2.97	3.09	0.71	0.61	0.06	0.14	121.53	124.44	24.84	24.34	4.14	3.74
solute carrier family 29 (equilibrative nucleoside transporter), member 1	Slc29a1	100754792	75.83	70.50	69.11	65.60	51.87	58.03	4831.43	4641.97	4457.85	4199.93	3363.71	3664.84
solute carrier family 29 (equilibrative nucleoside transporter), member 2	Slc29a2	100761966	12.93	11.46	11.85	10.99	7.59	8.65	841.57	741.18	787.48	703.46	510.25	586.04
solute carrier family 29 (equilibrative nucleoside transporter), member 3	Slc29a3	100767453	5.67	5.62	7.06	5.35	5.71	5.60	404.07	407.19	499.32	383.60	407.78	398.17

solute carrier family 29 (equilibrative nucleoside transporter), member 4	Slc29a4	100758998	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
solute carrier family 2 (facilitated glucose transporter), member 1	Slc2a1	100753506	13.87	14.34	13.38	10.76	7.84	7.92	979.81	1013.86	943.99	756.77	544.40	567.34
solute carrier family 2 (facilitated glucose transporter), member 10	Slc2a10	100774864	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	2.32	0.00	0.00
solute carrier family 2 (facilitated glucose transporter), member 12	Slc2a12	100769616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 2 (facilitated glucose transporter), member 13	Slc2a13	100750437	4.96	5.35	6.20	5.76	6.93	6.06	117.73	131.76	144.08	132.12	148.00	136.46
solute carrier family 2 (facilitated glucose transporter), member 2	Slc2a2	100750908	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
solute carrier family 2 (facilitated glucose transporter), member 4	Slc2a4	100766656	1.05	0.83	0.64	0.80	0.60	0.50	72.92	73.20	49.68	66.06	40.36	39.26
solute carrier family 2 (facilitated glucose/fructose transporter), member 5	Slc2a5	100756706	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 2 (facilitated glucose transporter), member 6	Slc2a6	100769228	0.00	0.02	0.03	0.00	0.03	0.00	0.76	6.41	3.73	2.32	1.03	2.80
solute carrier family 2 (facilitated glucose transporter), member 7	Slc2a7	100773299	0.00	0.00	0.00	0.18	0.00	0.00	3.04	0.92	0.00	2.32	1.03	0.00
solute carrier family 2 (facilitated glucose transporter), member 8	Slc2a8	100761956	5.31	5.18	7.02	5.93	5.39	6.72	257.48	247.97	337.85	300.16	252.54	313.11
solute carrier family 2 (facilitated glucose transporter), member 9	Slc2a9	100752981	0.18	0.10	0.06	0.03	0.53	0.72	19.75	13.73	7.45	3.48	56.92	78.51
solute carrier family 30 (zinc transporter), member 1	Slc30a1	100751596	2.74	2.63	2.27	2.16	2.46	2.32	358.50	344.05	299.34	285.09	321.88	309.38
solute carrier family 30, member 10	Slc30a10	100774627	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 30 (zinc transporter), member 2	Slc30a2	100772581	0.03	0.03	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
solute carrier family 30 (zinc transporter), member 3	Slc30a3	100772798	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 30 (zinc transporter), member 4	Slc30a4	100772645	23.49	24.59	30.29	33.51	36.52	34.04	3609.33	3788.24	4697.57	5168.78	5582.72	5264.99
solute carrier family 30 (zinc transporter), member 5	Slc30a5	100772274	24.57	24.59	25.57	27.98	31.30	30.21	1983.92	2040.52	2106.58	2252.94	2513.98	2422.66
solute carrier family 30 (zinc transporter), member 6	Slc30a6	100763102	7.59	7.21	6.77	7.37	9.40	8.87	331.92	318.43	285.68	323.34	389.15	378.54
solute carrier family 30 (zinc transporter), member 7	Slc30a7	100760930	16.00	16.09	16.72	17.59	18.82	18.06	2896.88	2925.36	3064.23	3219.48	3398.90	3272.28
solute carrier family 30 (zinc transporter), member 8	Slc30a8	100775027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 30 (zinc transporter), member 9	Slc30a9	100767136	26.75	26.42	24.96	29.06	33.16	33.97	2305.20	2274.77	2163.72	2474.29	2832.76	2837.66
solute carrier family 31 (copper transporter), member 1	Slc31a1	100689094	17.58	15.90	18.98	17.50	20.11	19.05	469.40	456.60	522.92	524.99	563.03	554.26
solute carrier family 31 (copper transporter), member 2	Slc31a2	100754404	4.31	3.93	3.86	4.14	4.87	5.33	210.39	196.73	187.56	199.33	247.36	263.58
solute carrier family 32 (GABA vesicular transporter), member 1	Slc32a1	100760747	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 33 (acetyl-CoA transporter), member 1	Slc33a1	100756415	23.72	26.90	33.22	32.55	35.80	32.78	1882.90	2130.20	2658.07	2578.60	2823.44	2604.92

solute carrier family 34 (type II sodium/phosphate contransporter), member 1	Slc34a1	100771562	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
solute carrier family 34 (type II sodium/phosphate contransporter), member 2	Slc34a2	100759469	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 34 (type II sodium/phosphate contransporter), member 3	Slc34a3	100773189	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
solute carrier family 35 (CMP-sialic acid transporter), member A1	Slc35a1	100689322	20.05	20.28	20.78	21.38	25.47	21.86	1002.59	1023.01	1068.19	1066.21	1284.42	1117.86
solute carrier family 35 (UDP-galactose transporter), member A2	Slc35a2	100689031	8.15	8.34	7.52	5.48	6.04	6.34	333.44	329.41	296.86	225.99	243.22	256.10
solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3	Slc35a3	100689394	17.30	17.81	15.62	18.04	18.77	18.23	944.11	1020.26	878.16	1016.37	1089.84	1049.63
solute carrier family 35, member A4	Slc35a4	100753554	22.21	20.17	23.95	22.66	17.66	20.31	1024.62	911.37	1122.85	1100.97	824.88	962.71
solute carrier family 35, member A5	Slc35a5	100765499	4.52	5.01	4.79	5.50	5.76	5.79	540.79	594.77	544.03	625.82	656.18	654.27
solute carrier family 35, member B1	Slc35b1	100756934	54.31	54.68	41.96	45.99	49.05	48.48	2572.56	2600.53	2012.18	2166.02	2282.14	2241.34
solute carrier family 35 (adenosine 3'-phospho 5'-phosphosulfate transporter), member B2	Slc35b2	100758269	27.57	25.55	36.88	33.81	31.08	34.84	1421.86	1312.16	1901.63	1743.02	1599.05	1790.83
solute carrier family 35 (adenosine 3'-phospho 5'-phosphosulfate transporter), member B3	Slc35b3	100767088	11.70	11.45	8.94	10.22	11.17	10.34	574.21	558.17	445.91	489.06	542.33	485.09
solute carrier family 35 (UDP-xylose/UDP-N-acetylglucosamine transporter), member B4	Slc35b4	100689030	15.26	15.08	15.01	16.71	17.12	17.40	681.31	674.38	681.91	742.87	776.24	758.02
solute carrier family 35 (GDP-fucose transporter), member C1	Slc35c1	100689382	22.68	22.18	24.29	25.12	20.71	22.91	1737.83	1706.54	1868.10	1890.20	1517.29	1707.64
solute carrier family 35 (GDP-fucose transporter), member C2	Slc35c2	100682539	49.04	45.90	47.18	35.63	28.64	34.38	2336.34	2256.47	2301.59	1692.02	1396.20	1615.11
solute carrier family 35 (UDP-GlcA/UDP-GalNAc transporter), member D1	Slc35d1	100751278	16.53	16.18	15.48	16.01	17.02	17.91	1412.74	1421.96	1357.60	1394.18	1479.00	1536.60
solute carrier family 35 (UDP-GlcNAc/UDP-glucose transporter), member D2	Slc35d2	100759470	2.20	2.95	2.57	2.56	3.44	3.33	157.22	193.07	182.59	185.43	237.01	245.82
solute carrier family 35, member D3	Slc35d3	100752085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 35, member E1	Slc35e1	100758644	37.82	37.41	48.54	45.04	41.54	44.44	3572.11	3551.25	4603.17	4226.58	3903.97	4217.23
solute carrier family 35, member E3	Slc35e3	100772125	9.47	8.98	8.00	8.72	9.90	9.77	707.89	698.17	612.35	664.06	750.37	730.91
solute carrier family 35, member E4	Slc35e4	100757148	10.91	9.71	12.85	9.30	5.84	7.37	742.07	669.80	839.65	594.53	385.01	481.35
solute carrier family 35, member F1	Slc35f1	100774041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 35, member F2	Slc35f2	100769891	12.94	13.62	13.01	13.93	15.60	15.25	954.74	1022.09	963.86	1041.87	1160.22	1138.43
solute carrier family 35, member F3	Slc35f3	100771255	0.00	0.00	0.00	0.00	0.00	0.05	0.76	1.83	2.48	1.16	3.10	2.80

solute carrier family 35, member F4	Slc35f4	100755204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 35, member F5	Slc35f5	100760455	14.43	15.27	15.26	16.15	17.82	16.40	1130.95	1220.65	1189.92	1247.00	1367.22	1261.80
solute carrier family 35, member F6	Slc35f6	100760665	32.74	31.22	35.23	29.14	16.91	20.15	1469.71	1420.13	1601.05	1374.48	855.93	965.51
solute carrier family 35, member G1	Slc35g1	100756137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 35, member G2	Slc35g2	100769965	0.28	0.36	0.00	0.16	0.12	0.10	10.63	14.64	0.00	5.79	6.21	4.67
solute carrier family 35, member G6	Slc35g6	100763737	1.40	1.22	1.22	1.20	1.20	1.01	95.70	90.59	91.91	95.03	85.90	82.25
solute carrier family 36 (proton/amino acid symporter), member 2	Slc36a2	100765800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 36, member 3	Slc36a3	100759799	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	1.87
solute carrier family 36 (proton/amino acid symporter), member 4	Slc36a4	100752115	5.88	6.28	5.15	6.54	6.75	6.43	911.45	955.30	854.56	1002.47	1056.72	994.49
solute carrier family 37 (glucose-6-phosphate transporter), member 1	Slc37a1	100765147	0.19	0.21	0.07	0.14	0.09	0.14	14.43	15.56	6.21	9.27	8.28	9.35
solute carrier family 37 (glucose-6-phosphate transporter), member 2	Slc37a2	100755431	0.08	0.06	0.09	0.11	0.16	0.11	5.32	5.49	7.45	9.27	13.45	9.35
solute carrier family 37, member 3	Slc37a3	100770346	12.95	12.97	12.77	14.41	13.26	13.64	985.12	1013.86	981.25	1118.36	1061.90	1036.55
solute carrier family 37 (glucose-6-phosphate transporter), member 4	Slc37a4	100758396	20.02	17.49	18.32	17.95	19.25	19.55	1207.67	1061.44	1099.25	1068.52	1113.65	1147.77
solute carrier family 38, member 1	Slc38a1	100769511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 38, member 10	Slc38a10	100763275	64.07	60.27	77.21	61.60	36.48	42.47	7614.38	7278.18	9346.70	7384.64	4431.81	5088.34
solute carrier family 38, member 11	Slc38a11	100753232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 38, member 2	Slc38a2	100689188	76.39	75.45	79.80	86.78	95.81	98.97	9628.68	9638.05	10106.86	10951.79	12090.71	12546.07
solute carrier family 38, member 3	Slc38a3	100754504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 38, member 4	Slc38a4	100769795	1.36	1.10	1.14	1.33	1.52	1.46	42.53	35.69	29.81	37.09	32.08	39.26
solute carrier family 38, member 5	Slc38a5	100767098	0.00	0.02	0.00	0.05	0.04	0.06	1.52	3.66	7.45	10.43	10.35	7.48
solute carrier family 38, member 6	Slc38a6	100752560	3.66	3.87	3.69	4.25	4.76	4.78	315.97	323.92	296.86	333.77	408.82	392.56
solute carrier family 38, member 7	Slc38a7	100762550	16.33	16.81	17.78	15.66	14.50	16.27	2215.58	2298.56	2436.97	2146.32	1993.38	2217.97
solute carrier family 38, member 8	Slc38a8	100750441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
solute carrier family 38, member 9	Slc38a9	100767955	5.65	5.21	6.82	6.62	8.27	7.21	537.75	526.14	621.04	688.40	773.13	712.22
solute carrier family 39 (zinc transporter), member 1	Slc39a1	100766982	47.75	48.26	47.70	42.48	37.36	39.11	2185.19	2246.41	2268.05	2050.13	1870.22	1918.88
solute carrier family 39 (zinc transporter), member 10	Slc39a10	100754926	13.88	14.28	14.98	15.45	15.70	14.24	1476.54	1524.45	1608.50	1650.30	1611.47	1519.77
solute carrier family 39, member 11	Slc39a11	100753680	17.75	18.10	15.86	15.80	14.45	15.31	1165.89	1210.59	1070.68	1054.62	989.45	1062.72

solute carrier family 39 (zinc transporter), member 12	Slc39a12	100751155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 39 (zinc transporter), member 13	Slc39a13	100759674	21.69	19.71	14.15	11.55	10.65	11.60	1960.37	1785.23	1284.32	1058.09	949.08	1066.46
solute carrier family 39 (zinc transporter), member 14	Slc39a14	100768099	10.52	10.19	8.19	9.32	7.76	8.24	984.36	961.70	788.73	874.98	722.42	776.71
solute carrier family 39 (zinc transporter), member 2	Slc39a2	100752281	0.03	0.00	0.00	0.05	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
solute carrier family 39 (zinc transporter), member 3	Slc39a3	100774781	8.68	8.50	9.07	4.48	2.39	2.29	324.32	305.62	340.33	183.11	91.08	99.07
solute carrier family 39 (zinc transporter), member 4	Slc39a4	100755397	0.04	0.03	0.11	0.15	0.08	0.07	3.04	1.83	7.45	8.11	5.17	4.67
solute carrier family 39 (zinc transporter), member 5	Slc39a5	100751461	5.57	5.07	3.94	3.71	3.00	3.92	418.51	399.87	310.52	310.59	235.98	312.18
solute carrier family 39 (zinc transporter), member 6	Slc39a6	100764156	17.37	16.96	21.64	22.91	22.11	20.64	1668.71	1636.08	2100.37	2227.44	2137.25	1988.98
solute carrier family 39 (zinc transporter), member 7	Slc39a7	103161516	118.33	116.05	130.28	94.25	60.84	64.92	4962.07	4921.05	5519.83	3898.61	2559.52	2713.35
solute carrier family 39, member 9	Slc39a9	100758147	9.86	10.19	9.68	10.81	11.29	10.55	1636.81	1693.73	1623.41	1794.01	1852.63	1761.85
solute carrier family 3 (amino acid transporter heavy chain), member 1	Slc3a1	100765887	2.03	1.87	2.21	1.73	2.40	2.62	216.47	206.80	238.48	234.10	305.32	299.09
solute carrier family 3 (amino acid transporter heavy chain), member 2	Slc3a2	100689315	255.76	260.20	272.84	239.14	200.87	218.13	13718.80	13999.10	14732.39	12832.72	10982.24	11847.87
solute carrier family 40 (iron-regulated transporter), member 1	Slc40a1	100770310	1.61	1.69	0.95	1.16	1.05	1.07	104.82	108.89	57.14	71.85	70.38	64.49
solute carrier family 41 (magnesium transporter), member 1	Slc41a1	100756335	12.79	12.69	12.89	10.95	7.81	8.25	938.03	924.18	945.23	810.08	578.56	603.80
solute carrier family 41, member 3	Slc41a3	100762387	5.47	5.77	7.87	6.59	5.25	5.78	335.72	349.54	478.20	385.92	316.71	343.96
solute carrier family 43 (amino acid system L transporter), member 1	Slc43a1	100757617	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
solute carrier family 43 (amino acid system L transporter), member 2	Slc43a2	100767730	6.04	6.21	3.92	3.63	3.35	4.05	285.59	303.79	177.62	165.73	157.32	171.04
solute carrier family 43, member 3	Slc43a3	100760704	0.09	0.06	0.00	0.04	0.05	0.05	6.08	8.24	1.24	5.79	5.17	3.74
solute carrier family 44 (choline transporter), member 1	Slc44a1	100766177	46.43	44.27	48.76	49.86	48.69	50.12	5687.43	5496.61	5848.99	5993.93	5796.96	5959.45
solute carrier family 44 (choline transporter), member 2	Slc44a2	100757777	27.49	26.39	31.55	32.85	29.44	30.44	2826.25	2787.19	3347.42	3424.61	3089.43	3131.14
solute carrier family 44, member 3	Slc44a3	100774225	0.35	0.43	0.00	0.02	0.00	0.00	23.55	30.20	0.00	1.16	0.00	0.00
solute carrier family 44, member 4	Slc44a4	100759738	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 44, member 5	Slc44a5	100763449	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
solute carrier family 45, member 1	Slc45a1	100750542	211.58	203.34	160.59	127.14	90.71	105.94	7886.30	7577.39	6077.53	4446.78	3100.82	3554.55
solute carrier family 45, member 2	Slc45a2	100771880	0.04	0.04	0.03	0.00	0.03	0.02	4.56	4.58	2.48	2.32	3.10	4.67
solute carrier family 45, member 3	Slc45a3	100755754	0.00	0.02	0.00	0.00	0.02	0.00	0.76	0.92	0.00	1.16	1.03	0.00
solute carrier family 45, member 4	Slc45a4	100775003	2.96	2.47	2.90	2.87	2.34	2.85	589.40	517.91	607.38	564.39	463.67	563.61

solute carrier family 46 (folate transporter), member 1	Slc46a1	100757832	7.83	7.43	6.52	5.84	5.05	5.85	595.48	560.92	510.50	442.71	372.60	442.10
solute carrier family 46, member 2	Slc46a2	100770552	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
solute carrier family 46, member 3	Slc46a3	100756499	4.64	4.39	4.27	5.00	5.89	5.80	312.17	295.56	288.16	333.77	385.01	380.41
solute carrier family 47 (multidrug and toxin extrusion), member 1	Slc47a1	100774248	0.02	0.02	0.00	0.03	0.00	0.00	2.28	0.92	0.00	1.16	0.00	0.00
solute carrier family 48 (heme transporter), member 1	Slc48a1	100767330	8.49	9.05	9.55	10.85	11.87	11.35	540.79	574.64	613.59	674.49	737.95	707.54
solute carrier family 4 (anion exchanger), member 1 (Diego blood group)	Slc4a1	100755180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 4, sodium bicarbonate transporter, member 10	Slc4a10	100766143	0.29	0.33	0.17	0.25	0.21	0.23	44.81	50.33	26.08	38.24	32.08	36.45
solute carrier family 4, sodium borate transporter, member 11	Slc4a11	100767829	0.01	0.03	0.01	0.01	0.04	0.00	0.76	4.58	1.24	1.16	3.10	0.00
solute carrier family 4 (anion exchanger), member 1, adaptor protein	Slc4a1ap	100756795	28.92	29.88	30.81	31.83	34.11	34.18	2163.17	2298.56	2381.08	2425.62	2584.36	2550.71
solute carrier family 4 (anion exchanger), member 2	Slc4a2	100762427	11.67	10.05	11.29	9.31	7.40	8.72	1449.96	1292.03	1413.49	1157.76	942.87	1072.07
solute carrier family 4 (anion exchanger), member 3	Slc4a3	100767310	1.13	1.53	1.26	0.90	0.79	0.77	167.86	206.80	167.68	115.89	112.81	111.23
solute carrier family 4 (sodium bicarbonate cotransporter), member 4	Slc4a4	100763623	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
solute carrier family 4 (sodium bicarbonate cotransporter), member 5	Slc4a5	100771517	0.01	0.03	0.01	0.01	0.00	0.00	3.80	6.41	2.48	3.48	1.03	1.87
solute carrier family 4, sodium bicarbonate cotransporter, member 7	Slc4a7	100770901	7.59	7.35	9.75	11.27	11.37	10.73	1734.79	1691.90	2246.94	2621.48	2582.29	2457.25
solute carrier family 4, sodium bicarbonate cotransporter, member 8	Slc4a8	100773077	0.02	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00
solute carrier family 4, sodium bicarbonate cotransporter, member 9	Slc4a9	100752461	0.00	0.02	0.02	0.00	0.01	0.06	0.00	1.83	1.24	0.00	3.10	5.61
solute carrier family 50 (sugar efflux transporter), member 1	Slc50a1	100757783	28.57	29.56	41.50	38.59	39.43	33.45	869.67	899.48	1179.98	1126.47	1095.02	991.68
solute carrier family 51, alpha subunit	Slc51a	100753765	0.21	0.29	0.02	0.04	0.06	0.07	13.67	17.39	6.21	11.59	5.17	10.28
solute carrier family 51, beta subunit	Slc51b	100751085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 52 (riboflavin transporter), member 2	Slc52a2	100755690	8.39	8.45	11.95	8.72	7.38	7.71	464.84	460.26	678.18	480.95	401.57	425.27
solute carrier family 52 (riboflavin transporter), member 3	Slc52a3	100759942	5.79	5.75	5.86	5.00	3.36	3.04	380.53	386.14	385.05	324.50	214.24	198.15
solute carrier family 5 (sodium/glucose cotransporter), member 1	Slc5a1	100767281	0.04	0.05	0.04	0.02	0.02	0.04	3.80	3.66	2.48	2.32	4.14	1.87
solute carrier family 5 (sodium/sugar cotransporter), member 10	Slc5a10	100750825	0.22	0.50	0.00	0.05	0.04	0.07	16.71	32.94	1.24	4.64	2.07	5.61
solute carrier family 5 (sodium/inositol cotransporter), member 11	Slc5a11	100758893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 5 (sodium/monocarboxylate cotransporter), member 12	Slc5a12	100760313	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	1.24	1.16	0.00	0.93

solute carrier family 5 (sodium/glucose cotransporter), member 2	Slc5a2	100770888	4.23	3.37	2.99	2.51	1.62	1.83	966.89	905.88	833.44	843.69	771.06	843.07
solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	Slc5a3	100759273	0.72	0.84	0.49	0.49	0.42	0.39	155.71	176.60	103.09	106.62	87.97	86.92
solute carrier family 5 (glucose activated ion channel), member 4	Slc5a4	100770560	0.05	0.16	0.30	0.24	0.37	0.23	3.04	10.98	17.39	13.91	21.73	8.41
solute carrier family 5 (sodium/iodide cotransporter), member 5	Slc5a5	100753604	0.17	0.17	0.17	0.14	0.18	0.14	23.55	26.54	21.12	20.86	16.56	23.37
solute carrier family 5 (sodium/multivitamin and iodide cotransporter), member 6	Slc5a6	100765026	12.02	11.41	13.01	13.30	11.38	11.88	1123.36	1093.47	1265.69	1220.34	1014.29	1076.74
solute carrier family 5 (sodium/choline cotransporter), member 7	Slc5a7	100764885	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 5 (sodium/monocarboxylate cotransporter), member 8	Slc5a8	100773217	0.00	0.02	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
solute carrier family 5 (sodium/sugar cotransporter), member 9	Slc5a9	100758999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 1	Slc6a1	100760370	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 11	Slc6a11	100752493	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 12	Slc6a12	100752445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 13	Slc6a13	100752749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (amino acid transporter), member 14	Slc6a14	100751194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neutral amino acid transporter), member 15	Slc6a15	100758864	23.17	22.46	20.20	23.46	25.60	25.67	2382.67	2350.72	2123.97	2382.74	2585.40	2617.08
solute carrier family 6, member 16	Slc6a16	100755298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neutral amino acid transporter), member 17	Slc6a17	100769158	0.07	0.05	0.02	0.03	0.03	0.02	6.08	3.66	1.24	2.32	2.07	1.87
solute carrier family 6 (neutral amino acid transporter), member 18	Slc6a18	100762871	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neutral amino acid transporter), member 19	Slc6a19	100762288	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 2	Slc6a2	100773003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 4	Slc6a4	100754706	0.98	0.93	0.14	0.46	0.54	0.45	69.88	69.54	12.42	32.45	38.29	36.45
solute carrier family 6 (neurotransmitter transporter), member 5	Slc6a5	100761450	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00

solute carrier family 6 (neurotransmitter transporter), member 6	Slc6a6	100765478	14.55	14.96	10.37	10.21	11.10	10.74	2467.74	2542.88	1776.18	1726.79	1861.94	1824.48
solute carrier family 6 (neurotransmitter transporter), member 7	Slc6a7	100764967	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 6 (neurotransmitter transporter), member 8	Slc6a8	100752334	10.94	9.78	12.30	12.92	8.68	9.80	694.98	631.37	789.97	821.67	569.24	656.14
solute carrier family 6 (neurotransmitter transporter, glycine), member 9	Slc6a9	100774471	13.77	12.79	14.26	11.98	8.98	10.04	1049.68	959.87	1057.02	905.12	678.95	755.21
solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	Slc7a1	100689176	33.26	31.06	27.62	25.97	23.26	24.93	3827.32	3622.62	3249.30	3056.07	2737.54	2957.29
solute carrier family 7 (neutral amino acid transporter light chain, asc system), member 10	Slc7a10	100769905	0.02	0.04	0.05	0.08	0.07	0.02	9.87	20.13	14.91	16.22	13.45	23.37
solute carrier family 7 (anionic amino acid transporter light chain, xc-system), member 11	Slc7a11	100764546	10.68	10.71	10.08	11.03	11.36	10.64	1032.21	1047.71	1003.61	1085.91	1115.72	1037.48
solute carrier family 7, member 14	Slc7a14	100764763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	Slc7a2	100772617	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 7 (cationic amino acid transporter, y+ system), member 3	Slc7a3	100771829	0.06	0.09	0.12	0.16	0.04	0.06	3.80	7.32	7.45	9.27	2.07	3.74
solute carrier family 7, member 4	Slc7a4	100757506	0.01	0.00	0.10	0.02	0.00	0.00	0.76	0.92	6.21	5.79	0.00	0.00
solute carrier family 7 (amino acid transporter light chain, L system), member 5	Slc7a5	100768667	224.82	218.57	214.82	205.82	172.74	192.87	18596.56	18117.66	17943.19	17187.94	14397.69	16160.44
solute carrier family 7 (amino acid transporter light chain, y+L system), member 6	Slc7a6	100760403	10.45	9.36	10.56	10.48	10.36	10.43	871.95	775.95	900.51	873.83	852.83	892.61
solute carrier family 7, member 6 opposite strand	Slc7a6os	100760110	20.40	21.55	21.70	20.70	21.99	19.62	707.89	742.09	762.64	723.17	756.57	683.24
solute carrier family 7 (amino acid transporter light chain, y+L system), member 7	Slc7a7	100768258	7.89	7.89	8.13	7.52	6.96	7.66	528.64	538.95	542.79	490.22	465.74	498.18
solute carrier family 7 (amino acid transporter light chain, L system), member 8	Slc7a8	100770731	0.04	0.02	0.00	0.01	0.01	0.02	4.56	1.83	1.24	1.16	1.03	2.80
solute carrier family 7 (amino acid transporter light chain, bo,+ system), member 9	Slc7a9	100759612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 8 (sodium/calcium exchanger), member 1	Slc8a1	100760799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 8 (sodium/calcium exchanger), member 2	Slc8a2	100765653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

solute carrier family 8 (sodium/calcium exchanger), member 3	Slc8a3	100765404	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 8 (sodium/lithium/calcium exchanger), member B1	Slc8b1	100771144	5.14	5.11	5.38	4.89	4.06	4.44	524.84	539.87	556.45	492.54	412.96	447.71
solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1	Slc9a1	100689320	12.70	12.32	13.11	12.25	9.24	10.32	1004.11	982.75	1021.00	942.20	721.39	811.29
solute carrier family 9, subfamily A (NHE2, cation proton antiporter 2), member 2	Slc9a2	100757298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3	Slc9a3	100755928	0.01	0.00	0.00	0.00	0.00	0.01	3.04	0.00	0.00	2.32	1.03	1.87
solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1	Slc9a3r1	100689081	15.58	14.44	17.36	15.45	13.32	13.82	840.81	790.59	967.59	835.58	718.28	737.45
solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 2	Slc9a3r2	100755262	0.18	0.21	0.00	0.00	0.00	0.03	10.63	12.81	0.00	1.16	0.00	1.87
solute carrier family 9, subfamily A (NHE4, cation proton antiporter 4), member 4	Slc9a4	100757585	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 9, subfamily A (NHE5, cation proton antiporter 5), member 5	Slc9a5	100766142	2.02	1.85	2.20	1.98	1.83	1.75	308.37	273.60	324.18	321.02	316.71	278.53
solute carrier family 9, subfamily A (NHE6, cation proton antiporter 6), member 6	Slc9a6	100768229	4.34	4.33	4.20	4.53	6.37	5.95	335.72	333.99	331.64	347.68	480.23	457.05
solute carrier family 9, subfamily A (NHE7, cation proton antiporter 7), member 7	Slc9a7	100769981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 9, subfamily A (NHE8, cation proton antiporter 8), member 8	Slc9a8	100759611	8.71	8.63	9.48	9.19	7.65	8.38	1263.11	1250.85	1360.09	1310.74	1101.23	1219.74
solute carrier family 9, subfamily A (NHE9, cation proton antiporter 9), member 9	Slc9a9	100761317	15.25	14.99	9.22	10.27	8.95	9.51	1471.23	1455.82	909.21	967.70	850.76	887.00
solute carrier family 9, subfamily B (NHA1, cation proton antiporter 1), member 1	Slc9b1	100766358	0.63	0.72	1.14	0.59	0.34	0.29	478.51	486.80	575.09	535.42	602.36	580.43
solute carrier family 9, subfamily B (NHA2, cation proton antiporter 2), member 2	Slc9b2	100765773	0.68	0.47	0.66	0.82	0.74	0.73	48.61	33.86	48.44	63.74	56.92	52.34
solute carrier family 9, subfamily C (Na+-transporting carboxylic acid decarboxylase), member 1	Slc9c1	100771267	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier family 9, member C2 (putative)	Slc9c2	100755156	0.49	0.49	0.48	0.57	0.60	0.58	82.03	86.01	83.22	90.40	90.04	102.81
solute carrier organic anion transporter family, member 1B3	Slco1b3	100774298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family, member 1C1	Slco1c1	100772065	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

solute carrier organic anion transporter family, member 2A1	Slco2a1	100771580	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family, member 2B1	Slco2b1	100763633	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family, member 3A1	Slco3a1	100760145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family, member 4A1	Slco4a1	100756146	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.93
solute carrier organic anion transporter family, member 4C1	Slco4c1	100759262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
solute carrier organic anion transporter family, member 5A1	Slco5a1	100770502	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
schlafen family member 14	Slfn14	100752549	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
schlafen family member 5	Slfn5	100750338	0.01	0.03	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
schlafen-like 1	Slfnl1	100757695	0.12	0.02	0.16	0.03	0.13	0.07	9.87	4.58	14.91	9.27	10.35	13.09
SRA stem-loop interacting RNA binding protein	Slirp	100759888	115.91	121.39	117.33	112.96	98.33	106.50	1158.30	1227.97	1104.22	1027.96	906.65	957.10
slit homolog 1 (Drosophila)	Slit1	100756902	0.00	0.00	0.00	0.00	0.00	0.01	0.76	0.92	0.00	1.16	1.03	2.80
slit homolog 3 (Drosophila)	Slit3	100766846	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SLIT and NTRK-like family, member 1	Slitrk1	100754536	0.10	0.07	0.00	0.02	0.03	0.04	6.84	6.41	0.00	1.16	2.07	3.74
SLIT and NTRK-like family, member 2	Slitrk2	100750784	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
SLIT and NTRK-like family, member 3	Slitrk3	100773151	0.25	0.33	0.17	0.17	0.20	0.27	28.10	38.43	21.12	20.86	24.84	32.71
SLIT and NTRK-like family, member 4	Slitrk4	100772677	0.00	0.00	0.02	0.03	0.05	0.01	0.00	0.00	1.24	2.32	4.14	0.93
SLIT and NTRK-like family, member 5	Slitrk5	100767298	0.04	0.00	0.00	0.01	0.01	0.00	3.80	0.00	0.00	1.16	1.03	0.00
SLIT and NTRK-like family, member 6	Slitrk6	100765815	0.03	0.03	0.01	0.00	0.01	0.00	2.28	2.75	1.24	0.00	1.03	0.00
STE20-like kinase	Slk	100765772	37.51	35.57	33.86	42.26	37.49	35.22	6074.79	5764.71	5497.48	6814.45	6036.04	5678.12
sarcolemma associated protein	Slmap	100769052	17.26	15.95	19.15	21.68	22.97	22.36	2472.30	2305.88	2781.03	3098.95	3305.75	3229.28
slowmo homolog 1 (Drosophila)	Slmo1	100763973	1.88	1.89	2.46	1.62	2.40	3.07	25.06	30.20	26.08	22.02	30.01	32.71
slowmo homolog 2 (Drosophila)	Slmo2	100689354	138.14	144.17	121.97	121.91	131.78	136.20	3943.53	4099.35	3479.09	3431.56	3733.20	3886.36
sarcolipin	Sln	100769600	0.00	0.00	0.00	0.00	0.12	0.21	0.76	0.92	0.00	0.00	1.03	0.93
secretory leukocyte peptidase inhibitor	Slpi	100758279	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
SAFB-like, transcription modulator	Sltm	100757547	28.23	27.24	22.55	26.87	26.11	24.51	3506.03	3447.85	2840.65	3367.82	3252.96	3045.15
SLU7 splicing factor homolog (S. cerevisiae)	Slu7	100765338	18.88	18.29	17.30	19.11	20.99	20.24	1524.40	1509.81	1425.92	1541.36	1690.13	1645.95
secreted LY6/PLAUR domain containing 1	Slurp1	100765861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
SLX1 structure-specific endonuclease subunit homolog A (S. cerevisiae)	Slx1a	100752848	16.97	15.57	13.65	9.97	10.05	9.06	300.02	298.30	284.44	213.24	221.49	219.65
SLX4 structure-specific endonuclease subunit	Slx4	100770082	9.37	9.90	9.75	9.15	9.27	9.53	1788.71	1892.29	1880.52	1760.40	1716.01	1821.67
SLX4 interacting protein	Slx4ip	100769336	4.25	4.11	3.77	4.60	4.82	4.97	416.23	413.60	377.59	443.87	459.53	493.51
SMAD family member 1	Smad1	100768619	11.61	11.86	13.22	13.88	12.97	13.62	862.08	851.90	987.46	1029.12	952.19	1018.79
SMAD family member 2	Smad2	100771578	19.01	17.71	17.07	16.48	18.91	18.12	922.08	853.73	847.10	800.81	914.93	884.20
SMAD family member 3	Smad3	100759220	9.82	10.20	12.03	13.01	12.93	13.43	1542.62	1606.80	1906.60	2033.90	2003.73	2108.61

SMAD family member 4	Smad4	100770737	12.58	12.85	12.91	13.56	14.22	14.67	1282.10	1315.82	1321.58	1384.91	1429.32	1502.95
SMAD family member 5	Smad5	100754116	17.34	17.97	18.57	19.03	18.30	18.18	1538.07	1592.16	1701.66	1743.02	1679.78	1669.32
SMAD family member 6	Smad6	100758934	0.86	0.90	0.56	0.35	0.28	0.21	18.99	23.79	18.63	15.07	8.28	9.35
SMAD family member 7	Smad7	100766709	4.72	4.31	2.50	3.62	2.44	3.96	79.75	75.03	36.02	50.99	36.22	54.21
SMAD family member 9	Smad9	100766405	2.29	2.27	4.48	4.86	6.28	5.77	300.78	302.88	585.02	650.15	820.74	758.95
small cell adhesion glycoprotein	Smagp	100774736	29.55	28.98	38.06	37.08	35.43	37.59	639.53	632.29	839.65	801.97	771.06	815.97
small ArfGAP 1	Smap1	100756395	32.30	31.41	34.45	33.24	36.14	36.12	1851.76	1798.96	1987.34	1891.36	2074.11	2048.80
small ArfGAP2	Smap2	100756534	25.79	26.25	29.55	34.05	29.80	29.53	1775.04	1821.83	2022.12	2332.91	2032.71	2017.02
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	Smarca 1	100750368	8.44	8.27	8.83	11.34	11.06	9.31	1023.86	1033.07	1073.16	1367.53	1345.48	1134.69
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	Smarca 4	100756329	37.31	36.18	32.90	31.71	24.70	25.81	6114.29	6026.41	5560.82	5212.82	4122.35	4213.49
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5	Smarca 5	100754132	68.31	65.77	81.31	96.85	90.81	80.49	6979.41	6743.80	8252.42	9709.43	9104.77	8071.81
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1	Smarca d1	100767543	7.01	6.64	7.43	8.26	9.33	8.28	912.21	873.86	963.86	1078.95	1174.71	1087.02
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1	Smarcal 1	100754301	15.45	14.24	18.77	18.74	17.26	17.21	1408.95	1290.20	1722.77	1688.55	1568.00	1544.07
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	Smarcb 1	100769126	61.04	60.81	58.07	55.27	49.49	52.61	2296.85	2325.10	2246.94	2084.90	1889.88	1969.35
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	Smarcc 1	100768250	50.57	50.19	56.48	59.61	57.99	57.60	8649.63	8660.79	9765.29	10142.87	9871.70	9811.23
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2	Smarcc 2	100752036	16.31	15.98	15.73	16.21	14.72	15.31	2356.85	2309.54	2228.30	2308.57	2085.50	2125.44
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1	Smarcd 1	100773634	14.40	14.43	12.89	13.53	11.33	12.08	1272.23	1303.01	1198.61	1218.02	1031.88	1075.80
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2	Smarcd 2	100770817	15.39	15.18	16.93	16.70	14.20	15.44	1100.57	1120.00	1230.91	1205.28	1020.50	1116.00
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	Smarcd 3	100768809	3.09	2.19	3.66	3.87	3.22	3.90	133.68	104.31	168.92	168.04	146.97	183.20
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	Smarce 1	100766868	684.26	676.79	612.71	647.95	634.18	663.93	6494.82	6368.63	5722.29	5857.18	5919.09	6012.73
structural maintenance of chromosomes 1A	Smc1a	100758263	55.93	57.41	56.30	64.50	65.03	61.70	6553.30	6743.80	6576.85	7471.56	7540.91	7151.16
structural maintenance of chromosomes 1B	Smc1b	100764313	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00
structural maintenance of chromosomes 2	Smc2	100759197	42.77	43.31	41.70	51.16	59.73	53.76	6691.54	6832.56	6549.52	7930.49	9214.48	8395.20
structural maintenance of chromosomes 3	Smc3	100759387	59.18	57.57	55.62	69.50	72.74	65.69	7100.93	6935.04	6724.66	8278.16	8605.91	7816.64

structural maintenance of chromosomes 4	Smc4	100766744	39.00	39.01	38.47	47.71	49.33	43.69	4899.79	4891.77	4801.91	5888.47	6098.14	5401.46
structural maintenance of chromosomes 5	Smc5	100758700	19.32	19.98	19.69	24.26	27.06	22.67	1151.46	1143.79	1179.98	1448.65	1574.21	1330.03
structural maintenance of chromosomes 6	Smc6	100757987	39.64	39.34	41.08	52.22	54.18	46.54	4507.11	4535.82	4749.74	5889.63	6160.24	5264.06
structural maintenance of chromosomes flexible hinge domain containing 1	Smchd1	100770189	21.06	20.88	22.60	28.90	31.47	27.97	4126.58	4154.25	4462.82	5589.47	6085.72	5498.66
single-pass membrane protein with coiled-coil domains 2	Smco2	100755783	0.11	0.03	0.08	0.08	0.03	0.00	7.60	3.66	3.73	3.48	4.14	1.87
single-pass membrane protein with coiled-coil domains 3	Smco3	100755068	0.35	0.06	0.08	0.08	0.07	0.06	6.84	1.83	6.21	1.16	1.03	0.93
single-pass membrane protein with coiled-coil domains 4	Smco4	100753911	35.05	34.33	33.54	32.13	29.65	32.57	764.86	736.60	742.77	704.62	649.97	686.98
Smith-Magenis syndrome chromosome region, candidate 8	Smcr8	100772792	9.45	9.06	9.09	9.21	10.67	10.15	660.04	635.03	639.67	650.15	742.09	705.68
single-pass membrane protein with aspartate-rich tail 1	Smdt1	100751090	126.94	119.40	110.75	102.12	99.38	113.83	2031.77	1954.51	1802.27	1606.26	1598.02	1770.26
SMEK homolog 1, suppressor of mek1 (Dictyostelium)	Smek1	100754152	24.86	24.68	19.60	21.66	22.12	20.84	3019.17	3044.32	2418.34	2657.40	2664.05	2536.69
SMEK homolog 2, suppressor of mek1 (Dictyostelium)	Smek2	100767958	28.09	28.22	27.83	32.87	34.52	31.24	3269.82	3304.19	3272.90	3841.82	3944.33	3591.94
SMG1 phosphatidylinositol 3-kinase-related kinase	Smg1	100752584	24.29	23.36	25.39	30.22	31.87	30.50	6709.01	6708.11	7308.44	8735.94	9020.94	8703.64
SMG5 nonsense mediated mRNA decay factor	Smg5	100762914	46.59	45.24	51.05	47.70	39.93	43.33	6073.28	5955.95	6707.27	6218.76	5227.72	5693.07
SMG6 nonsense mediated mRNA decay factor	Smg6	100767685	12.40	12.04	11.62	12.25	10.92	12.40	2098.61	2017.65	2001.00	2074.47	1858.84	2082.44
SMG7 nonsense mediated mRNA decay factor	Smg7	100760981	25.66	25.24	23.49	24.62	25.12	24.71	3054.87	3066.28	2881.64	3017.83	3079.08	2981.60
SMG8 nonsense mediated mRNA decay factor	Smg8	100755762	10.62	11.36	6.60	6.61	6.82	6.51	939.55	1002.88	586.26	584.10	598.22	585.10
SMG9 nonsense mediated mRNA decay factor	Smg9	100768645	12.39	11.38	9.92	7.54	3.77	4.39	545.35	525.23	439.70	324.50	175.95	206.56
small integral membrane protein 1 (Vel blood group)	Smim1	100773764	2.55	2.40	3.04	2.12	0.97	1.22	206.59	192.16	244.69	179.63	75.55	93.47
small integral membrane protein 11	Smim11	100759852	52.85	45.75	59.12	59.02	59.43	59.07	494.46	431.90	547.76	537.74	539.23	532.76
small integral membrane protein 12	Smim12	100765711	40.04	38.31	37.72	37.60	38.02	40.51	1108.17	1063.27	1032.17	1040.71	1043.27	1151.51
small integral membrane protein 13	Smim13	103159887	9.22	10.07	9.71	11.14	13.70	5.33	63.04	76.86	72.04	69.54	63.13	58.88
small integral membrane protein 14	Smim14	100765001	27.11	25.68	27.82	31.58	35.24	34.37	1429.45	1362.48	1490.50	1676.96	1842.28	1792.70
small integral membrane protein 15	Smim15	100755813	37.62	37.38	33.24	36.30	39.36	39.63	1835.81	1834.64	1640.80	1784.74	1934.39	1964.68
small integral membrane protein 17	Smim17	100764414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small integral membrane protein 18	Smim18	100754498	0.00	0.28	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.00	0.00
small integral membrane protein 19	Smim19	100773607	31.90	29.39	33.28	34.85	38.99	39.93	1064.11	990.07	1134.03	1151.97	1290.63	1338.45
small integral membrane protein 20	Smim20	100772426	45.71	46.89	46.99	46.05	45.27	43.84	1076.27	1109.02	1102.97	1065.05	1058.79	1008.51

small integral membrane protein 22	Smim22	100771500	0.71	0.63	0.70	0.86	1.31	1.08	58.48	44.84	63.35	64.90	97.29	82.25
small integral membrane protein 23	Smim23	100771670	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small integral membrane protein 24	Smim24	100761863	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	2.48	1.16	0.00	0.00
small integral membrane protein 3	Smim3	100763506	10.61	10.07	8.04	8.44	10.11	9.23	359.26	343.14	272.02	286.25	344.65	313.11
small integral membrane protein 4	Smim4	100763344	22.82	21.84	27.90	17.21	13.53	14.47	235.46	226.93	290.65	181.95	166.63	164.50
small integral membrane protein 5	Smim5	100756265	0.05	0.08	0.06	0.06	0.05	0.08	4.56	7.32	4.97	3.48	4.14	9.35
small integral membrane protein 6	Smim6	100756556	0.00	0.00	0.24	0.00	0.00	0.18	0.00	0.92	2.48	0.00	1.03	3.74
small integral membrane protein 8	Smim8	100764958	22.42	23.89	17.73	18.88	19.99	17.55	404.83	404.44	310.52	318.70	340.51	313.11
small integral membrane protein 9	Smim9	100756853	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
small lysine-rich protein 1	Smkr1	100763168	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
small leucine-rich protein 1	Smlr1	100757446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
survival motor neuron domain containing 1	Smndc1	100758118	50.73	53.94	51.14	49.44	54.69	53.28	2685.73	2911.64	2767.37	2666.67	2919.70	2855.42
smoothened, frizzled class receptor	Smo	100762005	22.69	21.60	25.62	23.32	18.50	20.81	2099.37	2006.67	2453.12	2204.27	1822.61	2040.38
SPARC related modular calcium binding 1	Smoc1	100763939	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
SPARC related modular calcium binding 2	Smoc2	100774477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermine oxidase	Smox	100763379	16.52	15.23	10.41	8.65	8.11	9.17	946.39	874.77	593.72	487.91	456.43	524.35
sphingomyelin phosphodiesterase 1, acid lysosomal	Smpd1	100760557	48.04	46.44	58.37	56.49	45.28	48.55	2980.43	2892.42	3628.14	3497.62	2801.71	3017.11
sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase)	Smpd2	100771550	10.07	10.27	12.85	12.47	10.22	11.74	464.08	473.99	593.72	567.87	454.36	531.83
sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)	Smpd3	100755276	0.35	0.39	0.48	0.47	0.41	0.42	50.89	51.24	69.56	74.17	52.78	63.56
sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3)	Smpd4	100753418	40.26	39.02	66.76	63.95	55.78	57.97	4327.09	4210.98	7196.65	6868.92	5957.38	6199.66
sphingomyelin phosphodiesterase, acid-like 3A	Smpdl3a	100753337	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sphingomyelin phosphodiesterase, acid-like 3B	Smpdl3b	100772622	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
small muscle protein, X-linked	Smpx	100753795	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermine synthase	Sms	100753198	46.01	47.66	55.09	54.71	56.17	52.10	2181.40	2258.30	2607.14	2551.94	2593.68	2416.12
smoothelin	Smtn	100762366	6.31	6.02	5.47	4.52	2.83	3.04	578.01	546.28	521.68	396.35	272.20	273.86
smoothelin-like 1	Smtnl1	100757041	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	2.07	0.00
smoothelin-like 2	Smtnl2	100758954	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)	Smu1	100736555	41.11	43.97	40.65	43.33	46.78	51.32	2284.69	2421.18	2282.96	2383.90	2548.14	2790.92
single-strand-selective monofunctional uracil-DNA glycosylase 1	Smug1	100770488	10.58	11.00	9.97	9.45	8.74	9.19	838.53	845.49	724.14	709.26	652.04	725.30
SMAD specific E3 ubiquitin protein ligase 1	Smurf1	100765164	38.19	37.05	30.40	28.49	24.73	26.07	5926.68	5820.53	4778.31	4417.80	3812.89	4032.17
SMAD specific E3 ubiquitin protein ligase 2	Smurf2	100773704	19.99	20.13	17.77	19.95	21.40	21.61	2883.21	2894.25	2600.93	2867.17	3040.79	3103.10
SET and MYND domain containing 1	Smyd1	100766221	1.47	1.26	1.42	1.19	0.77	1.05	74.43	63.14	69.56	60.26	48.64	59.82

SET and MYND domain containing 2	Smyd2	100761694	34.58	34.12	31.76	31.65	26.14	27.64	1465.15	1436.60	1376.23	1324.65	1083.63	1160.86
SET and MYND domain containing 3	Smyd3	100764840	3.58	2.96	4.66	4.42	4.06	4.36	150.39	144.58	199.98	188.90	182.16	207.50
SET and MYND domain containing 4	Smyd4	100771953	20.84	20.93	27.09	28.90	31.25	31.75	663.08	665.23	863.25	905.12	985.31	1005.70
SMYD family member 5	Smyd5	100769992	21.08	19.44	23.01	18.94	15.60	18.74	1567.69	1459.48	1720.29	1442.86	1179.88	1405.74
snail family zinc finger 1	Snai1	100757314	1.85	1.73	1.27	0.83	0.68	0.78	77.47	75.03	53.41	34.77	31.05	33.65
snail family zinc finger 2	Snai2	100767968	6.54	7.40	5.77	7.94	7.69	7.67	395.72	443.79	349.03	482.11	459.53	462.66
snail family zinc finger 3	Snai3	100766252	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	0.00	0.00
synaptosomal-associated protein, 23kDa	Snap23	100757957	10.83	11.22	8.52	9.39	11.05	10.24	618.26	645.10	501.80	547.01	639.62	595.38
synaptosomal-associated protein, 25kDa	Snap25	100769917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptosomal-associated protein, 29kDa	Snap29	100756340	18.18	19.52	19.70	21.53	24.37	22.45	1743.90	1863.92	1895.42	2054.76	2291.46	2131.05
synaptosomal-associated protein, 47kDa	Snap47	100759226	9.62	8.72	8.99	8.11	7.43	8.39	453.44	426.41	428.52	384.76	336.37	385.08
synaptosomal-associated protein, 91kDa	Snap91	100761319	0.25	0.18	0.01	0.04	0.00	0.00	26.58	21.96	4.97	5.79	1.03	1.87
small nuclear RNA activating complex, polypeptide 1, 43kDa	Snapc1	100751588	19.75	21.95	23.39	26.16	25.99	23.89	964.61	1080.65	1140.24	1260.90	1256.47	1155.25
small nuclear RNA activating complex, polypeptide 2, 45kDa	Snapc2	100759063	30.44	29.36	30.69	29.93	22.85	25.87	1096.02	1047.71	1117.88	1063.89	799.01	901.02
small nuclear RNA activating complex, polypeptide 3, 50kDa	Snapc3	100766104	6.85	6.80	6.61	7.13	8.88	7.80	686.62	676.21	674.45	717.37	880.77	780.45
small nuclear RNA activating complex, polypeptide 4, 190kDa	Snapc4	100761303	4.68	4.67	5.77	4.96	4.65	4.38	679.79	661.57	837.17	724.32	666.53	640.25
small nuclear RNA activating complex, polypeptide 5, 19kDa	Snapc5	100755752	41.90	44.25	42.08	44.62	40.07	47.96	297.74	306.54	295.62	290.89	286.69	344.89
SNAP-associated protein	Snapin	100752727	31.95	32.12	34.24	35.17	42.66	42.26	849.16	892.16	941.50	966.54	1161.25	1164.60
synuclein, alpha (non A4 component of amyloid precursor)	Snca	100774767	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synuclein, alpha interacting protein	Sncaip	100764301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synuclein, beta	Sncb	100774653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synuclein, gamma (breast cancer-specific protein 1)	Sncg	100774524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
staphylococcal nuclease and tudor domain containing 1	Snd1	100773866	112.23	113.32	112.08	105.48	86.41	97.05	9736.53	9831.12	9705.67	8972.36	7436.38	8344.73
sushi, nidogen and EGF-like domains 1	Sned1	100753197	0.00	0.00	0.00	0.01	0.00	0.00	1.52	0.92	0.00	1.16	1.03	0.93
SNF8, ESCRT-II complex subunit	Snf8	100753514	100.51	98.15	78.32	79.37	71.86	83.31	2544.46	2529.15	2020.88	1988.71	1860.91	2061.88
Smad nuclear interacting protein 1	Snip1	100755086	24.44	25.10	27.88	23.60	23.23	23.72	1598.83	1640.66	1830.84	1549.48	1514.18	1555.29
stannin	Snn	100769927	2.77	2.72	1.84	1.87	1.80	2.27	217.99	215.95	152.78	168.04	158.35	189.74
small nucleolar RNA, C/D box 14E	Snord14e	100689271	0.00	0.00	0.00	0.00	0.00	0.00	1.52	3.66	2.48	2.32	2.07	4.67
syntaphilin	Snph	100762714	0.22	0.21	0.10	0.22	0.18	0.19	18.99	9.15	4.97	10.43	11.38	11.22
SNF related kinase	Snrk	100770428	3.53	3.62	4.34	4.22	3.65	3.95	502.81	513.33	606.14	589.89	510.25	558.00
small nuclear ribonucleoprotein 200kDa (U5)	Snrnp200	100758820	51.71	52.26	48.83	52.19	49.57	51.26	10886.48	11152.43	10469.55	11049.14	10457.50	10747.77
small nuclear ribonucleoprotein 25kDa (U11/U12)	Snrnp25	100759758	20.06	20.53	19.49	17.22	15.42	17.02	406.35	422.75	393.74	338.40	318.78	354.24
small nuclear ribonucleoprotein 27kDa (U4/U6.U5)	Snrnp27	100773920	124.67	121.15	121.42	108.35	113.26	114.16	2599.90	2658.17	2588.51	2192.68	2334.93	2282.46

small nuclear ribonucleoprotein 35kDa (U11/U12)	Snrnp35	100772584	14.56	14.85	15.83	12.06	9.46	11.59	448.89	467.58	508.01	370.85	300.15	361.72
small nuclear ribonucleoprotein 40kDa (U5)	Snrnp40	100761430	69.99	69.71	66.39	69.84	67.06	68.55	2801.94	2809.15	2645.64	2740.85	2646.46	2680.63
small nuclear ribonucleoprotein 48kDa (U11/U12)	Snrnp48	100766215	26.49	25.75	27.53	30.14	34.25	29.91	812.71	816.21	847.10	952.63	1085.70	959.91
small nuclear ribonucleoprotein 70kDa (U1)	Snrnp70	100770370	156.57	165.93	159.11	130.17	114.96	114.43	6962.70	7472.16	7217.77	5843.27	5222.54	5186.48
small nuclear ribonucleoprotein polypeptide A	Snrpa	100764569	89.97	83.57	78.31	55.06	34.07	33.88	2650.03	2455.95	2291.65	1603.95	1002.90	998.23
small nuclear ribonucleoprotein polypeptide A'	Snrpa1	100771086	66.78	65.97	81.49	87.04	85.78	83.03	1771.25	1796.21	2240.72	2303.93	2287.32	2194.60
small nuclear ribonucleoprotein polypeptides B and B1	Snrpb	100751537	252.94	249.60	244.74	186.59	143.19	153.81	6177.33	6104.19	6138.39	4615.98	3666.96	3931.22
small nuclear ribonucleoprotein polypeptide B	Snrpb2	100771707	75.33	73.51	59.00	67.17	69.23	65.50	1896.57	1953.60	1540.19	1743.02	1777.07	1662.78
small nuclear ribonucleoprotein polypeptide C	Snrpc	100759153	94.78	88.33	84.50	62.48	55.54	57.34	1982.40	1863.92	1783.64	1285.24	1143.66	1152.45
small nuclear ribonucleoprotein D1 polypeptide 16kDa	Snrpd1	100764953	185.09	186.47	183.00	178.62	173.81	167.20	3590.34	3630.85	3477.84	3326.10	3296.43	3160.12
small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	Snrpd2	100757226	177.19	163.55	151.34	154.11	123.07	127.77	2159.37	2005.75	1912.81	1847.32	1500.73	1642.21
small nuclear ribonucleoprotein D3 polypeptide 18kDa	Snrpd3	100768269	141.02	144.41	119.55	108.29	91.30	96.93	3829.60	3864.19	3148.69	2715.35	2302.84	2476.87
small nuclear ribonucleoprotein polypeptide E	Snrpe	100763691	116.51	120.69	123.25	123.05	116.99	117.95	1726.43	1811.77	1809.72	1759.24	1729.46	1662.78
small nuclear ribonucleoprotein polypeptide F	Snrpf	100758168	233.58	239.29	195.30	202.75	224.82	223.58	2094.05	2154.90	1699.17	1586.56	1679.78	1603.89
small nuclear ribonucleoprotein polypeptide G	Snrpg	100774499	214.13	223.30	193.51	181.32	181.34	205.96	1954.29	2047.85	1743.89	1579.61	1604.23	1764.66
syntrophin, alpha 1	Snta1	100757978	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	Sntb2	100754410	9.37	8.22	9.72	9.68	9.71	10.31	337.24	300.13	383.80	363.90	356.04	382.28
syntrophin, gamma 1	Sntg1	100762519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
syntrophin, gamma 2	Sntg2	100752603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sentan, cilia apical structure protein	Sntn	100754229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
snurportin 1	Snupn	100761247	24.15	22.55	21.80	22.10	25.95	24.70	1468.95	1366.15	1319.10	1318.85	1574.21	1477.71
SNRPN upstream reading frame	Snurf	100756368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SNW domain containing 1	Snw1	100759596	83.33	89.33	92.69	96.45	101.96	98.05	5010.68	5364.84	5580.70	5701.89	6062.95	5789.34
sorting nexin 1	Snx1	100773593	38.13	38.28	49.30	50.02	52.16	53.75	2122.91	2151.24	2749.98	2677.10	2794.46	2894.67
sorting nexin 10	Snx10	100756513	0.05	0.01	0.02	0.00	0.03	0.01	3.80	0.92	2.48	0.00	2.07	0.00
sorting nexin 11	Snx11	100751542	24.28	23.22	17.91	16.84	17.06	18.52	1523.64	1464.05	1131.54	1065.05	1071.21	1146.84
sorting nexin 12	Snx12	100756869	40.54	40.05	45.72	46.13	48.76	49.63	3170.32	3145.89	3578.45	3583.38	3757.00	3871.40
sorting nexin 13	Snx13	100757982	11.92	12.24	12.25	14.37	15.44	13.79	2445.72	2518.17	2526.40	2943.66	3138.08	2812.42
sorting nexin 14	Snx14	100767333	8.91	8.44	5.04	6.04	6.23	5.70	875.75	842.75	496.83	587.57	611.68	571.08
sorting nexin 15	Snx15	100768682	7.11	7.56	7.52	6.99	5.55	7.07	276.47	301.05	310.52	272.35	232.87	282.27
sorting nexin 16	Snx16	100759459	12.16	12.53	12.10	13.00	14.93	15.13	774.73	807.97	762.64	846.01	948.05	966.45
sorting nexin 17	Snx17	100767433	67.36	63.86	78.48	73.71	63.08	74.84	3984.54	3763.53	4579.57	4237.01	3748.72	4417.25
sorting nexin 18	Snx18	100750588	22.73	23.84	27.26	27.47	25.11	23.47	2363.69	2488.89	2869.22	2857.90	2598.85	2442.29
sorting nexin 19	Snx19	100754067	17.41	17.59	21.69	23.65	24.44	25.98	2307.48	2330.59	2916.42	3161.53	3250.89	3496.60

sorting nexin 2	Snx2	100774009	25.15	23.99	23.00	27.08	27.65	28.93	1378.56	1336.86	1258.23	1447.49	1495.56	1534.73
sorting nexin 20	Snx20	100757776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
sorting nexin family member 21	Snx21	100769579	10.73	10.29	9.84	7.48	6.50	6.61	529.40	509.67	479.45	380.13	330.16	349.57
sorting nexin 22	Snx22	100774084	0.07	0.04	0.00	0.05	0.04	0.00	6.84	1.83	2.48	6.95	2.07	5.61
sorting nexin 24	Snx24	100773139	1.62	1.49	1.30	1.07	1.06	0.76	103.30	99.74	78.25	61.42	63.13	47.67
sorting nexin 25	Snx25	100769737	6.05	5.98	6.82	7.37	8.43	8.04	552.19	567.32	629.74	684.92	759.68	744.93
sorting nexin family member 27	Snx27	100753773	40.14	40.74	43.85	46.83	51.83	51.36	5985.17	6063.93	6568.16	6980.17	7675.46	7671.77
sorting nexin 29	Snx29	100753883	2.23	2.41	2.71	2.73	3.12	3.19	305.33	335.82	360.21	343.04	412.96	439.29
sorting nexin 3	Snx3	100769734	147.49	148.67	127.00	129.83	150.13	157.69	4087.84	4255.82	3660.43	3678.41	4241.37	4350.89
sorting nexin family member 30	Snx30	100772271	12.60	12.80	15.98	17.18	17.82	17.44	2554.33	2605.10	3267.93	3487.19	3587.26	3542.40
sorting nexin 31	Snx31	100757250	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sorting nexin 33	Snx33	100760671	19.68	19.39	36.28	37.68	30.38	31.57	2146.46	2105.49	3967.23	4133.87	3292.29	3457.34
sorting nexin 4	Snx4	100755911	39.90	39.37	37.12	42.09	43.61	41.63	2657.63	2640.79	2512.74	2773.30	2872.09	2746.99
sorting nexin 5	Snx5	100772610	106.69	107.08	127.45	137.57	142.78	132.79	5587.17	5659.48	6593.00	7004.51	7248.01	6795.98
sorting nexin 6	Snx6	100757927	63.34	69.07	74.08	73.56	85.69	85.00	2019.61	2187.85	2294.13	2230.92	2646.46	2629.23
sorting nexin 7	Snx7	100760647	8.82	9.13	8.15	8.36	10.64	9.11	404.83	423.66	372.63	390.56	489.55	429.01
sorting nexin 8	Snx8	100769926	32.27	30.98	36.06	29.99	23.05	27.26	2467.74	2371.77	2743.77	2266.85	1743.95	2060.95
sorting nexin 9	Snx9	100773889	32.26	32.93	30.51	32.70	31.70	30.58	3017.65	3109.28	2872.95	3067.66	2994.22	2853.55
sterol O-acyltransferase 1	Soat1	100689317	51.71	51.35	55.50	54.65	56.16	57.04	4646.10	4702.36	5045.36	4926.57	5061.08	5067.78
sterol O-acyltransferase 2	Soat2	100752385	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	1.03	0.93
sine oculis binding protein homolog (Drosophila)	Sobp	100774735	1.66	2.10	1.04	0.65	1.00	0.85	90.39	118.04	60.86	34.77	55.89	50.47
suppressor of cytokine signaling 3	Socs3	100769267	4.27	4.32	3.95	3.07	2.44	2.33	333.44	346.80	310.52	241.06	207.00	189.74
suppressor of cytokine signaling 4	Socs4	100750379	6.12	6.29	5.58	6.50	7.35	7.43	742.07	768.63	688.12	792.70	905.61	910.37
suppressor of cytokine signaling 5	Socs5	100764298	13.81	13.91	13.84	16.04	19.10	19.00	1650.48	1676.34	1681.79	1937.71	2271.79	2287.14
suppressor of cytokine signaling 6	Socs6	100751669	6.94	7.04	8.03	8.52	7.76	8.13	1015.50	1037.65	1206.07	1266.70	1134.34	1209.46
suppressor of cytokine signaling 7	Socs7	100763757	10.97	10.83	7.84	8.33	8.66	8.58	2116.84	2091.77	1540.19	1613.22	1651.84	1663.71
superoxide dismutase 1, soluble	Sod1	100765091	179.77	169.95	158.65	164.30	162.31	155.72	1932.27	1823.66	1673.09	1688.55	1680.82	1591.74
superoxide dismutase 2, mitochondrial	Sod2	100760320	12.07	12.44	14.43	15.15	15.74	14.86	1295.77	1347.84	1558.82	1616.69	1677.71	1587.07
superoxide dismutase 3, extracellular	Sod3	100765292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
suppressor of glucose, autophagy associated 1	Soga1	100754944	4.96	4.67	3.74	3.14	2.53	2.56	780.81	753.07	613.59	512.24	401.57	411.25
SOGA family member 3	Soga3	100765876	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis and oogenesis specific basic helix-loop-helix 1	Sohlh1	100759765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis and oogenesis specific basic helix-loop-helix 2	Sohlh2	100767763	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SON DNA binding protein	Son	100769440	39.80	40.38	40.13	41.99	43.84	44.11	9827.68	9956.48	9955.33	10444.19	10819.75	10990.78
sorbin and SH3 domain containing 1	Sorbs1	100755778	3.46	3.61	3.20	3.47	4.01	3.72	565.10	592.94	515.47	548.17	649.97	586.04
sorbin and SH3 domain containing 2	Sorbs2	100770751	4.38	4.14	3.34	3.92	3.71	3.63	575.73	559.09	460.81	535.42	497.83	486.03
sortilin-related VPS10 domain containing receptor 1	Sorcs1	100774929	0.01	0.02	0.15	0.00	0.00	0.00	15.19	10.98	23.60	15.07	2.07	3.74
sortilin-related VPS10 domain containing receptor 2	Sorcs2	100774826	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
sortilin-related VPS10 domain containing receptor 3	Sorcs3	100771459	0.01	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
sorbitol dehydrogenase	Sord	100751427	151.86	152.43	168.88	164.53	150.61	160.94	10009.97	10050.73	11142.76	10772.16	9787.87	10501.01

sortilin-related receptor, L(DLR class) A repeats containing	Sorl1	100753560	0.06	0.06	0.02	0.00	0.00	0.02	5.32	5.49	2.48	2.32	2.07	3.74
sortilin 1	Sort1	100750717	16.78	16.91	20.01	21.35	21.26	20.44	1440.09	1442.09	1699.17	1819.50	1806.05	1791.76
son of sevenless homolog 1 (Drosophila)	Sos1	100757521	7.42	7.50	8.48	8.70	8.42	7.86	1858.59	1891.37	2132.66	2194.99	2096.88	1978.70
son of sevenless homolog 2 (Drosophila)	Sos2	100769325	14.06	14.44	17.55	20.15	20.35	20.19	2238.36	2291.24	2779.79	3180.08	3182.58	3177.88
sclerostin	Sost	100751279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sclerostin domain containing 1	Sostdc1	100758491	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sosondowah ankyrin repeat domain family member B	Sowahb	100758438	0.02	0.04	0.07	0.00	0.06	0.07	2.28	2.75	4.97	1.16	5.17	4.67
sosondowah ankyrin repeat domain family member C	Sowahc	100762040	3.97	4.01	4.64	4.80	4.64	4.35	299.26	306.54	340.33	354.63	341.55	330.87
SRY (sex determining region Y)-box 10	Sox10	100754443	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SRY (sex determining region Y)-box 13	Sox13	100763409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SRY (sex determining region Y)-box 14	Sox14	100769389	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SRY (sex determining region Y)-box 15	Sox15	100758241	0.00	0.06	0.08	0.00	0.00	0.00	0.00	0.92	1.24	1.16	0.00	0.93
SRY (sex determining region Y)-box 18	Sox18	100767412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SRY (sex determining region Y)-box 2	Sox2	100759815	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SRY (sex determining region Y)-box 30	Sox30	100763103	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.93
SRY (sex determining region Y)-box 4	Sox4	103164042	29.84	30.61	53.23	45.44	43.94	45.87	2487.49	2544.71	4483.93	3801.26	3667.99	3850.84
SRY (sex determining region Y)-box 5	Sox5	100763944	2.37	2.36	2.61	2.88	3.62	3.28	477.75	501.44	568.88	600.32	747.26	688.85
SRY (sex determining region Y)-box 6	Sox6	100755098	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
SRY (sex determining region Y)-box 7	Sox7	100754082	0.05	0.09	0.09	0.03	0.07	0.09	2.28	3.66	3.73	1.16	3.10	3.74
SRY (sex determining region Y)-box 8	Sox8	100774670	0.23	0.17	0.20	0.13	0.03	0.06	18.99	14.64	16.15	10.43	2.07	4.67
SRY (sex determining region Y)-box 9	Sox9	100762861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sp1 transcription factor	Sp1	100767199	7.17	7.01	7.23	7.71	7.62	8.07	863.60	836.34	868.22	923.66	910.79	958.97
Sp2 transcription factor	Sp2	100762021	15.00	15.33	8.71	8.08	6.64	6.73	1313.24	1329.54	765.13	698.83	567.17	583.23
Sp3 transcription factor	Sp3	100774926	35.28	33.33	32.11	37.63	41.12	38.94	2112.28	2014.90	1950.08	2283.07	2476.72	2355.37
Sp4 transcription factor	Sp4	100770723	2.76	2.58	2.95	3.13	3.66	3.10	717.76	678.04	775.06	814.72	944.94	828.12
Sp5 transcription factor	Sp5	103164057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sp6 transcription factor	Sp6	100753609	0.00	0.03	0.04	0.08	0.00	0.00	0.00	0.92	2.48	2.32	0.00	0.00
Sp7 transcription factor	Sp7	100767487	0.09	0.17	0.00	0.04	0.03	0.00	4.56	6.41	0.00	1.16	3.10	0.00
sperm autoantigenic protein 17	Spa17	100753884	0.36	0.43	0.25	0.08	0.35	0.06	6.84	8.24	4.97	1.16	9.31	0.93
sperm acrosome associated 1	Spaca1	100770302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm acrosome associated 3	Spaca3	100762682	0.25	0.10	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00

sperm acrosome associated 4	Spaca4	100756761	0.00	0.15	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
sperm acrosome associated 5	Spaca5	100766432	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	1.03	0.93
sperm acrosome associated 7	Spaca7	103160355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm associated antigen 1	Spag1	100756676	0.10	0.08	0.10	0.13	0.00	0.03	3.80	3.66	4.97	5.79	2.07	0.93
sperm associated antigen 16	Spag16	100761061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sperm associated antigen 17	Spag17	100772829	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.83	0.00	2.32	3.10	2.80
sperm associated antigen 4	Spag4	100756140	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.93
sperm associated antigen 5	Spag5	100761908	36.48	37.85	37.72	42.74	44.71	42.64	3003.98	3095.56	3100.25	3462.85	3523.09	3362.01
sperm associated antigen 6	Spag6	100754966	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
sperm associated antigen 7	Spag7	100771644	29.44	30.23	28.30	29.28	21.44	23.97	841.57	893.07	837.17	854.12	635.48	679.50
sperm associated antigen 8	Spag8	103161421	0.08	0.05	0.14	0.13	0.06	0.10	3.80	2.75	2.48	3.48	1.03	3.74
sperm associated antigen 9	Spag9	100766397	28.96	28.96	14.01	16.65	17.51	16.91	4474.45	4519.35	2205.95	2564.69	2716.84	2645.12
secreted protein, acidic, cysteine-rich (osteonectin)	Sparc	100760092	240.00	235.71	274.60	279.16	243.32	241.29	15309.27	15032.17	17487.34	17561.11	15029.04	15150.06
SPARC-like 1 (hevin)	Sparcl1	100766476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spastin	Spast	100765919	11.16	11.24	11.83	12.82	13.16	13.33	1675.54	1738.56	1779.91	1926.12	1998.56	2003.93
spermatogenesis associated 1	Spata1	100766516	1.10	1.03	1.20	1.37	1.58	1.41	104.82	102.48	119.24	140.23	170.77	133.66
spermatogenesis associated 13	Spata13	100763006	14.87	15.21	17.17	19.74	24.33	25.45	1579.08	1658.04	1891.70	2103.44	2671.30	2539.50
spermatogenesis associated 16	Spata16	100754210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis associated 17	Spata17	100759946	2.45	2.12	0.23	0.44	0.64	0.60	128.36	121.70	16.15	23.18	31.05	28.97
spermatogenesis associated 18	Spata18	100756286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis associated 19	Spata19	100752873	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis associated 2	Spata2	100759901	35.29	33.34	31.32	25.21	20.15	21.07	2713.83	2576.73	2438.22	1959.73	1630.10	1737.55
spermatogenesis associated 20	Spata20	100767844	1.53	1.61	0.14	0.25	0.08	0.08	116.21	124.44	12.42	17.38	5.17	5.61
spermatogenesis associated 21	Spata21	100774539	0.15	0.18	0.17	0.14	0.05	0.06	15.95	16.47	17.39	15.07	9.31	8.41
spermatogenesis associated 22	Spata22	100767402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis associated 24	Spata24	100756358	1.08	0.93	1.29	1.16	0.94	1.09	75.19	76.86	86.95	82.28	58.99	59.82
spermatogenesis associated 25	Spata25	100773117	0.31	0.24	0.26	0.18	0.10	0.33	14.43	9.15	6.21	6.95	4.14	9.35
spermatogenesis associated 2-like	Spata2l	100761797	0.23	0.34	0.29	0.27	0.31	0.22	16.71	26.54	18.63	19.70	20.70	15.89
spermatogenesis associated 3	Spata3	100751036	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis associated 32	Spata32	100766016	0.31	0.22	0.13	0.01	0.07	0.07	28.86	21.96	11.18	4.64	9.31	7.48
spermatogenesis associated 33	Spata33	100762386	1.22	1.12	2.01	1.64	1.86	2.19	25.82	20.13	33.54	31.29	36.22	40.19
spermatogenesis associated 4	Spata4	100752845	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

spermatogenesis associated 45	Spata45	100766435	0.05	0.11	0.08	0.00	0.06	0.23	1.52	1.83	1.24	1.16	1.03	4.67
spermatogenesis associated 5	Spata5	100754901	18.11	18.69	21.53	22.48	23.62	21.80	1425.66	1498.82	1730.23	1809.07	1850.56	1706.71
spermatogenesis associated 5-like 1	Spata5l1	100773232	12.32	12.65	11.63	13.17	11.75	12.26	734.47	780.52	731.59	798.50	728.63	775.78
spermatogenesis associated 6	Spata6	100773475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis associated 6-like	Spata6l	100761183	3.17	3.56	3.77	3.21	2.91	3.60	157.22	180.26	182.59	161.09	148.00	185.06
spermatogenesis associated 9	Spata9	100758262	0.52	0.72	0.55	1.11	0.79	0.85	31.90	43.92	40.99	61.42	52.78	45.80
spermatogenesis and centriole associated 1	Spatc1	100752755	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spermatogenesis and centriole associated 1-like	Spatc1l	100753798	0.03	0.00	0.13	0.08	0.00	0.07	0.76	0.00	3.73	2.32	0.00	1.87
spermatogenesis associated, serine-rich 1	Spats1	100757112	1.05	1.18	0.65	0.72	0.85	0.73	79.75	82.35	44.72	59.10	81.76	71.03
spermatogenesis associated, serine-rich 2	Spats2	100762195	32.77	33.89	34.47	36.03	31.57	31.95	2288.49	2373.60	2428.28	2492.84	2184.86	2244.14
spermatogenesis associated, serine-rich 2-like	Spats2l	100774384	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
SPC24, NDC80 kinetochore complex component	Spc24	100770237	33.07	34.87	36.88	30.72	28.77	27.26	456.48	467.58	471.99	414.89	369.49	372.93
SPC25, NDC80 kinetochore complex component	Spc25	100761897	66.62	69.60	68.95	74.13	92.70	85.06	2460.91	2606.93	2557.46	2724.62	3368.88	3074.13
signal peptidase complex subunit 1 homolog (S. cerevisiae)	Spcs1	100762175	121.42	130.35	136.13	126.20	148.47	147.97	2586.23	2759.74	2880.40	2607.57	3114.27	3104.04
signal peptidase complex subunit 2 homolog (S. cerevisiae)	Spcs2	100755739	70.29	67.65	72.27	70.90	84.95	81.13	2934.10	2875.04	3049.32	2926.27	3498.25	3342.38
signal peptidase complex subunit 3 homolog (S. cerevisiae)	Spcs3	100753146	83.98	86.81	72.76	83.42	93.51	91.24	7738.19	7998.31	6769.37	7687.12	8575.90	8461.56
SAM pointed domain containing ETS transcription factor	Spdef	100756355	0.05	0.18	0.40	0.26	0.23	0.24	3.04	5.49	12.42	16.22	7.24	13.09
spindle apparatus coiled-coil protein 1	Spdl1	100765969	6.32	5.85	4.66	5.73	6.51	6.95	465.60	459.35	356.48	447.34	484.37	516.87
speedy/RINGO cell cycle regulator family member A	Spdya	100755331	0.12	0.04	0.00	0.09	0.41	0.18	3.04	1.83	0.00	3.48	9.31	2.80
sperm antigen with calponin homology and coiled-coil domains 1	Specc1	100751699	0.17	0.16	0.04	0.06	0.02	0.02	21.27	21.96	4.97	5.79	2.07	1.87
sperm antigen with calponin homology and coiled-coil domains 1-like	Specc1l	100767395	20.51	21.81	12.35	12.60	13.28	12.45	704.85	739.35	423.55	410.26	409.85	409.39
sperm flagellar 1	Spef1	100766382	0.99	0.84	0.76	0.86	0.85	0.83	107.85	95.16	91.91	82.28	89.01	91.60
sperm flagellar 2	Spef2	100760200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPEG complex locus	Speg	100767885	0.33	0.32	0.10	0.20	0.04	0.17	85.83	105.23	44.72	44.04	15.52	19.63
spermatid maturation 1	Spem1	100764619	0.00	0.03	0.07	0.14	0.00	0.03	0.76	0.92	6.21	5.79	0.00	3.74
spen family transcriptional repressor	Spen	100754338	7.43	7.05	5.95	5.53	4.78	4.93	2675.10	2564.84	2169.93	2025.79	1741.88	1791.76
spermatid associated	Spert	100752719	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sperm equatorial segment protein 1	Spesp1	100758358	0.00	0.06	0.04	0.04	0.00	0.00	0.00	1.83	1.24	1.16	0.00	0.00
spastic paraplegia 11 (autosomal recessive)	Spg11	100765400	6.25	5.90	5.67	5.96	6.80	6.93	1639.09	1604.97	1566.27	1663.05	1832.96	1875.88
spastic paraplegia 20 (Troyer syndrome)	Spg20	100766989	8.01	8.88	10.83	11.41	12.41	12.40	901.57	978.17	1217.25	1275.97	1386.88	1399.20

spastic paraplegia 21 (autosomal recessive, Mast syndrome)	Spg21	100751665	37.05	39.70	45.30	46.43	47.53	50.30	1576.80	1668.11	1922.75	1919.17	1972.68	2089.92
spastic paraplegia 7 (pure and complicated autosomal recessive)	Spg7	100763722	12.32	13.93	13.32	13.48	12.87	13.67	1340.59	1529.02	1443.30	1467.19	1380.67	1464.63
sphingosine kinase 1	Sphk1	100762053	9.57	8.52	8.69	6.82	4.68	5.14	505.09	455.69	462.06	359.27	248.40	273.86
sphingosine kinase 2	Sphk2	100774790	4.28	3.57	5.17	3.95	3.75	3.21	271.16	228.76	329.15	259.60	231.84	202.82
SPHK1 interactor, AKAP domain containing	Sphkap	100761697	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spleen focus forming virus (SFFV) proviral integration oncogene	Spi1	100763362	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
Spi-B transcription factor (Spi-1/PU.1 related)	Spib	100771912	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
Spi-C transcription factor (Spi-1/PU.1 related)	Spic	100751058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
spindle and centriole associated protein 1	Spice1	100767243	6.66	6.21	6.78	6.50	8.63	7.69	668.39	654.25	724.14	675.65	865.25	786.99
scaffolding protein involved in DNA repair	Spidr	100771321	4.68	4.21	4.20	4.39	5.64	5.36	600.04	567.32	529.13	581.78	735.88	680.44
spindlin 1	Spin1	100763151	28.65	30.11	35.18	35.93	39.46	41.87	3657.18	3838.57	4517.47	4576.57	4981.39	5357.53
spindlin family, member 4	Spin4	100767892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spindlin-2C	Spindlin-2	100754735	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 1	Spink1	100754615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 13 (putative)	Spink13	100766971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 14 (putative)	Spink14	100756891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 2 (acrosin-trypsin inhibitor)	Spink2	100756777	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 4	Spink4	100758031	0.00	0.00	0.00	0.10	0.00	0.00	1.52	1.83	4.97	3.48	3.10	3.74
serine peptidase inhibitor, Kazal type 5	Spink5	100755486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 6	Spink6	100756601	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kazal type 8 (putative)	Spink8	100767379	0.42	0.34	0.00	0.07	0.06	0.00	9.87	6.41	0.00	1.16	2.07	0.00
serine peptidase inhibitor, Kunitz type 1	Spint1	100761602	0.04	0.07	0.00	0.03	0.05	0.02	3.04	2.75	0.00	2.32	2.07	0.93
serine peptidase inhibitor, Kunitz type, 2	Spint2	100763680	0.25	0.03	0.00	0.04	0.11	0.03	9.87	3.66	2.48	4.64	5.17	3.74
serine peptidase inhibitor, Kunitz type, 3	Spint3	100765825	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine peptidase inhibitor, Kunitz type 4	Spint4	100768149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spire-type actin nucleation factor 1	Spire1	100760597	8.92	9.16	8.90	9.10	9.16	8.60	1389.96	1414.64	1372.51	1402.29	1404.48	1326.30
spire-type actin nucleation factor 2	Spire2	100760932	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
sialophorin	Spn	100752546	0.94	0.92	0.64	0.60	0.56	0.51	74.43	64.97	52.17	37.09	44.50	30.84
spinster homolog 1 (Drosophila)	Spns1	100766250	43.01	39.71	35.85	22.71	14.99	15.83	2454.83	2305.88	2075.53	1323.49	893.19	955.23
spinster homolog 2 (Drosophila)	Spns2	100758091	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
spinster homolog 3 (Drosophila)	Spns3	100757800	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00

SPO11 meiotic protein covalently bound to DSB	Spo11	100762801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPOC domain containing 1	Spocd1	100773782	0.05	0.02	0.04	0.07	0.05	0.05	3.80	2.75	4.97	5.79	6.21	5.61
sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	Spock1	100756151	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	Spock2	100760620	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	Spock3	100761920	0.00	0.06	0.13	0.04	0.00	0.00	0.76	1.83	2.48	1.16	0.00	0.00
spondin 1, extracellular matrix protein	Spon1	100771703	0.03	0.03	0.02	0.07	0.03	0.01	3.80	4.58	2.48	5.79	2.07	2.80
spondin 2, extracellular matrix protein	Spon2	100766996	0.02	0.06	0.10	0.27	0.04	0.10	0.76	4.58	6.21	16.22	2.07	5.61
speckle-type POZ protein	Spop	100756346	57.95	58.13	37.81	40.66	45.32	45.69	3499.20	3529.28	2340.09	2453.43	2781.01	2763.82
speckle-type POZ protein-like	Spopl	100751898	10.80	10.71	10.31	11.71	10.99	10.97	1632.25	1618.69	1562.55	1769.67	1643.56	1662.78
secreted phosphoprotein 1	Spp1	100769547	0.32	0.23	0.03	0.00	0.03	0.00	10.63	9.15	1.24	0.00	1.03	0.00
secreted phosphoprotein 2, 24kDa	Spp2	100764926	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal peptide peptidase like 2A	Sppl2a	100759395	17.16	18.26	16.79	17.72	20.39	19.53	2308.24	2465.10	2264.32	2353.77	2671.30	2581.56
signal peptide peptidase like 2B	Sppl2b	100760584	20.33	19.59	20.62	14.52	8.73	10.22	1662.63	1581.18	1664.40	1167.03	719.32	842.14
signal peptide peptidase like 2C	Sppl2c	100754875	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal peptide peptidase like 3	Sppl3	100774388	13.35	12.74	12.65	12.50	11.63	12.82	1081.58	1045.88	1044.60	1012.90	951.15	1044.03
sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)	Spr	100767396	16.38	15.74	20.33	19.18	21.25	20.75	688.90	656.08	847.10	786.91	885.95	866.44
sprouty-related, EVH1 domain containing 1	Spred1	100762918	15.84	16.03	15.68	17.89	21.10	19.39	2343.94	2380.00	2345.06	2651.61	3099.78	2872.24
sprouty-related, EVH1 domain containing 2	Spred2	100752293	15.78	15.92	13.57	13.48	12.42	12.23	1026.14	1060.52	903.00	895.85	848.69	822.51
sprouty-related, EVH1 domain containing 3	Spred3	100765145	2.22	1.63	2.10	1.65	1.39	2.00	125.32	106.14	137.87	111.26	116.95	147.68
shadow of prion protein homolog (zebrafish)	Sprn	100754078	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SprT-like N-terminal domain	Sprtn	100764217	5.47	5.11	5.48	5.92	6.24	5.67	717.76	668.89	731.59	770.68	810.39	749.61
sprouty homolog 1, antagonist of FGF signaling (Drosophila)	Spry1	100754609	1.07	0.90	0.65	0.46	0.27	0.37	41.02	31.11	21.12	18.54	9.31	14.02
sprouty homolog 2 (Drosophila)	Spry2	100758564	13.70	14.32	14.35	14.16	15.16	15.33	774.73	820.79	824.75	799.65	872.49	876.72
sprouty homolog 3 (Drosophila)	Spry3	100755688	0.02	0.02	0.05	0.02	0.00	0.00	1.52	0.92	3.73	1.16	0.00	0.93
sprouty homolog 4 (Drosophila)	Spry4	100764553	0.41	0.29	0.19	0.24	0.39	0.35	34.18	22.88	14.91	20.86	34.15	28.97
SPRY domain containing 3	Spryd3	100752094	12.29	12.16	14.81	14.49	15.67	16.79	834.73	843.66	1017.27	976.97	1070.18	1138.43
SPRY domain containing 4	Spryd4	100763884	25.19	22.55	26.13	23.51	20.35	21.85	514.21	452.03	521.68	363.90	281.52	319.66
SPRY domain containing 7	Spryd7	100752529	22.05	20.85	18.59	21.91	19.77	19.44	467.88	451.11	423.55	442.71	433.66	420.60
splA/ryanodine receptor domain and SOCS box containing 1	Spsb1	100768949	4.75	4.87	4.08	4.22	4.05	4.02	405.59	415.43	351.51	359.27	340.51	343.96
splA/ryanodine receptor domain and SOCS box containing 2	Spsb2	100757837	8.55	7.30	8.84	7.32	4.68	5.37	259.76	221.44	267.05	217.88	146.97	166.37
splA/ryanodine receptor domain and SOCS box containing 3	Spsb3	100752604	25.38	21.67	29.15	24.37	18.36	20.61	1538.07	1299.35	1753.83	1479.94	1139.52	1256.20
splA/ryanodine receptor domain and SOCS box containing 4	Spsb4	100764505	2.16	2.58	1.75	1.34	2.15	1.74	138.24	158.30	113.03	84.60	138.69	113.10

spectrin, alpha, erythrocytic 1 (elliptocytosis 2)	Spta1	100771374	0.92	0.91	0.26	0.28	0.28	0.28	116.21	118.04	31.05	32.45	34.15	35.52
spectrin, alpha, non-erythrocytic 1	Sptan1	100763248	35.74	34.64	36.95	37.37	36.53	37.93	8446.08	8333.21	8988.98	8871.53	8602.81	8915.81
spectrin, beta, erythrocytic	Sptb	100765992	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
spectrin, beta, non-erythrocytic 1	Sptbn1	100763016	48.52	51.70	31.66	35.00	40.00	40.91	11873.88	12683.28	7759.32	8492.56	9749.57	10028.07
spectrin, beta, non-erythrocytic 2	Sptbn2	100758389	0.01	0.01	0.02	0.02	0.01	0.01	18.23	14.64	21.12	27.81	19.66	28.04
spectrin, beta, non-erythrocytic 4	Sptbn4	100769207	0.09	0.09	0.02	0.08	0.05	0.05	15.19	17.39	6.21	11.59	13.45	14.95
spectrin, beta, non-erythrocytic 5	Sptbn5	100771467	0.03	0.03	0.03	0.02	0.01	0.03	15.19	16.47	14.91	17.38	9.31	14.95
serine palmitoyltransferase, long chain base subunit 1	Sptlc1	100689326	24.35	24.38	24.47	24.67	25.54	25.38	1864.67	1891.37	1915.30	1904.11	1948.88	1925.42
serine palmitoyltransferase, long chain base subunit 2	Sptlc2	100689415	24.91	24.31	27.31	27.86	29.60	29.75	1279.06	1261.83	1391.14	1425.47	1499.70	1516.97
serine palmitoyltransferase, long chain base subunit 3	Sptlc3	100770263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine palmitoyltransferase, small subunit B	Sptssb	100756147	0.12	0.17	0.20	0.11	0.09	0.18	6.84	9.15	11.18	4.64	6.21	8.41
SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae)	Spty2d1	100752246	7.59	7.82	7.00	7.08	7.44	7.63	1121.84	1160.26	1048.32	1048.82	1098.12	1131.88
spexin hormone	Spx	100773420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
spermatogenic leucine zipper 1	Spz1	100760713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfide quinone reductase-like (yeast)	Sqrdl	100770919	6.08	6.46	6.36	7.31	8.50	8.95	296.98	311.11	326.67	346.52	403.64	427.14
sequestosome 1	Sqstm1	100768352	76.67	73.23	108.89	96.30	82.72	91.83	3727.06	3572.29	5311.16	4679.72	3930.88	4379.86
steroid receptor RNA activator 1	Sra1	100753253	29.14	28.70	32.79	33.89	32.18	31.19	837.77	823.53	914.18	941.04	921.14	867.37
S1 RNA binding domain 1	Srbd1	100762977	12.27	13.04	14.02	15.91	18.28	17.23	1310.96	1407.32	1529.01	1693.18	1963.37	1823.54
v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog	Src	100757188	35.44	34.39	30.25	25.78	28.67	29.28	3781.75	3683.01	3248.06	2692.17	3000.43	3060.11
Snf2-related CREBBP activator protein	Srcap	100751782	6.72	6.59	7.05	7.21	6.69	7.03	2091.01	2070.72	2204.70	2226.29	2065.83	2212.36
SRC kinase signaling inhibitor 1	Srcin1	100764045	0.01	0.02	0.00	0.00	0.01	0.00	1.52	1.83	1.24	0.00	2.07	0.00
steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	Srd5a1	100761447	5.68	5.20	5.82	5.86	5.77	6.65	501.30	462.09	516.71	513.40	504.04	582.30
steroid 5 alpha-reductase 3	Srd5a3	100770660	8.19	8.69	7.17	8.97	8.33	8.85	432.94	453.86	371.38	463.57	445.04	466.40
sterol regulatory element binding transcription factor 1	Srebf1	100689018	1.46	1.34	1.66	0.77	0.85	0.74	168.62	157.39	180.10	92.71	96.25	85.05
sterol regulatory element binding transcription factor 2	Srebf2	100689017	50.28	50.89	65.28	63.55	41.90	46.46	3422.48	3362.75	4801.91	4500.09	3753.90	4181.71
splicing regulatory glutamine/lysine-rich protein 1	Srek1	100774662	21.23	19.34	19.76	20.79	21.72	19.57	2439.64	2286.67	2256.87	2417.51	2562.63	2399.30
SREK1-interacting protein 1	Srek1ip 1	100761587	20.24	19.57	15.21	14.28	14.85	14.11	801.31	779.61	607.38	559.76	587.87	560.80
serum response factor (c-fos serum response element-binding transcription factor)	Srf	100756170	19.03	18.16	16.56	14.82	10.65	11.64	1813.78	1761.44	1599.81	1426.63	1017.39	1121.60
serum response factor binding protein 1	Srfbp1	100773240	20.19	21.30	18.94	22.48	21.68	19.78	1084.62	1163.01	1049.56	1197.16	1160.22	1060.85
SLIT-ROBO Rho GTPase activating protein 1	Srgap1	100755954	2.35	2.18	2.90	3.13	3.16	2.80	291.66	270.85	353.99	384.76	385.01	337.42
SLIT-ROBO Rho GTPase activating protein 2	Srgap2	100758268	19.07	19.48	22.04	23.48	22.79	23.68	1979.36	1982.88	2217.13	2317.84	2229.36	2390.89

SLIT-ROBO Rho GTPase activating protein 3	Srgap3	100758603	2.19	2.26	1.81	1.91	3.17	2.75	346.35	395.29	309.28	330.29	533.02	469.20
serglycin	Srgn	100766582	23.18	26.46	23.91	26.66	28.22	27.79	33.42	22.88	22.36	15.07	17.59	8.41
sorcin	Sri	100751462	35.73	36.32	36.61	41.24	48.37	44.35	2185.95	2240.92	2280.47	2485.88	2868.98	2638.57
sarcalumenin	Srl	100769876	0.08	0.12	0.12	0.07	0.07	0.09	12.15	19.22	18.63	10.43	11.38	14.02
spermidine synthase	Srm	100756588	222.23	200.02	257.85	225.40	160.79	187.11	6813.07	6226.80	7979.17	6874.71	4965.86	5703.35
src-related kinase lacking C-terminal regulatory tyrosine and N-terminal myristylation sites	Srms	100766886	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	0.00	1.16	0.00	0.00
signal recognition particle 14kDa (homologous Alu RNA binding protein)	Srp14	100761457	99.80	101.62	100.96	95.20	97.50	90.15	1917.84	1942.62	1901.63	1756.92	1841.24	1678.67
signal recognition particle 19kDa	Srp19	100753807	39.31	34.87	34.26	36.16	42.93	34.29	611.43	552.68	545.28	569.03	672.74	535.57
signal recognition particle 54kDa	Srp54	100756776	68.19	66.27	67.42	80.97	80.31	73.66	2028.73	1967.32	2005.97	2259.89	2312.16	2117.03
signal recognition particle 68kDa	Srp68	100760316	65.66	66.36	66.29	64.50	52.51	58.79	6010.99	6149.03	6210.43	5911.65	4816.83	5341.64
signal recognition particle 72kDa	Srp72	100760440	94.78	94.53	92.97	103.10	104.74	100.39	8271.38	8267.33	8159.27	8914.41	9076.83	8774.68
signal recognition particle 9kDa	Srp9	103160754	67.35	66.43	65.05	66.91	74.20	75.35	1972.52	2001.18	1947.59	1980.59	2169.33	2204.89
SRSF protein kinase 1	Srpk1	100764390	34.63	35.26	37.80	39.10	36.52	36.94	4209.37	4302.49	4606.90	4670.45	4353.15	4400.42
SRSF protein kinase 2	Srpk2	100759043	18.08	19.33	19.70	22.11	24.55	22.24	1874.54	2068.89	2213.40	2505.58	2712.70	2463.79
SRSF protein kinase 3	Srpk3	100769696	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal recognition particle receptor (docking protein)	Srpr	100758562	88.59	86.27	98.66	96.85	91.36	98.20	7499.69	7328.50	8428.80	8153.00	7686.84	8323.23
sushi-repeat containing protein, X-linked	Srpx	100765667	37.95	36.07	39.52	43.32	47.09	46.94	1788.71	1727.58	1880.52	1993.34	2164.16	2150.67
sushi-repeat containing protein, X-linked 2	Srpx2	100750375	4.01	4.51	1.30	1.22	1.39	1.31	292.42	299.22	94.40	111.26	101.43	85.05
serine racemase	Srr	100765356	1.14	1.40	1.43	1.42	1.47	1.84	50.89	44.84	60.86	53.31	58.99	73.84
SRR1 domain containing	Srrd	100773911	16.75	18.57	16.01	16.08	15.58	15.91	542.31	583.79	506.77	545.85	522.67	520.61
serine/arginine repetitive matrix 1	Srrm1	100757992	39.24	41.53	35.49	34.73	32.27	33.31	4986.37	5309.94	4574.61	4437.50	4015.75	4211.62
serine/arginine repetitive matrix 2	Srrm2	100770675	76.03	75.30	72.87	76.76	71.11	70.20	18649.73	18554.13	18006.53	18901.98	16824.74	16848.36
serine/arginine repetitive matrix 4	Srrm4	100754359	0.00	0.03	0.00	0.00	0.02	0.02	0.76	4.58	0.00	0.00	1.03	0.93
serrate, RNA effector molecule	Srrt	100689205	33.61	33.34	32.27	27.89	25.69	27.73	1142.35	1120.92	1085.58	938.73	845.58	910.37
serine/arginine-rich splicing factor 1	Srsf1	100689086	248.02	257.66	234.53	231.93	236.06	234.28	19342.43	20107.86	18471.07	18213.58	18383.43	18389.63
serine/arginine-rich splicing factor 10	Srsf10	100755678	38.58	38.18	37.66	40.97	43.06	37.48	1165.89	1178.56	1240.84	1347.82	1450.02	1258.07
serine/arginine-rich splicing factor 11	Srsf11	100750677	54.28	53.63	58.30	57.15	57.82	57.40	4389.38	4362.88	4742.29	4647.27	4592.23	4656.52
serine/arginine-rich splicing factor 12	Srsf12	100768579	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serine/arginine-rich splicing factor 3	Srsf3	100753039	333.75	326.24	335.68	359.15	328.05	317.11	7534.63	7410.86	7712.12	8134.46	7690.98	7619.43
serine/arginine-rich splicing factor 4	Srsf4	100762302	25.02	23.53	22.39	19.67	17.51	17.54	2943.21	2780.79	2645.64	2327.11	2087.57	2103.01
serine/arginine-rich splicing factor 5	Srsf5	100757287	111.48	111.97	102.62	108.91	111.05	111.79	4815.48	4971.38	4552.25	4702.90	4837.53	4761.21
serine/arginine-rich splicing factor 6	Srsf6	100771875	80.50	80.62	85.94	86.48	89.61	90.47	7539.19	7558.18	8059.90	8088.10	8323.36	8486.80
serine/arginine-rich splicing factor 7	Srsf7	100758380	124.31	124.47	136.15	147.69	138.04	135.93	3901.75	3884.32	4307.56	4621.77	4314.86	4362.10
serine/arginine-rich splicing factor 9	Srsf9	100763712	27.61	27.80	31.91	31.83	36.12	36.04	745.87	741.18	853.31	852.97	957.36	960.84
sulfiredoxin 1	Srxn1	100759653	59.28	59.12	61.00	64.74	55.85	58.74	3234.12	3213.60	3343.70	3706.23	3219.84	3233.96
synovial sarcoma translocation, chromosome 18	Ss18	100768518	23.26	23.00	17.91	18.76	17.31	15.81	1032.21	1045.88	853.31	858.76	787.62	726.24
synovial sarcoma translocation gene on chromosome 18-like 1	Ss18l1	100769060	2.78	2.75	1.52	1.32	0.86	1.15	94.18	88.76	49.68	44.04	36.22	42.06
synovial sarcoma translocation gene on chromosome 18-like 2	Ss18l2	100771870	47.67	53.51	57.22	40.75	47.31	43.91	554.46	612.16	643.40	456.61	518.53	477.62

Sjogren syndrome antigen B (autoantigen La)	Ssb	100689103	136.58	140.01	133.37	153.23	150.80	135.98	5845.41	6175.56	5820.42	6459.82	6394.15	5611.76
single-stranded DNA binding protein 1, mitochondrial	Ssbp1	100772064	97.28	98.04	87.97	94.23	104.85	94.20	1618.58	1611.37	1452.00	1519.34	1703.59	1504.82
single-stranded DNA binding protein 2	Ssbp2	100753364	6.05	6.19	8.49	8.27	8.05	9.71	288.62	285.49	404.92	398.67	381.91	439.29
single stranded DNA binding protein 3	Ssbp3	100770485	24.84	22.08	25.69	23.27	20.67	21.46	1136.27	1044.05	1207.31	1069.68	1020.50	1050.57
single stranded DNA binding protein 4	Ssbp4	100768609	3.62	3.72	4.77	2.42	0.92	1.54	174.69	179.35	203.70	114.73	50.71	60.75
scavenger receptor cysteine rich domain containing (5 domains)	Ssc5d	100767781	0.69	0.69	0.68	0.58	0.35	0.78	39.50	35.69	36.02	31.29	18.63	37.39
sperm specific antigen 2	Ssfa2	100763197	15.66	15.97	17.41	19.25	21.06	20.99	2186.71	2241.83	2427.04	2689.85	2893.82	2886.26
slingshot protein phosphatase 1	Ssh1	100772936	3.61	4.26	4.28	3.78	3.48	3.06	434.46	501.44	506.77	441.55	404.68	364.52
slingshot protein phosphatase 2	Ssh2	100755577	6.22	6.31	5.88	6.10	5.68	6.03	811.95	829.94	778.79	801.97	752.44	795.40
slingshot protein phosphatase 3	Ssh3	100761968	5.84	4.84	6.98	5.30	4.67	5.13	489.14	415.43	576.33	458.93	400.54	430.88
serine-rich single-pass membrane protein 1	Ssmem 1	100756119	0.06	0.00	0.09	0.00	0.00	0.07	0.76	0.00	1.24	0.00	0.00	0.93
Sjogren syndrome nuclear autoantigen 1	Ssna1	100774925	65.04	62.36	57.35	52.71	35.43	41.93	1307.17	1257.26	1160.11	1059.25	720.35	841.20
sarcospan	Sspn	100758385	2.42	2.77	3.31	3.44	4.09	4.18	315.97	357.78	433.49	442.71	520.60	543.98
SCO-spondin	Sspo	100766298	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.00
signal sequence receptor, alpha	Ssr1	100767661	53.77	54.58	51.89	54.37	56.87	55.84	11926.28	12211.12	11674.37	12146.64	12536.79	12376.90
signal sequence receptor, beta (translocon-associated protein beta)	Ssr2	100758563	296.02	291.57	309.45	316.69	277.29	302.32	7926.55	7809.81	8338.13	8333.79	7334.95	8050.31
signal sequence receptor, gamma (translocon-associated protein gamma)	Ssr3	100759016	40.99	40.40	43.23	44.83	43.69	45.12	3259.94	3238.30	3416.98	3468.65	3324.38	3469.49
signal sequence receptor, delta	Ssr4	100751465	191.11	171.02	190.33	195.02	191.66	216.04	2759.41	2473.34	2772.34	2684.06	2650.60	2825.51
structure specific recognition protein 1	Ssrp1	100758773	160.80	167.09	194.03	210.86	207.53	206.65	12808.11	13343.02	15482.61	16432.33	16115.77	16065.10
Sjogren syndrome/scleroderma autoantigen 1	Sssca1	100771453	30.89	32.93	31.11	16.22	10.71	12.55	616.75	629.54	655.82	359.27	242.19	303.77
somatostatin	Sst	100774243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
somatostatin receptor 1	Sstr1	100766048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
somatostatin receptor 2	Sstr2	100753171	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
somatostatin receptor 3	Sstr3	100750645	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
somatostatin receptor 4	Sstr4	100765367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
somatostatin receptor 5	Sstr5	100774959	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSU72 RNA polymerase II CTD phosphatase homolog (S. cerevisiae)	Ssu72	100772289	74.05	74.43	82.37	76.80	79.49	83.97	1497.05	1488.76	1620.92	1415.04	1504.87	1564.64
ssu-2 homolog (C. elegans)	Ssuh2	100750359	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synovial sarcoma, X breakpoint 2 interacting protein	Ssx2ip	100759551	12.54	13.27	12.81	14.18	15.63	14.49	1237.29	1289.28	1255.75	1362.89	1489.35	1406.68
suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	St13	100763998	186.40	198.82	205.47	219.30	219.22	211.23	5427.67	5718.04	5822.90	6127.21	6152.99	5912.72
suppression of tumorigenicity 14 (colon carcinoma)	St14	100755225	6.92	6.53	7.66	7.07	6.36	6.76	674.47	643.27	751.46	693.03	636.52	665.48
suppression of tumorigenicity 18, zinc finger	St18	100764680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ST3 beta-galactoside alpha-2,3-sialyltransferase 1	St3gal1	100754088	39.42	38.78	35.10	33.35	29.00	33.30	643.33	680.78	727.86	744.03	607.54	761.76
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	St3gal2	100767717	12.80	12.72	13.29	11.52	11.33	12.02	1331.47	1296.60	1386.17	1271.34	1344.45	1339.38
ST3 beta-galactoside alpha-2,3-sialyltransferase 3	St3gal3	100689187	5.02	4.63	5.61	5.54	5.76	5.63	298.50	284.58	352.75	338.40	345.69	334.61
ST3 beta-galactoside alpha-2,3-sialyltransferase 4	St3gal4	100689440	12.65	12.62	21.04	21.83	20.79	22.19	619.78	628.63	1027.21	1014.05	999.80	1076.74
ST3 beta-galactoside alpha-2,3-sialyltransferase 5	St3gal5	100754838	6.31	5.92	4.60	4.15	4.85	5.59	382.05	364.18	276.99	252.64	284.62	339.29
ST3 beta-galactoside alpha-2,3-sialyltransferase 6	St3gal6	100771326	12.27	14.27	17.46	18.21	25.88	23.05	594.72	684.45	847.10	846.01	1193.34	1080.48
suppression of tumorigenicity 5	St5	100750899	11.76	11.82	11.94	11.78	10.82	11.70	1555.54	1541.83	1572.48	1520.50	1435.53	1492.67
ST6 beta-galactosamide alpha-2,6-sialyltranferase 1	St6gal1	100689389	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST6 beta-galactosamide alpha-2,6-sialyltranferase 2	St6gal2	100763756	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	St6galnac3	100762285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	St6galnac4	100759065	18.47	16.88	19.26	18.11	12.00	13.84	939.55	875.69	978.76	893.53	603.40	719.70
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5	St6galnac5	100759381	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.24	1.16	1.03	0.00
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	St6galnac6	100757138	6.64	6.46	7.22	6.60	6.12	6.81	502.81	485.88	567.63	502.97	459.53	498.18
suppression of tumorigenicity 7	St7	100752218	9.49	9.11	10.05	10.73	12.35	10.96	560.54	540.78	591.23	622.34	716.21	650.53
suppression of tumorigenicity 7 like	St7l	100760945	3.78	3.70	3.12	3.50	3.61	3.62	302.30	307.45	264.56	286.25	306.36	305.64
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	St8sia1	100768920	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2	St8sia2	100759559	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3	St8sia3	100764454	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	St8sia4	100689217	2.77	2.76	4.75	4.02	4.56	4.42	177.73	171.11	291.89	253.80	300.15	291.62
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5	St8sia5	100750766	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6	St8sia6	100774188	0.02	0.03	0.00	0.01	0.03	0.04	2.28	4.58	0.00	1.16	3.10	3.74
stabilin 1	Stab1	100763910	0.00	0.00	0.01	0.01	0.00	0.00	0.76	0.92	3.73	6.95	1.03	0.93
stabilin 2	Stab2	100774200	0.03	0.03	0.01	0.03	0.03	0.03	9.11	8.24	4.97	5.79	7.24	10.28
SH3 and cysteine rich domain	Stac	100770454	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH3 and cysteine rich domain 2	Stac2	100767258	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
stromal antigen 1	Stag1	100759452	23.53	24.37	10.45	11.93	14.01	13.86	2987.27	3039.74	1330.28	1513.55	1757.41	1749.70
stromal antigen 2	Stag2	100757438	29.31	28.64	28.57	34.72	39.35	36.48	4285.32	4247.59	4287.68	5146.76	5810.41	5316.40

stromal antigen 3	Stag3	100772292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	Stam	100772157	32.33	32.54	33.18	35.55	38.31	35.88	5136.76	5266.02	5314.89	5596.42	5963.59	5616.43
signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	Stam2	100774991	24.74	25.80	24.70	25.56	29.31	28.78	3060.18	3282.23	3101.49	3140.67	3589.33	3509.68
STAM binding protein	Stambp	100768281	16.89	17.60	15.91	16.53	19.47	19.08	1049.68	1095.30	984.97	1015.21	1191.27	1168.34
STAM binding protein-like 1	Stambpl 1	100758286	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.92	1.24	0.00	0.00	0.93
signal transducing adaptor family member 1	Stap1	100762465	0.21	0.28	0.25	0.15	0.08	0.16	12.91	13.73	12.42	9.27	5.17	6.54
signal transducing adaptor family member 2	Stap2	100755958	8.78	8.13	7.56	7.62	5.91	7.97	398.00	398.04	341.57	339.56	265.99	358.91
steroidogenic acute regulatory protein	Star	100771651	2.04	2.02	1.68	1.36	2.18	2.12	179.25	168.37	149.05	121.69	179.05	188.80
StAR-related lipid transfer (START) domain containing 10	Stard10	100774406	0.42	0.16	0.21	0.12	0.11	0.00	15.95	5.49	6.21	5.79	6.21	1.87
StAR-related lipid transfer (START) domain containing 13	Stard13	100757703	8.32	8.68	9.74	10.10	8.90	9.28	1359.58	1434.77	1623.41	1664.21	1452.09	1555.29
StAR-related lipid transfer (START) domain containing 3	Stard3	100759029	21.45	19.98	16.28	12.95	9.98	11.58	1317.80	1234.38	1003.61	777.64	608.57	682.31
STARD3 N-terminal like	Stard3nl	100767628	28.05	29.67	28.66	28.41	33.87	31.37	1048.92	1084.31	1048.32	1018.69	1224.39	1116.00
StAR-related lipid transfer (START) domain containing 4	Stard4	100774302	2.83	2.68	3.18	3.90	4.25	4.44	337.24	318.43	396.23	467.04	499.90	532.76
StAR-related lipid transfer (START) domain containing 5	Stard5	100767326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
StAR-related lipid transfer (START) domain containing 7	Stard7	100757954	41.32	40.91	46.50	48.81	48.72	49.09	2871.06	2872.29	3259.24	3388.68	3396.83	3414.35
StAR-related lipid transfer (START) domain containing 8	Stard8	100755250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
StAR-related lipid transfer (START) domain containing 9	Stard9	100769740	1.11	1.05	0.60	0.74	0.90	0.95	549.91	517.91	324.18	396.35	467.81	504.72
signal transducer and activator of transcription 1, 91kDa	Stat1	100755609	13.34	14.19	12.91	14.29	16.56	15.62	1456.04	1559.22	1507.89	1610.90	1871.26	1734.75
signal transducer and activator of transcription 2, 113kDa	Stat2	100764772	5.81	5.94	6.13	7.35	6.98	7.02	723.84	723.79	773.82	872.67	832.13	841.20
signal transducer and activator of transcription 3 (acute-phase response factor)	Stat3	100755865	20.96	20.29	11.93	11.18	10.22	10.01	1967.97	1925.23	1146.45	1092.86	968.75	968.32
signal transducer and activator of transcription 4	Stat4	100769249	0.04	0.05	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	1.03	0.00
signal transducer and activator of transcription 5A	Stat5a	100755571	9.15	9.11	6.87	5.47	4.84	5.76	613.71	635.03	488.14	418.37	375.70	461.73
signal transducer and activator of transcription 5B	Stat5b	100750571	10.91	10.93	8.05	8.27	7.11	7.58	1528.95	1561.96	1166.32	1197.16	993.59	1086.09
signal transducer and activator of transcription 6, interleukin-4 induced	Stat6	100753838	25.17	24.68	24.96	26.39	20.92	22.30	3076.89	3028.76	3087.83	3204.41	2551.24	2685.31
staufen double-stranded RNA binding protein 1	Stau1	100758464	44.62	44.73	48.41	48.66	50.26	49.87	3567.56	3583.27	3932.45	3980.89	4084.06	4035.90
staufen double-stranded RNA binding protein 2	Stau2	100771921	0.12	0.07	0.00	0.08	0.23	0.05	9.11	6.41	1.24	4.64	4.14	1.87
starch binding domain 1	Stbd1	100769936	14.00	13.01	12.24	12.77	3.99	4.29	137.48	114.38	111.79	115.89	22.77	20.56
stanniocalcin 1	Stc1	100772986	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

stanniocalcin 2	Stc2	100770621	45.18	42.80	48.70	47.34	51.80	53.22	4857.25	4615.43	5285.08	5083.02	5535.11	5751.02
six transmembrane epithelial antigen of the prostate 1	Steap1	100768056	37.77	37.48	36.47	38.22	45.73	46.29	1805.42	1777.91	1735.20	1809.07	2176.58	2212.36
STEAP family member 2, metalloreductase	Steap2	100768345	3.53	3.51	3.91	4.65	5.50	5.31	664.60	661.57	747.74	880.78	1033.95	1014.12
STEAP family member 3, metalloreductase	Steap3	100761057	0.00	0.01	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
STEAP family member 4	Steap4	100750411	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
SCL/TAL1 interrupting locus	Stil	100759008	9.57	10.15	11.67	13.19	13.93	14.28	1258.56	1323.14	1547.64	1738.38	1812.26	1890.84
stromal interaction molecule 1	Stim1	100761301	15.47	16.15	17.40	17.13	17.40	19.16	1753.02	1845.62	1991.07	1930.76	1978.89	2140.39
stromal interaction molecule 2	Stim2	100760300	24.91	25.20	33.30	37.30	36.21	34.68	2439.64	2450.46	3236.88	3594.97	3507.57	3366.68
stress-induced phosphoprotein 1	Stip1	100689413	115.16	120.89	149.58	153.73	152.12	152.37	6968.01	7388.90	9102.01	9135.77	9076.83	9055.08
serine/threonine kinase 10	Stk10	100769190	18.32	18.81	19.41	18.47	16.81	17.33	1861.63	1944.45	2014.66	1920.33	1717.04	1785.22
serine/threonine kinase 11	Stk11	100765813	68.71	64.87	63.72	48.27	30.48	34.62	2940.94	2778.04	2677.94	1984.07	1197.48	1321.62
serine/threonine kinase 11 interacting protein	Stk11ip	100767028	5.94	6.63	7.53	7.25	6.08	6.74	500.54	536.21	544.03	608.43	507.14	564.54
serine/threonine kinase 16	Stk16	100767978	39.41	36.87	36.98	37.60	32.56	35.55	1657.31	1538.17	1594.84	1554.11	1322.71	1454.35
serine/threonine kinase 17b	Stk17b	100753074	22.53	24.68	27.40	30.03	32.02	30.95	1870.75	2059.74	2307.80	2499.79	2621.62	2589.97
serine/threonine kinase 19	Stk19	100768271	22.24	20.22	22.35	15.55	9.34	11.69	624.34	593.86	654.58	460.09	280.48	333.68
serine/threonine kinase 24	Stk24	100761115	71.38	73.56	70.67	70.32	72.70	73.74	4566.35	4721.57	4562.18	4474.59	4628.46	4719.15
serine/threonine kinase 25	Stk25	100754386	71.92	70.24	75.98	73.54	63.71	69.60	3660.98	3563.14	3880.28	3781.56	3245.72	3576.05
serine/threonine kinase 3	Stk3	100763795	27.66	27.93	36.52	38.25	39.73	36.08	1188.68	1183.14	1538.95	1596.99	1636.31	1541.27
serine/threonine kinase 31	Stk31	100760461	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serine/threonine kinase 32A	Stk32a	100757359	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine kinase 32B	Stk32b	100751801	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine kinase 32C	Stk32c	100750736	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
serine/threonine kinase 33	Stk33	100752056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
serine/threonine kinase 35	Stk35	100750596	2.45	2.26	2.51	2.54	2.38	2.57	518.01	484.97	566.39	549.33	491.62	536.50
serine/threonine kinase 36	Stk36	100771030	1.14	1.29	1.36	1.44	1.72	1.43	169.38	184.84	207.43	217.88	271.17	234.60
serine/threonine kinase 38	Stk38	100752740	22.96	22.44	25.63	26.48	29.19	27.92	2163.17	2103.66	2448.15	2518.33	2763.41	2645.12
serine/threonine kinase 38 like	Stk38l	100756080	1.94	2.40	2.32	2.18	2.59	2.23	111.65	126.27	126.69	129.80	145.93	120.57
serine threonine kinase 39	Stk39	100762055	34.39	34.56	38.79	41.63	46.50	45.47	3063.98	3171.51	3516.35	3606.56	4128.56	3901.31
serine/threonine kinase 4	Stk4	100757702	34.86	35.61	32.05	34.09	41.07	40.05	5161.83	5299.87	4778.31	5072.59	6041.22	5969.74
serine/threonine kinase 40	Stk40	100764545	7.31	7.48	7.87	6.60	4.79	5.38	786.88	818.04	869.46	705.78	517.49	580.43
stathmin 1	Stmn1	100770568	187.13	201.20	243.12	241.13	265.86	253.83	4676.48	5007.98	6053.93	5897.74	6517.31	6309.96
stathmin 2	Stmn2	100752238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
stathmin-like 3	Stmn3	100761744	0.21	0.10	0.07	0.06	0.06	0.00	6.08	4.58	1.24	2.32	3.10	1.87
stathmin-like 4	Stmn4	100760889	0.00	0.06	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
stomatin	Stom	100753652	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
stomatin (EPB72)-like 1	Stoml1	100753204	6.50	6.73	7.15	5.58	5.35	6.17	524.08	545.36	587.51	442.71	426.41	483.22
stomatin (EPB72)-like 2	Stoml2	100769404	37.45	38.00	37.92	37.33	35.04	35.40	1332.99	1348.76	1330.28	1284.08	1225.42	1222.55
stomatin (EPB72)-like 3	Stoml3	100753947	0.00	0.00	0.00	0.00	0.00	0.05	0.76	0.00	1.24	0.00	0.00	0.93
stonin 1	Ston1	100769184	9.91	9.48	10.14	11.19	13.00	13.86	765.62	746.67	809.84	887.73	1013.25	1081.41
stonin 2	Ston2	100751060	0.15	0.16	0.15	0.14	0.19	0.12	22.79	26.54	19.87	17.38	28.98	18.69
storkhead box 1	Stox1	100771476	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
storkhead box 2	Stox2	100756787	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

sperm-tail PG-rich repeat containing 1	Stpg1	100757419	0.08	0.00	0.00	0.04	0.00	0.03	3.04	0.92	0.00	2.32	1.03	2.80
sperm-tail PG-rich repeat containing 2	Stpg2	100750831	0.09	0.22	0.15	0.28	0.19	0.28	3.80	9.15	4.97	5.79	6.21	5.61
stimulated by retinoic acid 13	Stra13	100769252	20.04	18.74	11.21	9.92	9.05	8.61	317.49	280.00	172.65	142.55	124.20	121.51
stimulated by retinoic acid 6	Stra6	100757023	0.06	0.03	0.00	0.00	0.00	0.00	3.80	2.75	0.00	0.00	0.00	0.93
stimulated by retinoic acid 8	Stra8	100763990	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
STE20-related kinase adaptor alpha	Strada	100774473	11.74	12.12	10.39	9.77	9.58	9.89	412.43	431.90	372.63	358.11	348.79	361.72
STE20-related kinase adaptor beta	Stradb	100756557	7.46	8.27	9.79	10.53	11.61	11.65	395.72	465.75	537.82	600.32	671.71	631.84
serine/threonine kinase receptor associated protein	Strap	100751262	193.48	193.93	194.60	194.40	204.32	213.13	12795.20	12936.74	12992.23	12862.85	13413.42	13917.23
spermatid perinuclear RNA binding protein	Strbp	100770548	25.83	24.70	24.50	28.55	29.05	27.07	2420.65	2345.23	2333.88	2701.44	2733.40	2547.91
stereocilin	Strc	100767154	0.00	0.01	0.00	0.00	0.01	0.02	0.76	0.92	0.00	0.00	2.07	3.74
striatin interacting protein 1	Strip1	100768584	19.83	18.66	17.66	19.47	17.29	18.94	1871.50	1807.19	1678.06	1819.50	1634.24	1824.48
striatin interacting protein 2	Strip2	100762591	30.01	30.19	32.43	36.62	36.74	36.89	3383.75	3488.11	3710.11	4123.44	4237.23	4241.53
striatin, calmodulin binding protein	Strn	100766324	5.53	5.14	5.41	6.21	6.70	6.26	1310.96	1238.96	1302.95	1485.74	1590.77	1494.54
striatin, calmodulin binding protein 3	Strn3	100765220	20.13	20.99	17.46	21.09	21.84	20.82	2021.89	2090.85	1750.10	2119.66	2176.58	2048.80
striatin, calmodulin binding protein 4	Strn4	100763615	33.88	31.06	34.66	24.50	15.59	17.87	2358.37	2227.19	2430.76	1744.17	1140.55	1306.67
STT3A, subunit of the oligosaccharyltransferase complex (catalytic)	Stt3a	100751391	52.61	51.09	57.17	61.87	64.95	65.40	6168.22	6067.59	6781.79	7260.63	7624.74	7601.67
STT3B, subunit of the oligosaccharyltransferase complex (catalytic)	Stt3b	100752084	53.07	54.40	62.34	66.63	66.38	65.66	5816.55	5981.57	6901.03	7288.45	7224.20	7153.96
STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	Stub1	100760778	57.84	55.44	100.03	89.00	74.36	84.02	1080.82	1080.65	1715.32	1469.51	1297.87	1429.11
syntaxin 11	Stx11	100757009	7.48	7.27	8.12	6.23	7.85	8.00	378.25	370.59	418.58	315.23	399.50	406.58
syntaxin 12	Stx12	100773207	39.91	42.42	43.25	43.91	49.79	50.83	2670.54	2837.52	2895.30	2918.16	3289.19	3335.84
syntaxin 16	Stx16	100767343	28.18	26.51	24.75	24.64	29.35	28.17	3313.11	3148.63	2925.11	2833.56	3282.98	3197.51
syntaxin 17	Stx17	100751748	6.23	6.17	5.77	6.27	6.86	7.20	476.23	499.61	465.78	490.22	545.44	576.69
syntaxin 18	Stx18	100772503	17.21	16.73	17.24	17.56	17.71	18.88	1070.19	1054.12	1066.95	1072.00	1073.28	1142.17
syntaxin 19	Stx19	100768974	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	1.03	2.80
syntaxin 1A (brain)	Stx1a	100759989	3.92	3.84	3.89	3.68	3.34	3.16	318.25	318.43	303.07	276.98	264.96	252.36
syntaxin 1B	Stx1b	100754547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
syntaxin 2	Stx2	100768784	4.62	4.28	4.90	4.84	5.74	5.99	394.20	365.10	413.61	411.42	477.13	494.44
syntaxin 3	Stx3	100757185	3.28	3.68	3.55	3.36	3.48	3.74	182.29	205.88	209.91	197.02	201.82	213.10
syntaxin 4	Stx4	100754836	52.89	50.96	63.91	62.75	54.75	58.85	1947.46	1847.45	2314.01	2200.79	1947.84	2080.57
syntaxin 5	Stx5	100756021	39.91	42.43	45.73	45.38	40.07	40.90	1352.74	1457.65	1576.21	1543.68	1356.87	1411.35
syntaxin 6	Stx6	100753913	27.88	27.32	27.32	27.24	25.81	28.08	2090.25	2061.57	2046.96	2059.40	1936.46	2119.83
syntaxin 7	Stx7	100758402	13.49	12.92	5.81	5.84	8.47	8.24	840.81	801.57	349.03	368.54	529.91	519.68
syntaxin 8	Stx8	100774833	20.38	20.05	24.41	24.56	21.73	25.97	381.29	387.06	424.79	418.37	427.45	475.75
syntaxin binding protein 1	Stxbp1	100761087	6.35	6.36	7.49	7.75	7.77	8.64	502.81	513.33	616.08	626.98	643.76	743.06
syntaxin binding protein 2	Stxbp2	100768736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
syntaxin binding protein 3	Stxbp3	100757848	19.03	20.90	21.95	21.87	25.61	23.28	1423.38	1569.28	1612.23	1615.53	1846.42	1696.43
syntaxin binding protein 4	Stxbp4	100758822	2.28	2.43	0.94	0.99	1.52	1.57	420.78	456.60	182.59	180.79	277.38	281.34
syntaxin binding protein 5 (tomosyn)	Stxbp5	100761348	6.10	6.09	6.21	6.88	7.66	7.37	1087.66	1107.19	1110.43	1231.93	1346.52	1299.19

syntaxin binding protein 5-like	Stxbp5l	100763299	0.00	0.01	0.00	0.00	0.01	0.00	0.76	0.92	1.24	0.00	1.03	1.87
syntaxin binding protein 6 (amisyn)	Stxbp6	100762497	13.99	13.72	11.98	13.75	14.89	15.12	1551.74	1528.11	1337.73	1521.66	1615.61	1663.71
serine/threonine/tyrosine kinase 1	Styk1	100774702	0.07	0.04	0.02	0.04	0.05	0.06	12.15	11.90	4.97	15.07	8.28	18.69
serine/threonine/tyrosine interacting protein	Styx	100762262	6.86	7.45	4.98	6.38	6.17	6.03	714.73	807.06	570.12	683.76	641.69	658.01
serine/threonine/tyrosine interacting-like 1	Styxl1	100757874	0.34	0.38	0.28	0.45	0.20	0.27	18.99	18.30	13.66	20.86	8.28	15.89
SUB1 homolog (S. cerevisiae)	Sub1	100773803	149.13	140.50	121.43	124.38	130.44	134.05	2994.10	2862.22	2510.26	2558.90	2565.73	2692.78
succinate-CoA ligase, ADP-forming, beta subunit	Sucla2	100761589	151.73	147.14	149.56	165.85	181.04	181.05	3274.37	3186.15	3256.75	3372.46	3853.25	3852.71
succinate-CoA ligase, alpha subunit	Suclg1	100751457	120.60	124.17	123.32	120.51	115.80	122.36	4090.12	4243.93	4185.83	3987.84	3867.74	4083.57
succinate-CoA ligase, GDP-forming, beta subunit	Suclg2	100752265	116.83	119.22	118.57	131.02	123.08	126.01	6446.97	6656.87	6586.79	7173.71	6799.86	6862.34
succinate receptor 1	Sucnr1	100771524	0.15	0.10	0.07	0.06	0.06	0.09	9.11	5.49	3.73	3.48	5.17	6.54
SUN domain containing ossification factor	Suco	100753995	12.19	12.36	11.05	12.62	12.82	11.22	1942.90	1952.68	1767.49	1997.98	2024.43	1790.83
suppressor of defective silencing 3 homolog (S. cerevisiae)	Suds3	100758994	31.36	31.23	37.10	38.13	39.62	40.49	3015.37	3031.51	3597.08	3569.47	3684.55	3777.00
suppressor of fused homolog (Drosophila)	Sufu	100753058	12.61	10.92	11.50	11.35	9.70	11.18	969.93	878.43	896.79	852.97	733.81	844.94
succinylCoA:glutarate-CoA transferase	Sugct	100770206	0.86	1.01	0.67	0.72	0.68	0.57	56.97	72.29	40.99	39.40	38.29	35.52
SURP and G patch domain containing 1	Sugp1	100763754	26.73	24.48	21.73	19.11	15.59	16.84	1670.23	1529.02	1353.87	1200.64	996.69	1088.89
SURP and G patch domain containing 2	Sugp2	100754204	3.58	3.42	3.60	2.85	2.79	3.21	411.67	393.46	399.95	327.97	307.39	346.76
SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)	Sugt1	100754047	213.22	217.44	211.51	201.62	197.29	199.86	3259.18	3356.34	3136.27	3094.32	3236.40	3234.89
sulfatase 1	Sulf1	100764289	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
sulfatase 2	Sulf2	100772828	18.26	18.50	8.17	7.91	5.15	5.47	2860.42	2929.02	1223.46	1161.24	720.35	786.06
sulfotransferase family, cytosolic, 1B, member 1	Sult1b1	100764411	0.00	0.04	0.00	0.00	0.00	0.04	0.00	1.83	0.00	0.00	0.00	0.93
sulfotransferase family, cytosolic, 1C, member 2	Sult1c2	100759668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfotransferase family, cytosolic, 1C, member 3	Sult1c3	100759957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfotransferase family, cytosolic, 2B, member 1	Sult2b1	100774216	0.44	0.43	0.05	0.14	0.08	0.18	12.91	10.98	2.48	3.48	3.10	4.67
sulfotransferase family 4A, member 1	Sult4a1	100773186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfotransferase family, cytosolic, 6B, member 1	Sult6b1	100757336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfatase modifying factor 1	Sumf1	100766494	23.46	24.59	29.42	27.49	24.90	25.85	1210.71	1281.96	1538.95	1421.99	1276.14	1320.69
sulfatase modifying factor 2	Sumf2	100754619	36.63	37.01	41.22	38.80	36.92	39.91	1787.96	1823.66	2010.94	1872.81	1766.72	1919.81
small ubiquitin-like modifier 1	Sumo1	100767238	88.52	89.57	86.37	88.54	89.93	91.29	2975.87	3051.64	2952.44	2973.79	3010.78	2957.29
small ubiquitin-like modifier 2	Sumo2	100689105	156.73	162.76	190.85	194.07	215.10	205.42	3084.49	3199.87	3764.77	3767.65	4172.03	4002.26
small ubiquitin-like modifier 3	Sumo3	100765708	23.60	24.32	35.23	36.40	35.18	36.34	1171.21	1206.01	1747.62	1803.28	1734.64	1786.15
Sad1 and UNC84 domain containing 1	Sun1	100769590	32.83	33.93	35.56	35.99	37.13	37.71	4138.73	4321.70	4568.40	4577.73	4679.17	4729.43
Sad1 and UNC84 domain containing 2	Sun2	100773056	49.23	47.86	58.59	54.83	47.98	53.64	5374.50	5234.91	6455.13	5938.31	5217.37	5866.92

Sad1 and UNC84 domain containing 3	Sun3	100753563	0.25	0.07	0.05	0.00	0.00	0.00	6.08	3.66	1.24	0.00	0.00	0.93
Sad1 and UNC84 domain containing 5	Sun5	100759609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sulfite oxidase	Suox	100768542	6.42	6.99	9.70	8.28	9.40	9.13	378.25	421.83	577.57	491.38	562.00	532.76
suppressor of Ty 16 homolog (S. cerevisiae)	Supt16h	100750703	94.97	98.93	97.33	106.40	105.20	97.97	11974.90	12598.18	12361.25	13261.52	13129.84	12261.93
suppressor of Ty 20 homolog (S. cerevisiae)	Supt20h	100769517	23.76	23.73	20.84	20.96	23.08	20.95	2318.87	2326.02	2074.29	2082.58	2245.92	2095.53
suppressor of Ty 3 homolog (S. cerevisiae)	Supt3h	100753625	39.83	41.86	42.17	39.33	38.14	39.10	1205.39	1287.45	1274.38	1143.85	1157.11	1186.10
suppressor of Ty 4 homolog 1 (S. cerevisiae)	Supt4h1	100752824	93.60	91.88	52.43	52.12	46.32	47.03	1769.73	1740.39	983.73	963.06	868.35	864.57
suppressor of Ty 5 homolog (S. cerevisiae)	Supt5h	100761749	52.50	50.49	51.49	46.22	33.38	37.69	6120.37	5886.41	6001.76	5315.97	3887.41	4400.42
suppressor of Ty 6 homolog (S. cerevisiae)	Supt6h	100761229	90.09	90.51	93.13	97.31	90.88	95.47	15544.73	15626.03	16144.64	16678.02	15557.91	16409.06
suppressor of Ty 7 (S. cerevisiae)-like	Supt7l	100757081	7.66	7.77	7.75	7.86	8.38	8.31	892.46	893.99	900.51	912.07	965.64	971.12
suppressor of var1, 3-like 1 (S. cerevisiae)	Supv3l1	100765993	25.19	24.62	26.67	28.23	28.33	27.52	1789.47	1774.25	1927.72	2030.43	2008.91	1957.20
surfeit 1	Surf1	100770865	12.48	12.14	16.03	16.58	19.96	19.73	334.96	343.14	454.60	447.34	514.39	521.55
surfeit 2	Surf2	100770577	71.44	68.95	69.35	66.56	59.18	58.29	2794.34	2745.10	2865.49	2692.17	2374.26	2408.64
surfeit 4	Surf4	100772015	59.47	58.60	70.72	71.88	71.68	73.25	2215.58	2239.09	2726.38	2706.08	2489.14	2665.68
surfeit 6	Surf6	100771435	30.47	29.17	26.04	22.73	15.94	17.90	1136.27	1085.23	982.49	837.90	603.40	666.42
sushi domain containing 1	Susd1	100771406	0.26	0.30	0.07	0.08	0.06	0.10	25.06	33.86	6.21	10.43	7.24	13.09
sushi domain containing 2	Susd2	100764387	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
sushi domain containing 3	Susd3	100756549	0.00	0.05	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
sushi domain containing 4	Susd4	100771822	0.48	0.29	0.05	0.13	0.10	0.10	36.46	25.62	4.97	10.43	13.45	7.48
sushi domain containing 5	Susd5	100766864	0.02	0.00	0.03	0.02	0.00	0.00	1.52	0.00	1.24	1.16	0.00	0.00
suppressor of variegation 3-9 homolog 1 (Drosophila)	Suv39h1	100764568	10.06	9.37	11.70	11.54	10.64	11.73	473.19	444.71	560.18	582.94	487.48	545.85
suppressor of variegation 3-9 homolog 2 (Drosophila)	Suv39h2	100755145	7.06	7.95	8.02	8.60	10.71	8.80	544.59	607.58	624.77	645.52	822.81	685.11
suppressor of variegation 4-20 homolog 1 (Drosophila)	Suv420h1	100761878	15.72	15.26	22.79	25.09	24.52	24.66	900.05	829.02	1237.12	1303.78	1340.31	1316.95
suppressor of variegation 4-20 homolog 2 (Drosophila)	Suv420h2	100772952	1.92	2.27	1.98	1.23	0.92	1.35	75.19	86.01	88.19	53.31	35.19	54.21
SUZ12 polycomb repressive complex 2 subunit	Suz12	100771055	18.88	17.87	17.47	20.88	21.66	19.64	2154.81	2035.95	2005.97	2369.99	2452.92	2261.90
synaptic vesicle glycoprotein 2A	Sv2a	100759214	0.03	0.04	0.00	0.01	0.02	0.02	3.80	5.49	0.00	1.16	2.07	1.87
synaptic vesicle glycoprotein 2B	Sv2b	100767798	0.24	0.39	0.46	0.66	1.17	1.07	13.67	13.73	18.63	26.66	42.43	38.32
synaptic vesicle glycoprotein 2C	Sv2c	100758927	0.04	0.02	0.00	0.00	0.09	0.03	4.56	0.92	0.00	0.00	5.17	4.67
sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	Svep1	100755877	0.00	0.00	0.01	0.01	0.00	0.00	3.80	0.00	2.48	3.48	2.07	0.93
supervillin	Svil	100762636	2.44	2.35	2.31	2.36	2.84	3.00	489.14	473.99	459.57	462.41	562.00	588.84
small VCP/p97-interacting protein	Svip	100765826	0.00	0.07	0.00	0.06	0.03	0.12	0.00	4.58	0.00	2.32	2.07	4.67
SV2 related protein homolog (rat)	Svop	100754019	0.00	0.00	0.00	0.03	0.05	0.00	4.56	8.24	1.24	4.64	4.14	4.67
SVOP-like	Svopl	100771683	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
SWAP switching B-cell complex 70kDa subunit	Swap70	100752959	43.65	42.61	35.26	33.69	23.06	23.44	4872.44	4812.16	3994.55	3774.60	2570.91	2628.29

SWI5 recombination repair homolog (yeast)	Swi5	100754454	95.88	96.71	100.58	100.45	108.60	108.97	1222.86	1228.89	1249.54	1211.07	1336.17	1337.51
SWIM-type zinc finger 7 associated protein 1	Swsap1	100754673	12.37	11.86	13.00	12.12	8.58	9.91	477.75	447.45	501.80	463.57	326.02	386.02
SWT1 RNA endoribonuclease homolog (S. cerevisiae)	Swt1	100752723	2.48	2.55	2.80	3.51	3.59	3.51	254.45	268.10	270.77	365.06	361.21	346.76
synapse associated protein 1	Syap1	100752457	14.75	15.81	16.52	18.16	19.17	17.29	774.73	863.79	898.03	971.17	1075.35	938.41
syntabulin (syntaxin-interacting)	Sybu	100769191	0.09	0.08	0.11	0.04	0.03	0.14	6.84	8.24	11.18	9.27	6.21	11.22
synaptonemal complex central element protein 1	Syce1	100766479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptonemal complex central element protein 1-like	Syce1l	100762903	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	1.24	0.00	0.00	0.93
synaptonemal complex central element protein 2	Syce2	103161434	0.25	0.15	0.20	0.49	0.43	0.23	3.80	3.66	12.42	12.75	12.42	5.61
synaptonemal complex central element protein 3	Syce3	100769741	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptonemal complex protein 1	Sycp1	100752914	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
synaptonemal complex protein 2	Sycp2	100771640	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptonemal complex protein 2-like	Sycp2l	100764575	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
synaptonemal complex protein 3	Sycp3	100771868	0.00	0.00	0.00	0.00	0.00	0.00	15.95	14.64	14.91	35.93	28.98	22.43
synapse defective 1, Rho GTPase, homolog 1 (C. elegans)	Syde1	100752146	14.34	13.95	17.73	15.11	11.42	12.84	1442.36	1410.98	1822.14	1517.03	1138.48	1278.63
synapse defective 1, Rho GTPase, homolog 2 (C. elegans)	Syde2	100753976	2.44	2.61	2.75	2.55	2.79	2.44	296.22	327.58	339.09	341.88	349.83	303.77
SYF2 pre-mRNA-splicing factor	Syf2	100753464	92.81	93.28	98.35	101.09	112.05	112.81	2793.59	2806.41	2963.62	2984.22	3312.99	3345.18
spleen tyrosine kinase	Syk	100758656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
symplekin	Sympk	100758374	27.16	25.91	32.41	26.72	16.81	19.23	2325.71	2256.47	2876.67	2294.66	1469.68	1661.84
synapsin I	Syn1	100766138	0.00	0.00	0.04	0.00	0.00	0.00	12.91	3.66	4.97	8.11	3.10	4.67
synapsin II	Syn2	100754325	7.73	7.51	6.55	7.08	8.59	9.00	1129.43	1101.70	973.80	1032.60	1262.68	1287.04
synapsin III	Syn3	100751566	0.40	0.43	0.14	0.21	0.07	0.11	14.43	18.30	7.45	12.75	6.21	8.41
syncoilin, intermediate filament protein	Sync	100757588	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
synaptotagmin binding, cytoplasmic RNA interacting protein	Syncrip	100758906	136.72	141.77	71.90	72.59	75.49	74.60	12900.01	13322.89	6816.57	6881.67	7066.89	7074.51
synapse differentiation inducing 1	Syndig1	100766290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synapse differentiation inducing 1-like	Syndig1l	100768970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
spectrin repeat containing, nuclear envelope 1	Syne1	100768768	19.23	19.33	17.81	18.25	16.13	16.43	8130.11	8205.11	7705.91	7830.82	7166.25	7168.92
spectrin repeat containing, nuclear envelope 2	Syne2	100767452	16.27	15.57	17.40	20.97	18.43	17.54	5275.76	5332.82	6442.70	7600.20	7264.57	7076.38
spectrin repeat containing, nuclear envelope family member 3	Syne3	100767878	10.39	10.57	6.20	5.54	5.33	6.14	1073.23	1125.49	664.52	599.16	584.77	657.07
spectrin repeat containing, nuclear envelope family member 4	Syne4	100754127	0.72	0.87	0.73	0.31	0.34	0.40	27.34	31.11	27.33	15.07	11.38	15.89
synaptic Ras GTPase activating protein 1	Syngap 1	100752061	4.27	4.45	5.36	4.73	4.28	4.29	903.85	906.80	1148.93	968.86	844.55	851.48
synaptogyrin 2	Syngr2	100773495	73.10	72.50	84.54	81.65	62.35	63.21	2794.34	2761.57	3236.88	3066.50	2324.58	2373.13
synaptogyrin 3	Syngr3	100767759	0.29	0.38	0.36	0.34	0.15	0.27	14.43	19.22	19.87	17.38	8.28	13.09
synaptogyrin 4	Syngr4	100774520	0.42	0.29	0.42	0.30	0.27	0.44	23.55	15.56	17.39	12.75	11.38	26.17
synaptojanin 1	Synj1	100757174	13.20	13.50	13.36	14.27	15.57	15.79	2515.59	2600.53	2586.02	2681.74	2864.84	2995.62

synaptojanin 2	Synj2	100774472	4.95	5.42	5.04	5.08	5.04	4.31	642.57	698.17	634.71	653.63	643.76	554.26
synemin, intermediate filament protein	Synm	100769976	0.38	0.37	0.15	0.20	0.38	0.44	79.75	80.52	32.29	42.88	77.62	91.60
synaptopodin	Synpo	100767004	0.53	0.72	0.50	0.39	0.19	0.29	66.08	89.67	60.86	45.20	23.80	35.52
synaptopodin 2	Synpo2	100753383	0.09	0.06	0.01	0.01	0.02	0.02	11.39	6.41	1.24	1.16	2.07	2.80
synaptopodin 2-like	Synpo2l	100757374	0.00	0.03	0.02	0.00	0.16	0.01	0.00	1.83	1.24	2.32	3.10	3.74
synaptoporin	Synpr	100752738	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
synaptophysin	Syp	100758282	0.10	0.03	0.00	0.00	0.00	0.03	6.08	1.83	0.00	0.00	0.00	0.93
synaptophysin-like 1	Sypl1	100759493	31.29	29.94	36.63	37.67	44.09	43.64	1642.12	1594.90	1966.22	2008.41	2348.38	2302.09
synaptophysin-like 2	Sypl2	100750429	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.24	0.00	0.00	0.00
SYS1 Golgi-localized integral membrane protein homolog (S. cerevisiae)	Sys1	100764663	34.08	34.42	33.25	27.63	24.00	25.21	1768.97	1807.19	1791.09	1527.46	1467.61	1547.81
synaptotagmin I	Syt1	100753843	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	2.48	1.16	0.00	1.87
synaptotagmin XI	Syt11	100756419	1.25	1.11	0.97	1.03	1.21	1.17	28.86	47.58	47.20	39.40	44.50	43.93
synaptotagmin XII	Syt12	100760230	0.01	0.01	0.00	0.00	0.00	0.01	0.76	2.75	0.00	1.16	1.03	2.80
synaptotagmin XIII	Syt13	100773481	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin XIV	Syt14	100765116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin XV	Syt15	100759659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
synaptotagmin XVI	Syt16	100768328	0.06	0.12	0.01	0.07	0.00	0.02	6.08	9.15	1.24	5.79	0.00	1.87
synaptotagmin XVII	Syt17	100770209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin II	Syt2	100761723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	1.87
synaptotagmin III	Syt3	100755305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin IV	Syt4	100773453	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin V	Syt5	100765097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin VI	Syt6	100762050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin VII	Syt7	100771245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin VIII	Syt8	100770470	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
synaptotagmin IX	Syt9	100763915	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
synaptotagmin-like 1	Sytl1	100760427	0.00	0.04	0.00	0.00	0.00	0.00	1.52	1.83	1.24	0.00	0.00	0.00
synaptotagmin-like 2	Sytl2	100761295	0.09	0.05	0.06	0.14	0.02	0.02	10.63	4.58	7.45	15.07	2.07	2.80
synaptotagmin-like 3	Sytl3	100760902	0.03	0.00	0.00	0.00	0.02	0.00	1.52	0.00	0.00	0.00	2.07	0.00
synaptotagmin-like 4	Sytl4	100770139	4.87	4.97	4.76	5.19	6.58	6.62	535.48	558.17	544.03	580.62	728.63	732.78
synaptotagmin-like 5	Sytl5	100761117	0.00	0.00	0.02	0.00	0.00	0.00	1.52	0.92	1.24	0.00	0.00	1.87
synovial apoptosis inhibitor 1, synoviolin	Syvn1	100765313	11.15	11.13	10.88	9.09	8.10	8.36	1029.18	1029.41	1012.30	865.71	754.51	792.60
SUZ RNA binding domain containing 1	Szrd1	100774832	68.65	67.10	64.24	46.71	36.69	37.87	1862.39	1900.52	1858.16	1484.58	1260.61	1279.56
seizure threshold 2 homolog (mouse)	Szt2	100766694	4.05	3.97	3.92	4.01	3.30	3.58	1452.24	1421.05	1454.48	1434.74	1201.62	1287.04
T, brachyury homolog (mouse)	T	100755407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trace amine associated receptor 1	Taar1	100754448	0.10	0.04	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	0.00	0.00
trace amine associated receptor 5	Taar5	100751489	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trace amine associated receptor 6	Taar6	100751776	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TGF-beta activated kinase 1/MAP3K7 binding protein 1	Tab1	100771613	7.31	6.84	7.25	6.26	5.09	5.77	1279.82	1217.91	1291.77	1102.13	900.44	1021.59
TGF-beta activated kinase 1/MAP3K7 binding protein 2	Tab2	100759882	43.17	42.53	44.21	49.66	47.18	44.78	5120.05	5088.50	5306.19	5925.56	5556.84	5344.44

TGF-beta activated kinase 1/MAP3K7 binding protein 3	Tab3	100752839	4.39	5.16	4.86	5.59	5.80	5.64	811.19	964.45	912.93	1037.23	1069.14	1066.46
tachykinin, precursor 1	Tac1	100760914	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tachykinin 3	Tac3	100762356	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	2.48	0.00	0.00	0.00
tachykinin 4 (hemokinin)	Tac4	100761569	0.56	0.68	0.39	0.53	0.47	0.75	34.18	43.92	26.08	32.45	35.19	43.93
transforming, acidic coiled-coil containing protein 1	Tacc1	100754086	13.35	13.64	11.02	11.94	14.44	13.60	2830.80	2867.72	2355.00	2521.81	3018.02	2888.13
transforming, acidic coiled-coil containing protein 3	Tacc3	100765245	26.69	26.43	32.20	31.89	33.35	31.59	1633.01	1674.51	2005.97	1953.94	2021.33	1924.48
tachykinin receptor 1	Tacr1	100765399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tachykinin receptor 2	Tacr2	100765124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tachykinin receptor 3	Tacr3	100751020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor-associated calcium signal transducer 2	Tacstd2	100758026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcriptional adaptor 1	Tada1	100768714	8.71	9.87	10.50	10.98	11.96	12.23	565.86	632.29	670.73	697.67	766.92	784.19
transcriptional adaptor 2A	Tada2a	100767795	11.47	11.43	6.43	7.03	7.23	7.13	826.38	840.92	467.02	505.29	510.25	502.85
transcriptional adaptor 2B	Tada2b	100768678	6.20	5.67	7.08	6.79	6.52	6.89	601.56	544.44	681.91	660.58	624.10	677.64
transcriptional adaptor 3	Tada3	100755727	14.91	15.32	15.87	14.15	10.81	12.17	834.73	875.69	910.45	798.50	610.64	682.31
TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa	Taf1	100751131	43.28	42.93	38.69	37.88	32.16	36.31	2529.27	2490.72	2569.88	2750.12	2834.83	2767.56
TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30kDa	Taf10	100760931	112.82	110.15	121.31	133.66	123.26	136.59	1035.25	1009.28	1068.19	1131.11	1086.74	1164.60
TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa	Taf11	100758577	26.24	31.06	32.46	31.30	35.40	34.91	951.70	1001.05	1122.85	1081.27	1129.17	1126.28
TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 20kDa	Taf12	100769367	19.61	18.66	20.72	19.55	20.19	20.35	641.81	619.48	671.97	607.27	639.62	646.79
TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa	Taf13	100766831	24.90	22.35	23.85	26.22	27.65	26.63	799.79	733.86	773.82	861.08	930.45	881.39
TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa	Taf15	100752254	59.57	59.65	28.14	29.20	30.02	28.91	3411.85	3517.39	1670.61	1708.25	1752.23	1668.39
TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa	Taf1a	100773180	18.70	17.84	15.48	15.86	17.82	17.00	1162.85	1097.13	970.07	988.56	1080.53	1057.11
TATA box binding protein (TBP)-associated factor, RNA polymerase I, B, 63kDa	Taf1b	100752844	9.26	9.12	9.63	11.60	10.79	11.47	560.54	560.00	581.30	693.03	657.22	672.03
TATA box binding protein (TBP)-associated factor, RNA polymerase I, C, 110kDa	Taf1c	100774138	6.86	7.04	6.64	5.16	3.13	3.18	661.56	694.51	673.21	505.29	305.32	325.27
TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa	Taf1d	100753646	47.15	49.35	42.20	53.54	57.25	49.19	3128.54	3062.62	2841.89	3567.16	3729.06	3312.47
TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 150kDa	Taf2	103158645	11.69	12.95	9.73	10.62	11.30	11.93	213.43	240.65	181.34	194.70	202.86	221.52

TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 140kDa	Taf3	100760532	10.76	11.17	12.25	12.36	12.83	12.35	1466.67	1530.85	1680.54	1678.12	1723.25	1662.78
TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa	Taf4	100769929	14.43	14.66	11.58	10.04	10.26	10.20	1017.78	1040.39	835.92	705.78	715.18	721.57
TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa	Taf4b	100768814	12.97	14.12	12.65	12.82	13.11	12.59	938.79	988.24	891.82	924.82	931.49	901.96
TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa	Taf5	100754264	4.21	4.07	4.10	4.17	4.63	4.50	508.89	493.20	495.59	513.40	565.10	556.13
TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa	Taf5l	100768389	33.17	34.19	29.59	30.05	22.62	26.23	1505.41	1541.83	1357.60	1329.28	995.66	1187.03
TAF6 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 80kDa	Taf6	100775090	26.47	25.89	31.70	30.51	23.45	25.30	1968.73	1955.43	2378.60	2284.23	1790.53	1922.62
TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa	Taf6l	103159405	18.47	17.67	19.85	16.67	12.15	14.55	1018.54	1005.62	1151.41	1010.58	770.03	869.24
TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa	Taf7	100689466	10.00	10.78	12.88	13.83	14.47	13.84	309.13	333.07	398.71	423.01	438.83	446.77
TAF7-like RNA polymerase II, TATA box binding protein (TBP)-associated factor, 50kDa	Taf7l	100751833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TAF8 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 43kDa	Taf8	100766320	17.10	18.00	15.91	16.41	15.88	16.89	1200.83	1256.34	1209.79	1197.16	1206.79	1227.22
TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	Taf9	103158543	116.03	119.19	112.37	118.49	124.05	115.78	2861.94	2961.96	2748.74	2870.64	3049.07	2821.77
TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa	Taf9b	100767965	1.55	1.71	0.83	1.33	1.71	1.55	116.21	128.10	67.07	100.83	130.41	118.70
T-cell activation RhoGTPase activating protein	Tagap	100761957	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
transgelin	Tagln	100761018	8.09	8.69	5.40	6.74	5.48	5.46	285.59	305.62	191.28	236.42	192.51	193.48
transgelin 2	Tagln2	100771092	213.24	205.03	161.47	160.86	145.82	156.44	7902.25	7662.49	6017.91	5924.40	5405.73	5760.37
transgelin 3	Tagln3	100764031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell acute lymphocytic leukemia 1	Tal1	100766563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell acute lymphocytic leukemia 2	Tal2	100761803	0.39	0.37	0.02	0.04	0.02	0.07	23.55	22.88	2.48	2.32	1.03	4.67
transaldolase 1	Taldo1	100689344	101.30	99.58	119.85	115.34	102.40	104.82	3312.35	3252.94	3898.91	3680.73	3293.33	3385.37
TAM41, mitochondrial translocator assembly and maintenance protein, homolog (S. cerevisiae)	Tamm41	100753536	9.30	9.13	11.77	11.55	13.72	12.95	312.93	303.79	402.44	375.49	456.43	438.36
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	Tanc1	100770620	3.18	3.22	2.77	3.08	3.52	3.36	690.42	700.00	621.04	664.06	767.96	735.59
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	Tanc2	100772256	6.47	6.27	7.31	7.37	4.61	5.03	1678.58	1639.74	1926.48	1940.03	1193.34	1323.49
transport and golgi organization 2 homolog (Drosophila)	Tango2	100774094	11.21	11.64	13.11	15.39	16.82	15.51	593.96	608.50	695.57	806.61	885.95	808.49

transport and golgi organization 6 homolog (Drosophila)	Tango6	100754699	13.12	13.47	11.82	11.69	11.98	11.89	1520.60	1593.99	1394.86	1384.91	1375.50	1386.12
TRAF family member-associated NFKB activator	Tank	100764984	12.99	13.61	13.62	14.82	15.90	14.19	473.19	509.67	521.68	601.48	544.40	511.26
TAO kinase 1	Taok1	100758772	13.21	12.92	12.02	14.90	16.22	15.11	2857.39	2812.81	2658.07	3304.08	3521.02	3315.27
TAO kinase 2	Taok2	100774226	11.56	12.05	12.63	11.44	9.14	10.25	1522.12	1583.92	1700.42	1536.73	1211.97	1356.21
TAO kinase 3	Taok3	100754068	20.23	19.96	25.15	30.17	28.20	27.72	2097.09	2096.34	2691.60	3167.33	2953.85	2856.35
transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	Tap1	100751458	8.27	7.54	6.66	6.60	5.25	6.18	724.60	663.40	588.75	581.78	458.50	550.52
transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	Tap2	100752033	9.14	9.19	9.61	7.80	6.34	7.02	735.23	757.65	806.11	649.00	538.19	595.38
TAP binding protein (tapasin)	Tapbp	100775092	83.88	85.24	102.73	76.35	67.36	68.93	5391.97	5483.80	6605.42	4854.72	4404.90	4465.85
TAP binding protein-like	Tapbpl	100752190	26.64	26.94	27.94	26.10	21.34	23.68	1369.45	1364.31	1425.92	1302.63	1081.56	1190.77
transmembrane anterior posterior transformation 1	Tapt1	100761495	6.94	7.01	8.53	9.40	10.00	8.48	698.02	699.09	854.56	925.98	974.96	828.12
TAR (HIV-1) RNA binding protein 1	Tarbp1	100770970	2.79	2.82	3.22	3.07	2.99	3.10	423.06	424.58	476.96	462.41	459.53	471.07
TAR (HIV-1) RNA binding protein 2	Tarbp2	100765450	36.65	33.75	32.75	28.32	22.83	26.61	1713.52	1614.12	1553.85	1311.90	1067.07	1197.31
TAR DNA binding protein	Tardbp	100769142	146.68	144.37	133.73	131.72	144.74	146.81	9920.34	9677.39	8314.53	8242.24	8942.28	9234.54
T cell-interacting, activating receptor on myeloid cells 1	Tarm1	100764097	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
threonyl-tRNA synthetase	Tars	100773026	132.74	128.77	124.52	127.05	124.80	121.88	9927.18	9800.01	9475.88	9570.36	9370.77	8986.85
threonyl-tRNA synthetase 2, mitochondrial (putative)	Tars2	100762707	18.08	18.00	19.84	18.68	18.96	20.58	1500.09	1444.84	1507.89	1435.90	1447.95	1527.25
threonyl-tRNA synthetase-like 2	Tarsl2	100772235	6.54	6.89	7.47	8.49	9.11	8.76	527.12	564.58	611.11	684.92	721.39	666.42
taspase, threonine aspartase, 1	Tasp1	100769290	10.74	10.22	9.02	11.36	10.74	9.98	717.76	693.60	609.86	715.05	701.72	652.40
tyrosine aminotransferase	Tat	100754678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
TatD DNase domain containing 2	Tatdn2	100752200	32.75	33.89	33.76	34.73	32.84	32.34	2710.04	2833.86	2802.15	2857.90	2682.68	2673.16
TatD DNase domain containing 3	Tatdn3	100766141	5.50	4.74	6.25	5.78	5.38	5.44	240.01	190.33	252.14	256.12	225.63	232.73
Tax1 (human T-cell leukemia virus type I) binding protein 1	Tax1bp1	100760869	75.10	74.28	78.03	92.15	85.59	81.60	6588.24	6495.82	6888.61	7954.83	7406.36	7032.45
Tax1 (human T-cell leukemia virus type I) binding protein 3	Tax1bp3	100772000	17.55	19.94	15.51	13.14	12.04	12.91	594.72	660.65	520.43	425.32	417.10	452.38
tafazzin	Taz	100758692	12.08	12.00	14.23	14.95	14.54	17.09	672.95	669.80	768.85	776.48	776.24	913.17
thymus, brain and testes associated	Tbata	100768040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TBC1 domain family, member 10A	Tbc1d10a	100758877	17.66	16.55	16.74	13.63	11.70	13.84	1032.97	961.70	988.70	795.02	688.27	806.62
TBC1 domain family, member 10B	Tbc1d10b	100774548	27.61	26.56	36.19	30.81	28.49	29.40	2337.86	2264.71	3095.28	2624.95	2414.62	2492.76
TBC1 domain family, member 10C	Tbc1d10c	100760518	4.66	4.08	4.60	3.63	2.82	3.43	327.36	290.98	326.67	254.96	198.72	249.56
TBC1 domain family, member 12	Tbc1d12	100756724	6.06	6.76	7.07	7.17	9.47	8.74	593.20	656.08	689.36	701.15	914.93	844.94
TBC1 domain family, member 13	Tbc1d13	100769063	28.03	28.16	31.33	32.80	31.14	34.68	2978.91	2919.87	3267.93	3317.99	3197.07	3565.76
TBC1 domain family, member 14	Tbc1d14	100768969	18.26	18.74	21.35	22.04	22.39	23.31	2252.03	2332.42	2665.52	2737.37	2762.38	2897.48
TBC1 domain family, member 15	Tbc1d15	100762508	36.49	37.55	43.70	45.25	53.75	52.32	3528.06	3719.61	4267.81	4380.72	5192.53	5041.61
TBC1 domain family, member 16	Tbc1d16	100754815	4.62	4.60	3.05	2.68	2.88	3.11	360.02	360.52	242.21	213.24	239.08	250.49
TBC1 domain family, member 17	Tbc1d17	100768569	21.73	20.12	26.40	18.73	14.94	16.77	1513.00	1387.19	1837.05	1307.26	1027.74	1144.04

TBC1 domain family, member 19	Tbc1d19	100765477	8.06	7.89	10.69	12.61	13.78	12.52	563.58	557.26	752.70	844.85	929.42	856.16
TBC1 domain family, member 2	Tbc1d2	100771281	22.39	21.62	22.23	17.28	11.85	14.35	2241.40	2232.68	2286.68	1831.09	1314.43	1470.24
TBC1 domain family, member 20	Tbc1d20	100759085	66.03	64.54	70.27	67.75	58.24	65.17	6232.02	6136.21	6730.87	6426.21	5483.36	6160.41
TBC1 domain family, member 21	Tbc1d21	100753805	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TBC1 domain family, member 22A	Tbc1d22a	100764002	13.09	15.38	16.06	16.90	16.34	17.73	376.73	408.10	481.93	442.71	431.59	457.05
TBC1 domain family, member 22B	Tbc1d22b	100751571	10.71	10.87	11.20	10.90	9.23	9.36	1080.82	1092.55	1127.81	1095.18	912.86	926.26
TBC1 domain family, member 23	Tbc1d23	100756156	12.70	12.72	12.26	14.06	17.20	15.80	1408.19	1434.77	1379.96	1557.59	1895.06	1766.53
TBC1 domain family, member 24	Tbc1d24	100771614	5.52	5.10	6.21	6.09	5.86	5.97	823.34	796.99	977.52	949.16	939.77	969.25
TBC1 domain family, member 25	Tbc1d25	100765348	9.27	8.24	9.24	9.57	7.28	8.56	759.54	669.80	768.85	778.79	597.19	698.20
TBC1 domain family, member 2B	Tbc1d2b	100756102	27.33	28.13	12.93	13.13	13.46	13.95	4369.63	4498.30	2079.25	2099.96	2141.39	2247.88
TBC1 domain family, member 30	Tbc1d30	100771231	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
TBC1 domain family, member 32	Tbc1d32	100765335	3.06	2.71	1.36	1.54	1.77	1.69	506.61	444.71	229.79	245.69	276.34	270.12
TBC1 domain family, member 4	Tbc1d4	100755100	2.42	2.41	2.46	2.61	2.70	2.58	391.92	395.29	404.92	425.32	435.73	411.25
TBC1 domain family, member 5	Tbc1d5	100769381	17.30	17.56	16.78	16.66	17.84	18.13	2176.08	2199.74	2125.21	2096.49	2220.05	2255.36
TBC1 domain family, member 7	Tbc1d7	100767925	16.76	18.27	15.62	16.32	18.43	20.78	657.76	707.32	591.23	598.00	700.69	807.55
TBC1 domain family, member 8 (with GRAM domain)	Tbc1d8	100756640	0.69	0.92	0.69	0.56	0.43	0.67	88.11	111.63	99.37	75.33	82.80	89.73
TBC1 domain family, member 8B (with GRAM domain)	Tbc1d8b	100761774	15.71	16.08	10.43	12.82	12.77	11.45	2647.75	2694.77	1760.04	2140.53	2132.07	1937.57
TBC1 domain family, member 9 (with GRAM domain)	Tbc1d9	100774042	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TBC1 domain family, member 9B (with GRAM domain)	Tbc1d9b	100767773	18.75	18.77	14.77	14.18	10.27	11.23	2950.05	3000.39	2341.33	2255.26	1671.50	1793.63
tubulin folding cofactor A	Tbca	100760678	335.08	358.42	276.58	297.57	313.12	302.59	3127.78	3310.59	2510.26	2558.90	2736.50	2631.10
tubulin folding cofactor B	Tbcb	100770447	40.99	42.67	39.16	31.52	29.03	34.72	870.43	888.50	838.41	643.20	592.01	698.20
tubulin folding cofactor C	Tbcc	100772749	5.90	5.92	8.10	6.26	4.99	5.15	120.01	126.27	167.68	129.80	109.71	109.36
TBCC domain containing 1	Tbccd1	100766911	16.73	17.09	17.97	20.12	19.50	20.17	1293.50	1331.37	1397.35	1530.93	1504.87	1539.40
tubulin folding cofactor D	Tbcd	100753552	34.35	33.91	15.95	17.45	13.23	14.26	4163.03	4212.81	1977.40	2057.08	1600.09	1704.84
tubulin folding cofactor E	Tbce	100767699	19.51	19.38	18.97	22.30	25.46	26.92	849.92	865.62	847.10	987.40	1135.38	1197.31
tubulin folding cofactor E-like	Tbcel	100767610	13.20	13.41	17.05	17.11	17.35	18.59	1692.25	1759.61	2287.92	2217.01	2280.07	2508.65
TBC1 domain containing kinase	Tbck	100760451	21.00	20.72	18.87	21.84	25.75	23.55	1195.51	1188.63	1027.21	1234.25	1422.07	1314.15
TBK1 binding protein 1	Tbkbp1	100762608	0.02	0.00	0.04	0.00	0.00	0.00	1.52	0.00	2.48	0.00	0.00	0.00
transducin (beta)-like 1 X-linked receptor 1	Tbl1xr1	100751772	24.82	24.46	31.74	37.24	34.03	32.25	3678.45	3661.05	4796.94	5562.82	5090.06	4845.33
transducin (beta)-like 2	Tbl2	100756139	29.66	29.46	30.48	30.71	29.69	31.69	4069.61	4045.36	4228.06	4213.83	4035.41	4354.63
transducin (beta)-like 3	Tbl3	100754975	56.12	54.55	69.30	60.45	42.68	48.76	4219.24	4099.35	5190.68	4493.13	3249.86	3619.98
TATA box binding protein	Tbp	100751579	26.73	27.71	28.54	31.00	32.38	31.72	1284.38	1333.20	1358.84	1442.86	1522.46	1482.39

TBP-like 1	Tbpl1	100768754	73.36	70.76	48.79	46.29	47.77	49.39	2178.36	2165.88	1474.36	1364.05	1421.04	1433.78
T-box, brain, 1	Tbr1	100764093	0.00	0.00	0.00	0.00	0.00	0.03	0.76	0.00	0.00	1.16	1.03	0.93
transforming growth factor beta regulator 1	Tbrg1	100754471	33.43	31.08	30.63	32.74	33.52	35.11	1509.96	1440.26	1418.46	1513.55	1510.05	1578.66
transforming growth factor beta regulator 4	Tbrg4	100767188	30.72	29.30	37.30	36.75	30.61	36.18	2928.02	2821.05	3580.94	3462.85	2862.77	3379.77
T-box 1	Tbx1	100770055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box 10	Tbx10	100763900	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	3.48	0.00	0.93
T-box 15	Tbx15	100758330	6.45	6.03	4.90	5.78	5.25	5.36	595.48	561.83	455.85	527.31	480.23	496.31
T-box 18	Tbx18	100767622	1.36	1.50	0.00	0.00	0.00	0.00	141.27	155.56	0.00	0.00	0.00	0.00
T-box 19	Tbx19	100766401	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
T-box 2	Tbx2	100764644	3.04	2.65	1.54	1.42	1.06	1.20	264.32	231.50	137.87	127.48	96.25	105.62
T-box 20	Tbx20	100752059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box 21	Tbx21	100762313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box 22	Tbx22	100756948	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box 3	Tbx3	100751320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box 4	Tbx4	100761841	0.04	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
T-box 5	Tbx5	100751029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-box 6	Tbx6	100770940	0.05	0.05	0.15	0.06	0.07	0.07	5.32	5.49	9.94	4.64	6.21	3.74
thromboxane A2 receptor	Tbxa2r	100763222	0.02	0.06	0.00	0.03	0.00	0.00	0.76	2.75	0.00	1.16	0.00	0.00
thromboxane A synthase 1 (platelet)	Tbxas1	100772642	0.17	0.10	0.05	0.21	0.16	0.19	8.35	6.41	3.73	6.95	9.31	10.28
tandem C2 domains, nuclear	Tc2n	100750614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T cell activation inhibitor, mitochondrial	Tcaim	100765518	7.72	8.45	11.62	11.25	12.65	13.10	749.67	814.38	1115.39	1067.37	1201.62	1254.33
titin-cap	Tcap	100759695	0.06	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	1.16	0.00	0.93
transcription elongation factor A (SII), 1	Tcea1	100755581	86.60	90.58	101.78	108.77	108.88	106.89	4460.77	4612.68	5208.07	5614.97	5529.93	5560.35
transcription elongation factor A (SII), 2	Tcea2	100768573	3.12	2.70	3.59	3.77	3.97	4.29	124.56	124.44	127.93	139.07	138.69	157.96
transcription elongation factor A (SII), 3	Tcea3	100754236	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	2.32	3.10	1.87
transcription elongation factor A (SII)-like 1	Tceal1	100764535	0.92	1.01	1.13	0.98	1.27	1.25	34.18	34.77	37.26	27.81	40.36	42.06
transcription elongation factor A (SII)-like 3	Tceal3	100767507	0.10	0.20	0.03	0.04	0.04	0.00	0.00	2.75	0.00	0.00	0.00	0.00
transcription elongation factor A (SII)-like 5	Tceal5	100768643	0.05	0.09	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor A (SII)-like 7	Tceal7	100771506	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription elongation factor A (SII)-like 8	Tceal8	100765557	37.77	37.13	36.41	39.35	42.09	38.46	1160.58	1133.73	1102.97	1177.46	1257.51	1157.12
transcription elongation factor A (SII) N-terminal and central domain containing	Tceanc	100769219	0.58	1.05	0.60	0.55	0.95	0.86	38.74	74.12	44.72	40.56	63.13	57.01
transcription elongation factor A (SII) N-terminal and central domain containing 2	Tceanc2	100764013	25.24	25.41	29.42	26.66	25.68	27.11	1144.63	1164.84	1374.99	1271.34	1204.72	1238.44
transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)	Tceb1	100757872	44.38	41.46	37.91	39.96	46.44	46.41	1285.90	1208.76	1096.76	1142.70	1312.36	1312.28

transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	Tceb2	100772696	418.91	393.74	318.15	158.99	91.58	86.88	3020.69	2807.32	2197.25	1058.09	653.08	634.64
transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)	Tceb3	100754808	38.32	37.72	33.19	35.07	35.24	35.96	3025.24	3004.97	2635.71	2761.71	2796.53	2867.57
transcription elongation regulator 1	Tcerg1	100763776	12.00	11.21	10.47	12.23	12.17	11.83	1609.46	1551.90	1439.58	1666.53	1646.66	1602.96
transcription elongation regulator 1-like	Tcerg1l	103160765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor 12	Tcf12	100770871	63.32	62.70	67.58	73.47	71.83	73.36	8005.54	7950.73	8526.93	9133.45	8902.95	9119.57
transcription factor 19	Tcf19	100756450	22.70	22.74	24.67	21.29	18.76	20.48	932.71	936.08	1011.06	861.08	762.78	840.27
transcription factor 20 (AR1)	Tcf20	100774117	8.34	8.15	8.87	9.42	8.72	8.25	1756.05	1699.22	1891.70	1942.35	1750.16	1705.77
transcription factor 21	Tcf21	100769038	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor 23	Tcf23	100764736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor 25 (basic helix-loop-helix)	Tcf25	100760643	72.03	67.84	68.72	69.23	63.25	66.99	5154.99	4943.93	5116.16	5073.75	4631.56	4830.37
transcription factor 3	Tcf3	100768423	43.67	40.80	39.46	23.60	15.71	17.85	4185.06	3946.54	3793.33	2200.79	1441.74	1628.19
transcription factor 4	Tcf4	100767684	3.40	3.64	3.79	4.34	4.81	3.93	239.25	242.48	240.96	271.19	328.09	248.62
transcription factor 7 (T-cell specific, HMG-box)	Tcf7	100757390	7.56	8.88	9.24	10.32	10.23	9.56	555.22	637.78	663.27	732.44	697.58	677.64
transcription factor 7-like 1 (T-cell specific, HMG-box)	Tcf7l1	100753225	2.34	2.21	2.98	3.03	2.70	3.10	174.69	167.45	226.06	222.51	192.51	233.67
transcription factor 7-like 2 (T-cell specific, HMG-box)	Tcf7l2	100758400	3.93	3.39	4.46	4.74	4.11	4.28	402.56	348.63	467.02	478.63	415.03	436.49
transcription factor-like 5 (basic helix-loop-helix)	Tcfl5	100766010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trichohyalin	Tchh	100760612	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trichohyalin-like 1	Tchhl1	100760900	0.07	0.11	0.02	0.09	0.02	0.04	3.80	6.41	1.24	5.79	3.10	1.87
trichoplein, keratin filament binding	Tchp	100757220	12.03	11.27	11.55	11.46	10.34	10.00	1236.53	1266.41	1326.55	1294.51	1175.74	1135.62
T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3	Tcirg1	100755303	4.49	4.55	7.83	7.44	5.29	5.70	421.54	422.75	727.86	669.86	499.90	531.83
T-cell leukemia/lymphoma 1A	Tcl1a	100761565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcobalamin II	Tcn2	100756668	0.69	0.74	0.21	0.17	0.02	0.02	36.46	35.69	11.18	12.75	4.14	3.74
Treacher Collins-Franceschetti syndrome 1	Tcof1	100765831	26.99	25.36	23.50	22.02	15.78	16.70	3837.95	3646.41	3415.74	3262.36	2387.71	2521.74
t-complex 1	Tcp1	100689476	155.50	161.91	163.83	170.06	164.86	163.04	7899.97	8318.57	8415.14	8582.96	8315.08	8111.06
t-complex 10-like 2	Tcp10l2	100772850	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
t-complex 11, testis-specific	Tcp11	100758288	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
t-complex 11, testis-specific-like 1	Tcp11l1	100771847	9.08	9.00	10.08	10.82	10.70	11.00	758.78	761.31	864.49	902.80	909.75	916.91
t-complex 11, testis-specific-like 2	Tcp11l2	100766824	10.63	11.77	11.06	10.93	12.61	13.60	364.58	400.78	362.69	360.42	406.75	460.79
T-cell leukemia translocation altered	Tcta	100763762	18.81	18.65	17.31	16.92	20.84	20.98	714.73	687.19	647.13	621.18	737.95	775.78
t-complex-associated-testis-expressed 1	Tcte1	100757406	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	2.07	1.87
t-complex-associated-testis-expressed 3	Tcte3	100774972	0.13	0.05	0.07	0.27	0.48	0.32	3.80	1.83	2.48	5.79	12.42	8.41
Tctex1 domain containing 1	Tctex1d1	100752438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tctex1 domain containing 2	Tctex1d2	100753463	23.47	22.52	23.07	26.33	27.52	27.64	360.78	339.48	326.67	384.76	410.89	414.06
Tctex1 domain containing 4	Tctex1d4	100754474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
tectonic family member 1	Tctn1	100750362	6.98	7.27	7.84	6.70	7.06	7.10	564.34	581.96	632.22	534.26	575.45	573.89
tectonic family member 2	Tctn2	100768551	6.95	7.28	8.05	8.47	7.94	8.02	651.68	679.87	757.67	778.79	734.84	746.80
tectonic family member 3	Tctn3	100758203	2.63	2.76	3.99	4.30	4.58	4.82	209.63	213.20	316.73	333.77	367.42	382.28
thymine-DNA glycosylase	Tdg	100772748	36.74	36.94	36.97	39.47	37.87	37.18	3480.97	3544.84	3566.03	3749.11	3569.67	3536.79
teratocarcinoma-derived growth factor 1	Tdgf1	100767483	9.98	9.12	15.59	14.96	11.33	12.28	875.75	802.48	1402.32	1314.22	1028.78	1127.21
tryptophan 2,3-dioxygenase	Tdo2	100768126	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	2.07	1.87
tyrosyl-DNA phosphodiesterase 1	Tdp1	100769476	22.12	22.69	27.70	28.70	28.70	27.97	1351.22	1378.04	1681.79	1693.18	1678.75	1651.56
tyrosyl-DNA phosphodiesterase 2	Tdp2	100764160	30.28	31.56	40.33	42.69	47.37	42.98	1582.88	1657.13	2071.80	2166.02	2427.04	2221.71
tudor domain containing 1	Tdrd1	100752380	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.00
tudor domain containing 3	Tdrd3	100772340	21.99	21.28	18.56	20.98	24.36	23.40	1790.99	1744.05	1537.70	1795.17	2021.33	1879.62
tudor domain containing 5	Tdrd5	100752410	0.18	0.14	0.28	0.26	0.34	0.24	18.99	15.56	27.33	28.97	33.12	29.91
tudor domain containing 6	Tdrd6	100759643	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
tudor domain containing 7	Tdrd7	100766097	10.35	10.52	12.06	13.06	13.71	13.91	1055.76	1073.33	1235.88	1321.17	1389.99	1418.83
tudor domain containing 9	Tdrd9	100768223	0.01	0.00	0.01	0.00	0.00	0.00	1.52	0.00	1.24	0.00	0.00	0.00
tudor and KH domain containing	Tdrkh	100768467	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testis development related protein	Tdrp	100756030	0.16	0.00	0.00	0.00	0.11	0.00	1.52	0.00	0.00	0.00	1.03	0.00
TEA domain family member 1 (SV40 transcriptional enhancer factor)	Tead1	100762354	16.08	15.63	18.55	20.93	25.47	23.98	1901.13	1933.47	2258.11	2544.99	3064.59	2881.59
TEA domain family member 2	Tead2	100755590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEA domain family member 3	Tead3	100765268	9.03	8.31	6.75	5.79	3.77	3.74	695.74	639.61	512.98	435.75	302.22	286.94
TEA domain family member 4	Tead4	100763265	3.82	3.74	4.18	4.25	5.05	5.02	181.53	188.50	185.07	181.95	202.86	228.06
tec protein tyrosine kinase	Tec	100752188	0.04	0.04	0.00	0.00	0.00	0.00	3.04	2.75	0.00	0.00	0.00	0.93
tectonin beta-propeller repeat containing 1	Tecpr1	100769434	5.15	4.86	6.80	5.74	5.25	5.28	803.59	778.69	1081.86	909.75	818.67	845.88
tectonin beta-propeller repeat containing 2	Tecpr2	100756039	3.36	3.45	3.68	3.24	3.13	3.19	796.00	796.99	840.89	759.09	710.00	736.52
trans-2,3-enoyl-CoA reductase	Tecr	100761652	101.54	97.77	111.50	103.59	75.34	86.58	4028.60	3838.57	4396.99	4049.27	3014.92	3487.25
trans-2,3-enoyl-CoA reductase-like	Tecrl	100767329	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tectorin alpha	Tecta	100753259	0.03	0.01	0.07	0.06	0.08	0.04	3.04	0.92	6.21	6.95	10.35	3.74
tectorin beta	Tectb	100760431	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
thyrotrophic embryonic factor	Tef	100761103	13.84	14.48	12.14	12.10	9.63	10.52	312.17	307.45	298.10	300.16	192.51	253.30
transcription elongation factor, mitochondrial	Tefm	100771926	8.74	8.07	10.23	10.57	10.31	10.14	313.69	291.90	360.21	390.56	367.42	374.80
TEK tyrosine kinase, endothelial	Tek	100764854	0.06	0.03	0.08	0.06	0.10	0.15	7.60	3.66	11.18	6.95	11.38	16.82
tektin 1	Tekt1	100759239	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tektin 2 (testicular)	Tekt2	100762514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
tektin 3	Tekt3	100753879	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.92	0.00	0.00	1.03	0.00
tektin 4	Tekt4	100750482	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tektin 5	Tekt5	100774827	0.07	0.12	0.04	0.07	0.00	0.06	3.04	5.49	1.24	2.32	2.07	1.87
telomere maintenance 2	Telo2	100774669	17.68	16.99	21.89	18.17	13.64	15.03	1779.60	1746.80	2169.93	1792.85	1361.01	1500.14
TEN1 CST complex subunit	Ten1	100759443	11.58	10.25	10.03	10.25	7.86	9.91	237.74	215.95	223.58	219.04	171.81	211.24
tensin like C1 domain containing phosphatase (tensin 2)	Tenc1	100752687	1.42	1.12	0.88	0.73	0.61	0.55	217.99	186.67	139.11	118.21	97.29	82.25

teneurin transmembrane protein 1	Tenm1	100757724	0.15	0.10	0.03	0.05	0.14	0.07	9.87	9.15	9.94	15.07	16.56	23.37
teneurin transmembrane protein 3	Tenm3	100751317	0.45	0.43	0.01	0.00	0.00	0.00	121.53	121.70	2.48	0.00	0.00	0.00
teneurin transmembrane protein 4	Tenm4	100767886	0.28	0.25	0.37	0.33	0.08	0.08	104.06	94.25	136.63	114.73	24.84	26.17
telomerase-associated protein 1	Tep1	100753953	10.80	10.52	10.90	11.39	10.07	11.20	2748.01	2757.91	2848.11	2908.89	2569.87	2844.20
testis, prostate and placenta expressed	Tepp	100766040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
telomeric repeat binding factor (NIMA-interacting) 1	Terf1	100764580	15.31	15.83	13.25	17.86	19.89	17.83	774.73	818.04	683.15	892.37	986.34	895.41
telomeric repeat binding factor 2	Terf2	100762546	21.50	22.75	23.50	24.58	26.49	25.97	1509.20	1627.84	1683.03	1725.63	1803.98	1795.50
telomeric repeat binding factor 2, interacting protein	Terf2ip	100766336	4.93	5.73	6.33	5.97	7.87	6.94	288.62	334.90	375.11	347.68	449.18	400.97
telomerase reverse transcriptase	Tert	100774541	3.82	3.49	4.32	4.39	4.20	3.87	206.59	204.05	209.91	228.31	205.96	207.50
testis derived transcript (3 LIM domains)	Tes	100751144	15.25	16.05	25.92	27.36	24.40	25.33	988.16	1038.56	1683.03	1751.13	1536.95	1615.11
tescalcin	Tesc	100757834	0.00	0.00	0.00	0.00	0.00	0.00	5.32	2.75	4.97	3.48	1.03	5.61
testis-specific kinase 1	Tesk1	100756840	8.34	7.92	8.07	7.14	4.62	5.13	487.62	469.41	478.20	438.07	279.45	313.11
testis-specific kinase 2	Tesk2	100751809	3.19	3.03	3.97	3.92	4.71	4.81	292.42	283.66	363.93	352.31	422.27	443.97
thymocyte expressed, positive selection associated 1	Tespa1	100754149	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
tet methylcytosine dioxygenase 1	Tet1	100771765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tet methylcytosine dioxygenase 2	Tet2	100769811	1.87	1.90	1.57	1.78	1.75	1.68	485.35	489.54	406.16	461.25	449.18	445.84
tet methylcytosine dioxygenase 3	Tet3	100769509	7.99	8.11	6.17	5.78	4.05	4.77	2049.24	2062.49	1615.95	1491.53	1031.88	1234.70
testis expressed 10	Tex10	100775062	24.17	25.64	24.48	25.00	25.19	24.97	2100.13	2249.15	2126.45	2185.72	2233.50	2195.54
testis expressed 101	Tex101	100689441	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testis expressed 11	Tex11	100771808	0.02	0.02	0.00	0.03	0.05	0.00	0.76	0.92	0.00	2.32	4.14	3.74
testis expressed 12	Tex12	100769839	0.15	0.07	0.19	0.13	0.12	0.07	47.09	62.22	47.20	53.31	55.89	67.30
testis expressed 13A	Tex13a	100751190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testis expressed 13B	Tex13b	100752471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testis expressed 14	Tex14	100754599	0.10	0.09	0.02	0.04	0.08	0.04	13.67	14.64	3.73	6.95	10.35	4.67
testis expressed 15	Tex15	100757105	0.02	0.00	0.00	0.00	0.00	0.00	3.80	0.92	0.00	0.00	1.03	1.87
testis expressed 2	Tex2	100769385	6.62	7.06	8.00	8.32	7.64	8.18	937.27	980.00	1129.06	1163.56	1080.53	1159.93
testis expressed 22	Tex22	100754201	0.14	0.25	0.41	0.34	0.23	0.25	13.67	20.13	32.29	26.66	21.73	23.37
testis expressed 26	Tex26	100760446	2.17	2.15	1.94	1.83	2.49	2.26	146.59	141.83	129.18	143.71	165.60	152.35
testis expressed 261	Tex261	100756382	51.20	49.83	54.41	50.85	51.96	55.59	4338.49	4234.78	4623.05	4294.96	4381.10	4684.56
testis expressed 264	Tex264	100773222	29.87	27.30	32.54	29.56	21.24	24.05	1252.48	1171.24	1381.20	1237.73	881.81	1026.27
testis expressed 28	Tex28	100772753	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
testis expressed 30	Tex30	100763440	19.08	21.04	22.27	24.37	26.50	24.91	398.76	477.65	474.48	504.13	543.37	508.46
testis expressed 33	Tex33	100764215	0.08	0.10	0.20	0.06	0.06	0.15	2.28	2.75	3.73	1.16	1.03	2.80
testis expressed 35	Tex35	100774314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
testis expressed 36	Tex36	100766173	0.16	0.07	0.00	0.00	0.08	0.00	4.56	0.92	1.24	0.00	1.03	0.00
testis expressed 37	Tex37	100768528	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	1.87
testis expressed 38	Tex38	100769829	0.56	0.46	0.49	0.49	0.43	0.64	44.81	36.60	39.75	40.56	32.08	55.15
testis expressed 40	Tex40	100761014	0.00	0.05	0.06	0.00	0.00	0.00	3.04	2.75	3.73	2.32	0.00	0.93
testis expressed 43	Tex43	100752692	0.18	0.11	0.00	0.14	0.13	0.00	2.28	2.75	1.24	1.16	4.14	0.00
testis expressed 9	Tex9	100755801	4.69	5.23	4.03	5.00	5.15	4.69	299.26	323.01	278.23	301.32	311.53	288.81
transcription factor A, mitochondrial	Tfam	100773498	65.13	65.96	73.17	75.66	80.05	78.03	2423.69	2439.48	2711.48	2746.64	2933.15	2862.89

transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	Tfap2a	100764951	5.19	4.53	6.08	6.08	6.53	7.15	410.15	357.78	473.24	464.73	497.83	532.76
transcription factor AP-2 beta (activating enhancer binding protein 2 beta)	Tfap2b	100754417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)	Tfap2c	100760188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor AP-2 delta (activating enhancer binding protein 2 delta)	Tfap2d	100754897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transcription factor AP-2 epsilon (activating enhancer binding protein 2 epsilon)	Tfap2e	100761645	1.65	1.49	0.62	0.22	0.30	0.49	75.95	69.54	29.81	11.59	14.49	23.37
transcription factor AP-4 (activating enhancer binding protein 4)	Tfap4	100751080	19.55	19.29	23.72	19.27	14.35	15.43	1021.58	1009.28	1263.20	1038.39	794.87	849.61
transcription factor B1, mitochondrial	Tfb1m	100750446	35.00	37.65	32.70	35.20	41.16	39.55	1113.48	1169.41	1030.93	1060.41	1247.16	1212.27
transcription factor B2, mitochondrial	Tfb2m	100765415	78.70	80.29	76.33	76.51	69.10	69.63	3562.24	3674.77	3470.39	3461.69	3141.18	3130.21
transcription factor CP2	Tfcp2	100756794	6.23	6.76	6.21	7.05	6.48	8.23	489.90	535.29	484.41	520.36	471.95	585.10
transcription factor CP2-like 1	Tfcp2l1	100756997	0.00	0.00	0.07	0.00	0.00	0.10	0.00	1.83	2.48	0.00	0.00	3.74
transcription factor Dp-1	Tfdp1	100774706	35.63	38.44	41.80	44.24	43.45	44.72	2713.83	2952.81	3152.42	3335.37	3264.35	3374.16
transcription factor Dp-2 (E2F dimerization partner 2)	Tfdp2	100759949	15.82	15.81	9.23	9.18	10.80	10.34	1267.67	1293.86	741.53	731.28	861.11	832.79
transcription factor binding to IGHM enhancer 3	Tfe3	100761176	24.32	23.96	26.19	23.71	22.33	23.13	2196.59	2161.31	2359.96	2098.80	1958.19	2058.14
transcription factor EB	Tfeb	100769893	2.73	2.11	2.91	1.46	1.77	1.93	176.21	139.09	186.31	101.98	121.09	126.18
transcription factor EC	Tfec	100750851	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trefoil factor 1	Tff1	100764859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trefoil factor 2	Tff2	100764562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trefoil factor 3 (intestinal)	Tff3	100763968	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRK-fused gene	Tfg	100757801	82.44	81.07	82.73	85.82	88.14	82.68	3405.77	3395.69	3412.01	3494.14	3641.08	3424.63
tuftelin interacting protein 11	Tfip11	100774688	14.39	13.54	14.66	13.59	9.82	10.92	1253.24	1213.33	1320.34	1245.84	902.51	980.47
tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	Tfpi	100760115	76.40	76.75	66.10	78.40	91.68	82.58	4191.90	4159.74	3594.60	4242.81	4983.46	4484.55
tissue factor pathway inhibitor 2	Tfpi2	100765973	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
TCF3 (E2A) fusion partner (in childhood Leukemia)	Tfpt	100765274	7.21	6.66	10.69	8.10	4.32	5.28	180.01	169.28	243.45	177.31	108.67	123.38
transferrin receptor 2	Tfr2	100752766	1.42	1.39	0.93	0.98	1.08	0.96	208.87	189.41	130.42	134.43	128.34	142.07
transferrin receptor	Tfrc	100689395	5.01	5.18	4.63	6.39	5.70	4.55	402.56	419.09	363.93	498.34	437.80	369.19
TDP-glucose 4,6-dehydratase	Tgds	100767620	20.02	20.68	22.59	23.50	22.81	24.01	982.84	1017.52	1105.46	1165.87	1147.80	1168.34
transforming growth factor, alpha	Tgfa	100754730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
transforming growth factor, beta 1	Tgfb1	100773359	54.51	36.13	36.34	26.11	16.43	25.96	421.54	360.52	426.04	346.52	259.78	287.88
transforming growth factor beta 1 induced transcript 1	Tgfb1i1	100771750	67.76	62.28	82.31	68.65	53.82	57.83	3495.40	3258.43	4337.37	3525.43	2766.52	2958.23
transforming growth factor, beta 2	Tgfb2	100774918	0.10	0.11	0.14	0.06	0.09	0.04	11.39	13.73	12.42	5.79	10.35	4.67
transforming growth factor, beta 3	Tgfb3	100756831	4.07	4.70	6.00	5.27	4.43	4.84	395.72	463.01	596.20	516.88	437.80	479.49
transforming growth factor, beta-induced, 68kDa	Tgfbi	100753815	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transforming growth factor, beta receptor 1	Tgfbr1	100772727	13.26	13.02	7.03	8.04	8.08	7.72	2329.51	2295.82	1247.06	1410.41	1409.65	1359.01
transforming growth factor, beta receptor II (70/80kDa)	Tgfbr2	100773953	23.23	23.51	14.71	14.87	15.40	15.69	3248.55	3300.53	2065.59	2096.49	2160.02	2195.54
transforming growth factor, beta receptor III	Tgfbr3	100768238	5.58	5.36	5.26	5.17	4.82	4.92	944.87	918.69	903.00	887.73	808.32	842.14
transforming growth factor, beta receptor III-like	Tgfbr3l	100759345	0.06	0.00	0.00	0.03	0.00	0.00	6.08	1.83	3.73	6.95	2.07	3.74
transforming growth factor, beta receptor associated protein 1	Tgfbrap 1	100762020	12.33	12.05	11.36	10.93	10.85	11.45	1351.22	1372.55	1302.95	1223.82	1206.79	1307.60
TGFB-induced factor homeobox 1	Tgif1	100774130	36.37	37.12	41.84	39.49	37.19	39.66	1649.72	1675.43	1878.04	1759.24	1671.50	1776.81
TGFB-induced factor homeobox 2	Tgif2	100753778	41.87	39.26	36.99	37.41	36.69	39.70	3427.04	3200.79	3031.93	3041.01	2957.99	3236.76
transglutaminase 1	Tgm1	100757784	0.31	0.27	0.14	0.15	0.20	0.14	22.79	22.88	14.91	15.07	17.59	13.09
transglutaminase 2	Tgm2	100759289	22.28	22.13	11.03	10.81	10.50	11.83	2883.97	2886.93	1439.58	1398.82	1357.90	1525.38
transglutaminase 3	Tgm3	100752403	0.00	0.02	0.00	0.02	0.02	0.02	0.00	0.92	1.24	1.16	1.03	0.93
transglutaminase 4	Tgm4	100762929	0.01	0.00	0.02	0.06	0.07	0.02	0.76	1.83	1.24	5.79	5.17	2.80
transglutaminase 5	Tgm5	100756318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
transglutaminase 6	Tgm6	100751827	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transglutaminase 7	Tgm7	100756034	0.01	0.00	0.00	0.04	0.00	0.00	2.28	0.92	1.24	4.64	1.03	0.00
trans-golgi network protein 2	Tgoln2	100752925	40.24	41.47	44.97	45.83	51.61	50.62	6050.49	6266.15	6850.11	6967.43	7811.04	7719.44
trimethylguanosine synthase 1	Tgs1	100755697	7.71	7.69	7.74	8.98	9.29	8.77	975.25	978.17	963.86	1114.88	1131.24	1099.17
tyrosine hydroxylase	Th	100760127	0.00	0.05	0.03	0.00	0.10	0.00	0.00	2.75	2.48	0.00	4.14	0.00
thyroid adenoma associated	Thada	100759859	13.55	12.88	12.54	13.11	12.52	13.30	2605.22	2533.73	2510.26	2597.14	2470.51	2612.40
THAP domain containing, apoptosis associated protein 1	Thap1	100751715	9.73	8.54	8.93	9.01	8.97	7.08	321.29	300.13	309.28	329.13	320.85	274.79
THAP domain containing 11	Thap11	100753517	16.72	14.20	15.40	15.26	15.42	16.28	918.28	777.78	853.31	837.90	846.62	896.35
THAP domain containing, apoptosis associated protein 3	Thap3	100759647	40.87	40.30	42.63	32.55	24.47	24.07	1280.58	1292.94	1367.54	1072.00	818.67	832.79
THAP domain containing 4	Thap4	100754670	49.78	48.17	56.30	56.73	44.88	47.29	2523.19	2467.85	2916.42	2881.07	2303.88	2426.40
THAP domain containing 5	Thap5	103159821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
THAP domain containing 6	Thap6	100754165	6.78	6.35	4.93	6.51	6.73	6.35	406.35	395.29	305.55	374.33	399.50	384.15
THAP domain containing 7	Thap7	100753121	22.96	23.16	42.08	25.77	15.58	17.52	789.16	777.78	1398.59	864.55	537.16	611.27
THAP domain containing 8	Thap8	100771302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thrombomodulin	Thbd	100765076	16.81	17.10	15.04	14.40	14.29	14.43	1815.30	1850.20	1638.31	1562.22	1536.95	1564.64
thrombospondin 1	Thbs1	100760878	10.20	11.27	6.09	7.56	7.69	8.45	1680.86	1861.18	1016.03	1240.04	1260.61	1383.31
thrombospondin 2	Thbs2	100752022	0.68	0.64	0.23	0.32	0.22	0.21	110.13	108.89	39.75	56.79	39.33	38.32
thrombospondin 3	Thbs3	100756924	29.80	28.87	39.97	35.78	33.27	35.08	2924.99	2855.82	3926.24	3504.57	3280.91	3461.08
thrombospondin 4	Thbs4	100762358	0.01	0.00	0.00	0.00	0.01	0.00	0.76	0.00	0.00	0.00	1.03	0.00
theg spermatid protein	Theg	100760485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
theg spermatid protein-like	Thegl	100759563	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
thioesterase superfamily member 4	Them4	100769809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioesterase superfamily member 5	Them5	100769525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thioesterase superfamily member 6	Them6	100765574	5.33	4.35	7.48	6.34	4.68	4.96	223.30	183.92	311.76	266.55	193.54	209.37
thymocyte selection associated	Themis	100752569	1.23	0.97	0.01	0.01	0.00	0.00	127.60	104.31	1.24	1.16	0.00	0.00
thymocyte selection associated family member 2	Themis2	100764331	0.16	0.05	0.18	0.10	0.12	0.16	12.91	3.66	14.91	12.75	11.38	12.15

tRNA-histidine guanylyltransferase 1-like (S. cerevisiae)	Thg1l	100763395	7.57	8.04	7.69	8.22	8.07	7.69	524.08	550.85	529.13	548.17	548.54	533.70
threonine synthase-like 1 (S. cerevisiae)	Thnsl1	100757931	5.21	5.62	6.44	7.35	9.72	7.75	486.86	524.31	616.08	681.44	912.86	740.26
threonine synthase-like 2 (S. cerevisiae)	Thnsl2	100768824	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THO complex 1	Thoc1	100770844	28.49	28.45	27.86	31.29	32.37	30.53	1860.87	1895.03	1889.21	2103.44	2155.88	1990.85
THO complex 3	Thoc3	100751816	32.31	33.65	29.90	28.85	30.11	29.12	1212.22	1260.92	1131.54	1080.11	1126.07	1093.56
THO complex 5	Thoc5	100773616	111.08	106.57	120.94	118.12	114.95	120.90	7475.39	7414.52	8300.87	8018.57	7732.38	8083.96
THO complex 6 homolog (Drosophila)	Thoc6	100767984	38.67	33.28	42.49	36.61	32.89	37.21	1547.94	1380.79	1728.98	1406.93	1289.59	1443.13
THO complex 7 homolog (Drosophila)	Thoc7	100753038	40.18	39.39	49.47	51.78	56.67	60.13	1079.31	1099.87	1352.63	1329.28	1475.89	1541.27
thimet oligopeptidase 1	Thop1	100764672	45.55	42.51	44.75	34.29	23.76	26.11	3379.95	3194.38	3397.11	2569.33	1823.65	1977.76
thrombopoietin	Thpo	100774906	1.22	0.99	0.61	0.51	0.49	0.62	53.17	46.67	27.33	23.18	20.70	21.50
thyroid hormone receptor, alpha	Thra	100770653	52.15	53.04	46.44	41.27	37.69	42.02	3113.35	3175.17	2761.16	2394.33	2233.50	2454.44
thyroid hormone receptor associated protein 3	Thrap3	100758746	56.19	58.65	46.88	48.57	51.29	52.68	7164.73	7501.44	6061.38	6202.54	6485.22	6726.82
thyroid hormone receptor, beta	Thrb	100768029	0.00	0.02	0.00	0.00	0.00	0.00	1.52	3.66	0.00	0.00	0.00	0.00
thyroid hormone responsive	Thrsp	100766732	0.04	0.04	0.12	0.11	0.00	0.00	0.76	0.92	2.48	4.64	1.03	0.00
thrombospondin, type I, domain containing 1	Thsd1	100772553	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.92	1.24	0.00	0.00	0.93
thrombospondin, type I, domain containing 4	Thsd4	100752597	0.05	0.02	0.03	0.03	0.01	0.01	5.32	0.92	2.48	2.32	1.03	0.93
thrombospondin, type I, domain containing 7A	Thsd7a	100763919	1.46	1.42	1.33	1.56	2.09	1.96	453.44	441.96	411.13	485.59	648.94	613.14
thrombospondin, type I, domain containing 7B	Thsd7b	100771852	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thiamine triphosphatase	Thtpa	100764351	23.12	22.96	25.82	25.99	24.31	25.42	1633.77	1640.66	1869.34	1871.66	1712.90	1824.48
THUMP domain containing 1	Thumpd 1	100754766	34.55	35.34	32.41	34.96	35.35	35.10	2686.49	2756.08	2531.37	2708.40	2742.71	2746.99
THUMP domain containing 2	Thumpd 2	100762353	3.09	3.54	2.46	2.97	3.35	3.52	228.62	258.04	178.86	209.76	249.43	270.12
THUMP domain containing 3	Thumpd 3	100753178	22.76	23.97	21.49	24.11	26.15	23.82	1367.17	1378.04	1283.08	1376.80	1548.34	1435.65
Thy-1 cell surface antigen	Thy1	100758237	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thymocyte nuclear protein 1	Thyn1	100751507	13.77	12.86	12.90	13.13	14.76	14.04	732.20	710.98	694.33	693.03	758.64	742.13
TIA1 cytotoxic granule-associated RNA binding protein	Tia1	100775074	10.55	9.94	8.97	9.63	9.96	10.16	1054.24	1010.20	907.97	981.61	1116.75	1083.28
TIA1 cytotoxic granule-associated RNA binding protein-like 1	Tial1	100757458	52.31	50.65	51.35	57.54	58.10	55.65	3440.71	3392.94	3490.26	3816.32	3817.03	3669.51
T-cell lymphoma invasion and metastasis 1	Tiam1	100756100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T-cell lymphoma invasion and metastasis 2	Tiam2	100771450	3.69	3.88	3.61	3.49	3.94	3.58	677.51	704.58	660.79	645.52	721.39	664.55
toll-like receptor adaptor molecule 1	Ticam1	100769672	1.24	1.24	1.40	1.29	0.91	0.96	116.21	116.21	132.90	119.37	83.83	89.73
toll-like receptor adaptor molecule 2	Ticam2	100758290	0.00	0.04	0.05	0.05	0.05	0.04	0.00	0.92	1.24	1.16	1.03	0.93
TOPBP1-interacting checkpoint and replication regulator	Ticrr	100762467	11.21	11.37	11.34	12.60	12.31	12.19	2251.27	2275.69	2318.98	2539.19	2471.55	2458.18
tyrosine kinase with immunoglobulin-like and EGF-like domains 1	Tie1	100768521	0.02	0.00	0.00	0.00	0.00	0.01	1.52	0.00	0.00	0.00	0.00	0.93

TRAF-interacting protein with forkhead-associated domain	Tifa	100754946	8.59	8.91	10.45	10.76	9.55	10.29	316.73	338.56	377.59	387.08	348.79	378.54
TRAF-interacting protein with forkhead-associated domain, family member B	Tifab	100761541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tigger transposable element derived 2	Tigd2	100752465	15.54	15.55	21.17	22.62	24.60	23.90	1179.56	1175.82	1609.74	1708.25	1846.42	1809.52
tigger transposable element derived 3	Tigd3	100767431	0.54	0.57	0.75	0.64	0.46	0.55	31.90	32.03	42.23	39.40	27.94	33.65
tigger transposable element derived 4	Tigd4	100761472	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
tigger transposable element derived 5	Tigd5	100755601	0.88	0.85	0.92	0.72	0.80	0.87	120.77	117.12	126.69	98.51	108.67	119.64
T cell immunoreceptor with Ig and ITIM domains	Tigit	100774450	1.00	1.26	0.28	0.45	0.20	0.18	36.46	46.67	9.94	16.22	11.38	8.41
T-cell immunoglobulin and mucin domain containing 4	Timd4	100763899	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
timeless circadian clock	Timeless	100764475	21.36	21.27	25.57	23.79	21.80	23.90	2891.57	2869.55	3456.73	3185.87	2920.73	3220.87
translocase of inner mitochondrial membrane 10 homolog (yeast)	Timm10	100757332	137.91	133.96	126.97	106.47	80.05	92.30	2161.65	2103.66	1976.16	1625.96	1225.42	1402.00
translocase of inner mitochondrial membrane 10 homolog B (yeast)	Timm10b	100759766	60.10	55.69	52.08	39.16	36.72	39.95	1028.42	969.02	932.81	696.51	654.11	711.28
translocase of inner mitochondrial membrane 13 homolog (yeast)	Timm13	100772547	216.60	191.77	213.72	98.96	57.22	63.11	1421.10	1270.07	1383.68	717.37	415.03	444.90
translocase of inner mitochondrial membrane 17 homolog A (yeast)	Timm17a	100755745	67.62	62.20	52.99	59.46	56.27	58.69	1680.10	1583.92	1378.72	1435.90	1392.06	1431.91
translocase of inner mitochondrial membrane 17 homolog B (yeast)	Timm17b	100762818	50.28	47.02	52.21	53.86	43.22	44.73	1106.65	1023.01	1135.27	1129.95	925.28	958.97
translocase of inner mitochondrial membrane 21 homolog (yeast)	Timm21	100774814	26.93	26.22	28.34	29.25	37.71	35.75	926.64	901.31	973.80	976.97	1266.82	1192.64
translocase of inner mitochondrial membrane 22 homolog (yeast)	Timm22	100762051	37.77	34.64	37.66	39.53	41.35	44.53	1095.26	1038.56	1117.88	1183.26	1230.60	1321.62
translocase of inner mitochondrial membrane 44 homolog (yeast)	Timm44	100758774	43.25	45.70	43.00	41.62	36.78	36.08	2219.37	2349.81	2208.43	2077.94	1842.28	1798.30
translocase of inner mitochondrial membrane 50 homolog (S. cerevisiae)	Timm50	100773512	57.91	56.38	66.48	52.13	40.32	42.32	2229.25	2118.30	2464.30	1781.26	1410.69	1447.80
translocase of inner mitochondrial membrane 8 homolog A (yeast)	Timm8a	103159709	112.64	116.58	120.35	112.59	118.80	119.04	1058.04	1107.19	1109.18	1026.80	1170.57	1141.23
translocase of inner mitochondrial membrane 8 homolog B (yeast)	Timm8b	100774369	91.79	86.37	89.59	77.48	73.99	77.37	936.51	881.18	896.79	702.31	671.71	698.20
translocase of inner mitochondrial membrane 9 homolog (yeast)	Timm9	100760675	82.86	88.11	89.86	90.42	78.11	82.72	791.44	846.41	849.59	842.53	772.10	786.06
translocase of inner mitochondrial membrane domain containing 1	Timmdc1	100757811	19.01	20.44	17.00	19.00	19.63	18.30	783.08	840.00	710.47	779.95	800.04	768.30
TIMP metallopeptidase inhibitor 1	Timp1	100770193	76.54	78.71	50.88	51.02	47.81	56.72	1661.87	1713.86	1107.94	1104.45	1039.13	1204.79
TIMP metallopeptidase inhibitor 2	Timp2	100772625	62.02	62.46	78.40	81.67	87.80	90.39	5959.34	6031.90	7602.81	7841.25	8384.42	8664.39
TIMP metallopeptidase inhibitor 3	Timp3	100751854	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.03	0.00
TIMP metallopeptidase inhibitor 4	Timp4	100753236	0.00	0.03	0.00	0.00	0.00	0.00	0.76	0.92	2.48	0.00	0.00	2.80
tubulointerstitial nephritis antigen	Tinag	100751448	0.45	0.51	0.06	0.03	0.00	0.00	28.10	29.28	3.73	2.32	0.00	0.00
tubulointerstitial nephritis antigen-like 1	Tinagl1	100760266	123.62	118.28	63.82	62.95	62.11	67.54	6997.63	6748.37	3782.15	3776.92	3974.35	4181.71

TERF1 (TRF1)-interacting nuclear factor 2	Tinf2	100770148	18.09	19.36	25.58	29.29	30.97	28.09	1051.20	1132.81	1469.39	1656.10	1840.21	1639.41
TCDD-inducible poly(ADP-ribose) polymerase	Tiparp	100755246	49.82	51.00	52.63	51.39	55.54	55.80	3782.51	3889.81	4002.00	3934.53	4208.25	4290.13
TIMELESS interacting protein	Tipin	100768167	63.42	64.87	57.42	67.85	70.60	69.48	2148.74	2162.22	1996.03	2258.73	2394.96	2343.22
TOR signaling pathway regulator	Tiprl	100766692	35.38	34.73	34.32	34.77	42.05	39.85	1528.19	1524.45	1505.41	1499.64	1834.00	1712.31
toll-interleukin 1 receptor (TIR) domain containing adaptor protein	Tirap	100757985	13.18	13.21	13.75	12.85	12.54	12.45	764.86	787.84	839.65	810.08	771.06	808.49
tight junction associated protein 1 (peripheral)	Tjap1	100754717	18.59	16.14	18.00	14.13	11.76	12.30	1377.04	1216.99	1337.73	1060.41	885.95	935.60
tight junction protein 1	Tjp1	100773110	30.27	30.43	26.38	28.57	30.83	28.00	5393.49	5462.75	4722.41	5095.77	5454.38	5031.33
tight junction protein 3	Tjp3	100772461	0.84	0.80	1.07	0.62	0.41	0.45	86.59	86.93	109.30	68.38	49.68	48.60
thymidine kinase 1, soluble	Tk1	100689285	34.87	33.89	22.81	22.90	16.97	19.46	991.96	1015.69	719.17	637.41	451.25	511.26
thymidine kinase 2, mitochondrial	Tk2	100766785	17.58	18.07	19.01	19.17	18.67	20.34	1055.76	1065.10	1131.54	1116.04	1083.63	1191.70
transketolase	Tkt	100774058	183.89	185.83	235.15	206.97	204.64	219.76	10503.67	10650.08	13501.48	11708.57	11695.35	12539.53
transketolase-like 1	Tktl1	100772462	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transketolase-like 2	Tktl2	100754020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TLC domain containing 1	Tlcd1	100762280	10.81	11.60	13.36	13.76	15.25	15.05	258.24	279.09	321.70	309.43	340.51	323.40
TLC domain containing 2	Tlcd2	100765396	0.03	0.04	0.00	0.03	0.05	0.06	1.52	1.83	0.00	1.16	3.10	2.80
TBC/LysM-associated domain containing 1	Tldc1	100772689	5.14	5.31	5.19	5.79	6.00	5.50	288.62	290.07	278.23	314.07	339.48	327.13
TBC/LysM-associated domain containing 2	Tldc2	100755234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	Tle1	100771091	1.87	2.11	1.70	1.53	1.55	1.69	202.04	230.59	178.86	147.18	158.35	181.33
transducin-like enhancer of split 2	Tle2	100760606	1.48	1.64	1.12	1.06	0.84	0.96	144.31	150.98	101.85	98.51	73.48	91.60
transducin-like enhancer of split 3	Tle3	100754091	17.55	17.30	17.65	14.99	11.05	11.67	1802.39	1777.00	1834.56	1526.30	1159.18	1206.66
transducin-like enhancer of split 4	Tle4	100762258	4.01	4.31	4.28	4.41	4.25	4.47	525.60	560.92	583.78	579.46	552.68	585.10
transducin-like enhancer of split 6	Tle6	100769588	0.01	0.02	0.05	0.02	0.00	0.00	1.52	1.83	2.48	2.32	0.00	0.00
tousled-like kinase 1	Tlk1	100766179	21.85	21.79	19.34	21.56	23.21	22.43	3408.81	3473.47	3108.94	3411.86	3634.87	3519.03
tousled-like kinase 2	Tlk2	100771294	19.28	19.08	20.58	21.80	19.65	19.78	2298.37	2303.14	2443.18	2580.91	2322.51	2327.33
tolloid-like 1	Tll1	100755072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tolloid-like 2	Tll2	100756031	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
talin 1	Tln1	100755764	24.22	24.70	26.90	24.79	22.05	23.09	6127.20	6229.55	6785.52	6180.52	5496.81	5796.82
talin 2	Tln2	100770331	6.76	6.80	12.24	11.87	10.13	10.63	1794.03	1841.05	3251.78	3138.36	2699.24	2806.81
toll-like receptor 1	Tlr1	100759973	1.30	1.21	0.37	0.37	0.24	0.15	88.87	80.52	19.87	18.54	13.45	9.35
toll-like receptor 10	Tlr10	100759685	0.03	0.00	0.00	0.04	0.00	0.00	2.28	0.00	0.00	2.32	0.00	0.00
toll-like receptor 2	Tlr2	100771475	2.24	2.57	3.40	3.94	9.26	8.18	214.95	243.40	321.70	384.76	875.60	807.55
toll-like receptor 3	Tlr3	100750454	0.40	0.38	0.40	0.29	0.44	0.32	49.37	43.92	45.96	37.09	53.82	38.32
toll-like receptor 4	Tlr4	100689329	13.28	14.35	18.61	21.63	27.16	25.42	1230.45	1365.23	1773.70	2010.73	2541.93	2392.75
toll-like receptor 5	Tlr5	100772103	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
toll-like receptor 6	Tlr6	100689185	1.33	1.48	0.93	0.95	0.71	0.91	104.06	115.29	80.74	82.28	63.13	86.92
toll-like receptor 7	Tlr7	100767608	0.02	0.03	0.00	0.03	0.04	0.02	1.52	3.66	0.00	2.32	3.10	2.80
toll-like receptor 8	Tlr8	100767319	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
toll-like receptor 9	Tlr9	100771265	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
T-cell leukemia homeobox 1	Tlx1	100751022	0.21	0.40	0.06	0.05	0.24	0.13	11.39	20.13	3.73	2.32	11.38	5.61
TM2 domain containing 1	Tm2d1	100755825	17.63	18.08	17.14	14.61	19.78	18.38	489.90	495.03	479.45	400.99	547.51	489.77
TM2 domain containing 2	Tm2d2	100774168	45.73	46.09	45.46	48.62	49.92	51.63	1435.53	1465.88	1430.88	1517.03	1565.93	1616.98

TM2 domain containing 3	Tm2d3	100771956	31.52	28.58	38.09	34.96	34.04	38.35	761.82	718.30	929.08	854.12	832.13	909.43
transmembrane 4 L six family member 1	Tm4sf1	100758297	9.64	8.24	5.22	6.04	5.97	6.84	315.21	286.41	186.31	203.97	201.82	235.54
transmembrane 4 L six family member 19	Tm4sf19	100761891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
transmembrane 4 L six family member 20	Tm4sf20	100772323	0.00	0.29	0.41	0.13	0.00	0.31	0.00	2.75	6.21	1.16	1.03	2.80
transmembrane 4 L six family member 4	Tm4sf4	100758587	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane 4 L six family member 5	Tm4sf5	100751990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane 6 superfamily member 1	Tm6sf1	100767990	7.46	7.39	6.84	7.89	8.08	7.83	601.56	611.24	561.42	626.98	677.92	648.66
transmembrane 6 superfamily member 2	Tm6sf2	100763183	0.41	0.13	0.17	0.16	0.06	0.08	14.43	8.24	3.73	6.95	6.21	6.54
transmembrane 7 superfamily member 2	Tm7sf2	100766362	0.56	0.46	0.60	0.59	0.60	0.62	47.85	43.92	52.17	42.88	37.26	50.47
transmembrane 7 superfamily member 3	Tm7sf3	103162299	7.05	6.74	8.23	8.04	8.15	8.31	728.40	715.56	881.88	834.42	818.67	830.92
transmembrane 9 superfamily member 1	Tm9sf1	100759608	22.93	22.74	23.50	24.97	24.84	26.22	1466.67	1432.94	1501.68	1585.40	1571.11	1671.19
transmembrane 9 superfamily member 2	Tm9sf2	100766991	60.60	60.01	62.12	65.29	73.06	71.98	4429.63	4434.25	4618.08	4822.27	5352.95	5252.84
transmembrane 9 superfamily member 3	Tm9sf3	100764030	93.83	94.93	95.62	105.42	112.09	109.24	7974.40	8157.52	8279.75	8975.83	9524.98	9267.25
transmembrane 9 superfamily protein member 4	Tm9sf4	100754311	25.53	24.77	23.76	23.94	22.26	22.88	3030.56	2982.09	2844.38	2904.25	2654.74	2749.80
translation machinery associated 16 homolog (S. cerevisiae)	Tma16	100753215	118.89	124.36	109.95	111.10	106.37	96.26	3122.47	3248.37	2874.19	2823.13	2718.91	2465.66
transmembrane BAX inhibitor motif containing 1	Tmbim1	100750818	37.15	33.20	25.86	25.04	23.84	29.29	2348.50	2138.43	1700.42	1605.10	1517.29	1845.04
transmembrane BAX inhibitor motif containing 4	Tmbim4	100767146	35.81	32.79	41.33	40.27	48.20	50.18	882.58	811.63	1047.08	993.19	1198.51	1224.42
transmembrane BAX inhibitor motif containing 6	Tmbim6	100757833	212.81	197.46	219.21	215.16	217.89	239.42	10790.77	10580.53	11350.19	11182.42	11723.29	12208.66
transmembrane channel-like 1	Tmc1	100753378	0.00	0.00	0.00	0.02	0.05	0.00	2.28	0.92	1.24	1.16	7.24	1.87
transmembrane channel-like 2	Tmc2	100751244	0.03	0.07	0.03	0.01	0.01	0.03	6.08	11.90	2.48	2.32	1.03	3.74
transmembrane channel-like 3	Tmc3	100767616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane channel-like 4	Tmc4	100766148	6.86	7.07	6.20	6.22	5.75	5.79	384.33	410.85	372.63	353.47	321.88	319.66
transmembrane channel-like 5	Tmc5	100751309	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.93
transmembrane channel-like 6	Tmc6	100774370	26.59	25.84	30.08	22.67	17.34	18.74	2427.49	2328.76	2742.53	2053.61	1632.17	1728.20
transmembrane channel-like 7	Tmc7	100761991	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane channel-like 8	Tmc8	100774079	1.91	2.18	3.04	1.66	1.06	1.10	278.75	298.30	386.29	217.88	140.76	140.20
transmembrane and coiled-coil domain family 1	Tmcc1	100771412	9.92	9.39	10.15	11.23	9.77	9.36	786.12	733.86	832.20	885.41	792.80	755.21
transmembrane and coiled-coil domain family 2	Tmcc2	100754306	3.22	3.49	4.23	2.84	2.56	2.89	329.64	351.37	429.76	288.57	260.82	289.75
transmembrane and coiled-coil domain family 3	Tmcc3	100765845	0.60	0.60	0.01	0.01	0.01	0.02	78.99	79.61	1.24	1.16	1.03	1.87
transmembrane and coiled-coil domains 1	Tmco1	100758664	66.74	68.37	70.30	70.59	80.65	80.81	2257.35	2326.93	2376.11	2334.06	2704.42	2687.18
transmembrane and coiled-coil domains 2	Tmco2	100752424	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.00	1.87

transmembrane and coiled-coil domains 3	Tmco3	100757323	11.51	12.01	14.57	15.04	16.82	17.13	997.27	1063.27	1289.29	1339.71	1495.56	1503.88
transmembrane and coiled-coil domains 4	Tmco4	100753234	3.62	3.51	4.93	4.00	3.17	3.28	344.83	353.20	471.99	381.28	304.29	315.92
transmembrane and coiled-coil domains 5A	Tmco5a	100763134	0.04	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane and coiled-coil domains 6	Tmco6	100757348	1.78	1.57	1.81	1.58	1.66	1.31	115.45	111.63	116.76	107.78	103.50	80.38
transmembrane emp24 protein transport domain containing 1	Tmed1	100757205	56.60	54.39	59.34	55.01	45.56	50.35	2128.99	2083.53	2275.50	2070.99	1702.55	1888.03
transmembrane emp24-like trafficking protein 10 (yeast)	Tmed10	100759613	70.58	73.89	72.48	78.32	79.77	77.78	7849.84	8227.07	8099.65	8652.50	8748.74	8616.72
transmembrane emp24 domain trafficking protein 2	Tmed2	100689307	154.68	159.45	163.11	172.29	184.80	181.87	7309.05	7551.77	7749.38	8132.14	8643.17	8596.16
transmembrane emp24 protein transport domain containing 3	Tmed3	100757753	50.41	49.33	23.71	23.89	25.59	25.35	1820.62	1759.61	840.89	842.53	896.30	900.09
transmembrane emp24 protein transport domain containing 4	Tmed4	100764565	70.87	69.33	73.04	73.61	71.39	70.88	2574.08	2582.22	2764.89	2775.61	2768.59	2697.46
transmembrane emp24 protein transport domain containing 5	Tmed5	100764949	44.94	45.24	54.08	52.95	55.23	52.31	1660.35	1668.11	2018.39	1997.98	2043.06	1945.05
transmembrane emp24 protein transport domain containing 6	Tmed6	100760131	0.59	0.42	0.31	0.52	0.62	0.47	37.98	29.28	17.39	33.61	38.29	31.78
transmembrane emp24 protein transport domain containing 8	Tmed8	100764153	1.85	1.88	2.28	2.32	2.84	2.60	382.05	384.31	476.96	486.75	580.63	537.44
transmembrane emp24 protein transport domain containing 9	Tmed9	100769941	146.73	139.77	147.63	126.65	107.95	120.30	5628.95	5398.70	5701.18	4876.73	4127.53	4599.51
transmembrane protein with EGF-like and two follistatin-like domains 1	Tmeff1	100757893	7.63	7.88	9.59	9.10	10.26	9.95	506.61	530.72	627.25	607.27	658.25	644.92
transmembrane protein with EGF-like and two follistatin-like domains 2	Tmeff2	100772386	5.33	5.70	7.92	7.67	6.85	7.70	157.22	171.11	233.51	219.04	201.82	211.24
transmembrane protein 100	Tmem100	100759683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 101	Tmem101	100752919	45.41	42.32	56.51	48.78	38.97	42.20	1083.10	1033.99	1428.40	1285.24	1180.92	1238.44
transmembrane protein 102	Tmem102	100759389	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 104	Tmem104	100773756	7.82	7.36	8.60	7.86	6.15	7.03	789.92	761.31	884.37	817.04	664.46	744.00
transmembrane protein 105	Tmem105	103162286	0.00	0.00	0.00	0.00	0.00	0.00	3.80	2.75	2.48	5.79	4.14	0.93
transmembrane protein 106A	Tmem106a	100771590	2.52	3.07	2.23	2.43	2.34	2.69	160.26	196.73	132.90	149.50	161.46	162.63
transmembrane protein 106B	Tmem106b	100763634	28.26	30.54	32.19	35.58	42.74	41.46	1569.21	1712.03	1827.11	2002.61	2365.98	2315.18
transmembrane protein 106C	Tmem106c	100755506	100.05	97.23	119.93	129.65	138.95	147.92	4230.63	4134.12	5073.92	5457.35	5856.99	6175.36
transmembrane protein 107	Tmem107	100761242	3.04	3.06	4.90	4.18	9.79	8.82	70.64	69.54	108.06	95.03	221.49	201.89
transmembrane protein 108	Tmem108	100762196	0.77	0.71	0.20	0.13	0.18	0.31	78.23	75.03	21.12	10.43	17.59	30.84
transmembrane protein 109	Tmem109	100774426	60.25	56.46	56.63	53.02	43.65	48.04	2996.38	2805.49	2876.67	2620.32	2145.53	2390.89
transmembrane protein 11	Tmem11	100773664	32.56	30.05	31.82	28.83	23.81	25.20	1056.52	996.47	1052.05	954.95	764.85	823.44

transmembrane protein 114	Tmem114	100766262	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 115	Tmem115	100751257	26.81	26.49	31.97	26.84	20.27	20.54	1574.52	1561.96	1887.97	1581.93	1187.13	1215.07
transmembrane protein 116	Tmem116	100762787	7.04	7.21	3.66	4.17	5.44	4.58	287.87	312.94	171.41	185.43	229.77	196.28
transmembrane protein 117	Tmem117	103161598	0.26	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 119	Tmem119	100754598	0.04	0.10	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
transmembrane protein 120A	Tmem120a	100762905	3.71	4.30	5.61	4.42	3.64	4.98	142.79	160.13	217.37	169.20	141.79	173.85
transmembrane protein 120B	Tmem120b	100767646	4.19	4.31	3.95	4.69	4.15	4.32	236.98	208.63	197.49	221.35	176.98	210.30
transmembrane protein 121	Tmem121	100754344	2.87	2.60	2.62	1.17	0.71	0.74	129.88	118.95	116.76	52.15	32.08	37.39
transmembrane protein 123	Tmem123	100761122	6.82	8.12	5.74	6.40	7.40	6.43	376.73	443.79	311.76	349.99	407.78	353.31
transmembrane protein 125	Tmem125	100768817	0.07	0.09	0.00	0.04	0.00	0.00	2.28	2.75	0.00	1.16	0.00	0.00
transmembrane protein 126A	Tmem126a	100760715	14.99	15.60	16.27	15.62	15.71	16.08	925.12	970.85	998.64	941.04	964.61	963.64
transmembrane protein 126B	Tmem126b	100760417	60.72	57.41	68.19	71.11	83.07	82.69	1361.09	1281.05	1542.67	1562.22	1835.03	1808.59
transmembrane protein 127	Tmem127	100758246	15.24	15.15	18.02	16.76	18.54	19.26	1681.62	1649.81	2005.97	1863.54	2004.77	2124.50
transmembrane protein 128	Tmem128	100773666	65.01	63.76	62.13	62.38	68.32	73.76	1329.95	1319.48	1280.59	1325.80	1389.99	1524.45
transmembrane protein 129	Tmem129	100765535	51.72	49.90	54.21	56.74	55.76	54.64	3529.58	3369.15	3625.65	3635.53	3488.94	3446.13
transmembrane protein 130	Tmem130	100763418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane protein 131	Tmem131	100771946	19.96	20.64	19.18	19.75	18.28	17.42	3239.43	3343.53	3137.51	3142.99	2866.91	2746.06
transmembrane protein 132A	Tmem132a	100774718	21.30	20.38	26.13	16.11	8.24	9.11	1986.95	1916.08	2449.40	1482.26	785.55	855.22
transmembrane protein 132B	Tmem132b	100751479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 132C	Tmem132c	100761178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 132D	Tmem132d	100762048	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 132E	Tmem132e	100774528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 134	Tmem134	100764493	7.22	7.29	11.90	9.29	8.47	9.58	202.04	200.39	320.46	250.33	224.59	251.43
transmembrane protein 135	Tmem135	100774720	12.55	12.54	12.11	12.34	16.01	14.82	553.70	562.75	580.05	540.06	684.13	600.06
transmembrane protein 136	Tmem136	100764204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 138	Tmem138	100764730	9.02	7.99	8.83	9.13	10.16	10.83	356.22	306.54	341.57	356.95	399.50	421.54
transmembrane protein 139	Tmem139	100750985	0.03	0.04	0.00	0.00	0.00	0.00	2.28	0.92	0.00	0.00	0.00	0.00

transmembrane protein 140	Tmem140	100763129	4.09	4.15	5.87	4.94	4.43	3.94	214.95	221.44	283.20	237.58	227.70	187.87
transmembrane protein 141	Tmem141	100760946	5.39	5.19	6.03	4.39	4.47	5.07	156.47	157.39	154.02	146.02	145.93	143.00
transmembrane protein 143	Tmem143	100751205	1.60	1.64	1.98	1.45	1.49	1.30	126.84	127.19	157.75	114.73	116.95	107.49
transmembrane protein 144	Tmem144	100763761	0.00	0.00	5.37	5.27	4.50	4.65	0.76	0.92	331.64	304.80	256.68	250.49
transmembrane protein 145	Tmem145	100755885	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
transmembrane protein 147	Tmem147	100751744	152.55	137.70	161.43	150.50	116.39	145.02	2874.10	2668.24	3081.62	2846.31	2224.19	2649.79
transmembrane protein 14A	Tmem14a	100752872	22.96	25.02	18.88	21.99	23.57	25.02	656.24	707.32	556.45	610.75	665.50	708.48
transmembrane protein 14C	Tmem14c	100763120	89.61	89.36	95.22	94.21	104.54	106.73	3658.70	3594.25	3790.85	3589.17	3884.30	3987.30
transmembrane protein 150A	Tmem150a	100773618	18.34	17.35	21.95	20.12	12.66	14.83	757.26	709.15	899.27	815.88	507.14	614.08
transmembrane protein 150B	Tmem150b	100772661	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 150C	Tmem150c	100767602	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 151A	Tmem151a	100763330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 151B	Tmem151b	100757694	10.56	10.14	12.57	12.26	13.30	14.12	1241.85	1199.61	1504.17	1461.40	1570.07	1687.08
transmembrane protein 154	Tmem154	100762239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 156	Tmem156	100759688	0.22	0.19	0.13	0.12	0.19	0.19	16.71	10.98	11.18	10.43	11.38	13.09
transmembrane protein 159	Tmem159	100770586	9.39	9.30	10.28	9.92	8.79	10.60	355.46	347.71	390.02	370.85	330.16	394.43
transmembrane protein 160	Tmem160	100752783	18.95	21.48	14.34	6.79	4.48	3.23	186.09	178.43	163.96	76.49	42.43	33.65
transmembrane protein 161A	Tmem161a	100764636	17.15	17.61	19.75	16.44	15.26	14.43	1195.51	1229.81	1397.35	1151.97	1037.06	1041.22
transmembrane protein 161B	Tmem161b	100750852	8.83	10.07	7.60	8.25	9.92	9.35	571.93	628.63	516.71	537.74	641.69	594.45
transmembrane protein 163	Tmem163	100761336	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 164	Tmem164	100759923	5.55	6.43	6.65	5.81	5.26	7.11	124.56	136.34	149.05	117.05	126.27	150.48
transmembrane protein 165	Tmem165	100770946	31.72	33.08	36.20	40.17	40.95	38.66	1289.70	1349.67	1466.90	1607.42	1619.75	1505.75
transmembrane protein 167A	Tmem167a	100772159	46.22	44.60	47.36	52.17	56.78	56.19	3659.46	3537.52	3787.12	4130.39	4495.98	4510.72
transmembrane protein 167B	Tmem167b	100767125	29.99	30.25	36.31	36.07	45.13	44.84	2556.61	2579.48	3108.94	3053.75	3800.47	3802.24
transmembrane protein 168	Tmem168	100763355	23.38	25.16	26.78	30.76	31.30	30.84	2493.57	2692.94	2871.70	3287.86	3349.22	3296.58
transmembrane protein 169	Tmem169	100753712	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 17	Tmem17	100770149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transmembrane protein 170A	Tmem170a	100768282	3.64	3.65	3.48	3.67	5.32	5.23	139.76	132.68	130.42	120.53	172.84	186.00
transmembrane protein 170B	Tmem170b	100763981	1.48	1.49	0.00	0.00	0.00	0.00	317.49	319.35	0.00	0.00	0.00	0.00
transmembrane protein 171	Tmem171	100758368	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	1.24	1.16	0.00	1.87
transmembrane protein 173	Tmem173	100758381	0.10	0.02	0.02	0.04	0.06	0.05	7.60	1.83	1.24	2.32	5.17	2.80
transmembrane protein 174	Tmem174	100756566	0.05	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 175	Tmem175	100767371	21.85	21.56	26.14	24.18	19.31	20.02	1456.04	1415.56	1758.79	1580.77	1312.36	1383.31
transmembrane protein 176A	Tmem176a	100764250	4.42	3.94	0.19	0.50	0.08	0.00	126.08	113.46	6.21	12.75	2.07	0.00
transmembrane protein 176B	Tmem176b	100764547	4.84	3.74	0.49	0.70	0.03	0.19	157.22	118.04	17.39	24.34	1.03	6.54
transmembrane protein 177	Tmem177	100762213	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane protein 178A	Tmem178a	100762056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 178B	Tmem178b	100774962	0.09	0.08	0.11	0.16	0.12	0.19	3.80	3.66	6.21	6.95	9.31	9.35
transmembrane protein 179	Tmem179	100768694	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane protein 179B	Tmem179b	100753473	3.34	3.31	3.46	2.86	5.42	4.32	195.20	181.18	197.49	198.18	228.73	243.01
transmembrane protein 18	Tmem18	100774381	22.42	24.54	21.17	24.33	23.10	21.75	508.89	592.94	522.92	559.76	551.65	543.04
transmembrane protein 180	Tmem180	100752757	0.07	0.09	0.00	0.02	0.03	0.00	4.56	7.32	0.00	1.16	2.07	0.93
transmembrane protein 181	Tmem181	100762829	11.51	10.65	11.48	13.71	12.55	13.02	1530.47	1422.88	1550.12	1809.07	1675.64	1702.03
transmembrane protein 182	Tmem182	100757008	0.00	0.06	0.00	0.00	0.07	0.06	1.52	0.92	2.48	1.16	2.07	3.74
transmembrane protein 183A	Tmem183a	100751927	25.32	26.37	30.23	31.11	34.92	36.17	2305.96	2412.03	2722.65	2775.61	3123.59	3224.61
transmembrane protein 184A	Tmem184a	100763554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
transmembrane protein 184B	Tmem184b	100766352	11.42	10.63	10.71	9.07	6.96	7.49	1108.93	1025.75	1065.71	893.53	693.44	708.48
transmembrane protein 184C	Tmem184c	100773881	24.98	26.63	26.77	27.58	35.15	31.26	1646.68	1766.93	1796.06	1798.64	2271.79	2038.51
transmembrane protein 185A	Tmem185a	103163527	20.52	20.31	21.87	23.98	25.11	26.97	1485.66	1477.78	1596.08	1745.33	1793.63	1960.00
transmembrane protein 185B	Tmem185b	100757584	23.24	23.67	22.10	22.42	22.96	22.81	1264.63	1294.77	1218.49	1218.02	1249.23	1257.13
transmembrane protein 186	Tmem186	100769346	29.62	28.92	33.39	33.45	31.57	32.46	1753.78	1744.97	2033.30	2030.43	1948.88	1986.17
transmembrane protein 187	Tmem187	100774205	0.09	0.11	0.00	0.18	0.28	0.25	50.13	62.22	36.02	67.22	69.34	82.25
transmembrane protein 190	Tmem190	100773819	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.92	1.24	0.00	0.00	0.93
transmembrane protein 191C	Tmem191c	100755758	0.39	0.45	0.50	0.47	0.47	0.20	22.79	25.62	27.33	23.18	21.73	9.35

transmembrane protein 192	Tmem192	100754499	18.35	18.22	20.90	21.64	23.12	23.01	1487.94	1491.50	1721.53	1753.45	1871.26	1872.14
transmembrane protein 194A	Tmem194a	100762649	6.25	6.16	5.24	5.19	6.38	6.31	330.40	321.18	295.62	297.84	352.93	342.09
transmembrane protein 194B	Tmem194b	100751415	3.63	3.86	4.72	4.21	5.01	5.14	195.20	216.86	269.53	234.10	306.36	303.77
transmembrane protein 196	Tmem196	100772701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 198	Tmem198	100766151	0.47	0.47	0.49	0.25	0.18	0.20	37.98	37.52	37.26	17.38	19.66	14.95
transmembrane protein 199	Tmem199	100758701	24.51	25.49	28.15	28.43	29.42	29.56	1004.11	1044.97	1160.11	1169.35	1186.09	1189.83
transmembrane protein 2	Tmem2	100759479	2.55	2.82	2.42	2.49	2.56	2.77	393.44	435.56	377.59	391.71	395.36	434.62
transmembrane protein 200A	Tmem200a	100762208	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	1.16	1.03	0.93
transmembrane protein 200C	Tmem200c	100752153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 201	Tmem201	100769513	7.13	7.30	6.20	4.17	2.73	2.81	845.37	856.47	735.32	499.49	316.71	329.94
transmembrane protein 202	Tmem202	100755353	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.92	0.00	2.32	1.03	0.00
transmembrane protein 203	Tmem203	100750734	9.52	9.92	14.59	12.47	12.13	11.71	351.67	382.48	531.61	454.30	444.01	450.51
transmembrane protein 204	Tmem204	100750481	0.05	0.00	0.08	0.00	0.00	0.00	0.76	0.00	3.73	2.32	1.03	0.00
transmembrane protein 206	Tmem206	100764103	18.91	18.22	19.85	17.85	14.93	16.70	810.43	801.57	853.31	757.93	646.87	715.02
transmembrane protein 207	Tmem207	100751504	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 208	Tmem208	100760614	31.53	31.90	43.80	38.20	37.78	40.99	702.57	728.37	945.23	835.58	836.27	875.79
transmembrane protein 209	Tmem209	100755824	21.14	22.46	21.12	21.89	23.79	23.22	1633.01	1735.82	1625.89	1676.96	1817.44	1750.64
transmembrane protein 210	Tmem210	100774345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 211	Tmem211	100761866	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 212	Tmem212	100756720	0.00	0.00	0.17	0.08	0.14	0.19	0.00	0.00	4.97	4.64	2.07	4.67
transmembrane protein 213	Tmem213	100770059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 214	Tmem214	100761817	9.79	9.99	10.85	9.92	7.61	8.35	815.75	831.77	903.00	820.52	635.48	680.44
transmembrane protein 215	Tmem215	100765154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 216	Tmem216	100772399	19.76	20.21	14.29	16.04	18.69	17.38	533.96	545.36	388.77	431.12	497.83	460.79
transmembrane protein 218	Tmem218	100756218	17.35	15.85	17.82	18.48	23.27	19.98	420.03	409.02	428.52	470.52	589.94	531.83
transmembrane protein 219	Tmem219	100774511	43.59	43.15	45.30	45.11	37.96	41.95	1283.62	1288.37	1259.48	1224.98	1096.05	1145.91
transmembrane protein 220	Tmem220	100770411	2.02	2.56	3.22	3.42	3.63	3.83	149.63	171.11	213.64	235.26	252.54	262.64

transmembrane protein 221	Tmem221	100750472	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	2.07	0.93
transmembrane protein 222	Tmem222	100760724	23.94	20.59	22.21	25.25	29.63	27.41	364.58	329.41	355.24	367.38	416.06	413.12
transmembrane protein 223	Tmem223	100753775	75.81	68.01	74.21	56.18	52.40	56.64	1315.52	1191.37	1289.29	961.90	889.05	979.53
transmembrane protein 225	Tmem225	100760517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 229A	Tmem229a	100760582	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 229B	Tmem229b	100761341	6.20	6.40	6.05	5.97	4.77	5.18	670.67	702.75	662.03	650.15	525.77	563.61
transmembrane protein 230	Tmem230	100761638	37.91	42.95	45.15	44.64	50.01	51.63	1029.18	1156.60	1235.88	1212.23	1348.59	1415.09
transmembrane protein 231	Tmem231	100767701	7.74	8.65	9.40	9.49	10.75	10.62	641.81	710.07	786.24	781.11	883.88	876.72
transmembrane protein 232	Tmem232	100757866	0.33	0.32	0.37	0.42	0.55	0.24	31.14	29.28	29.81	31.29	38.29	17.76
transmembrane protein 233	Tmem233	100759565	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protein 234	Tmem234	100759600	12.60	12.56	23.75	16.75	13.98	15.09	217.23	243.40	408.65	314.07	251.50	276.66
transmembrane protein 235	Tmem235	100769843	0.26	0.17	0.55	0.24	0.33	0.32	14.43	11.90	22.36	12.75	17.59	19.63
transmembrane protein 236	Tmem236	100771879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 237	Tmem237	100763363	13.86	13.29	18.33	17.26	22.30	21.84	828.66	806.14	1070.68	1004.78	1296.84	1266.48
transmembrane protein 238	Tmem238	103164344	1.34	1.32	1.35	1.16	0.93	1.04	105.58	107.97	104.34	103.14	84.87	100.01
transmembrane protein 239	Tmem239	100771084	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 240	Tmem240	100765368	1.04	1.29	1.66	0.51	0.49	0.41	32.66	41.18	52.17	15.07	14.49	11.22
transmembrane protein 241	Tmem241	100756753	3.84	3.25	3.39	4.08	2.89	4.75	191.40	186.67	177.62	212.08	166.63	232.73
transmembrane protein 242	Tmem242	100771103	30.94	27.19	28.77	28.08	32.41	31.14	1017.02	915.03	955.16	952.63	1067.07	1016.92
transmembrane protein 243, mitochondrial	Tmem243	100760624	22.04	20.45	26.91	25.17	29.01	31.26	398.00	366.93	503.05	418.37	505.07	543.04
transmembrane protein 244	Tmem244	103163001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 245	Tmem245	100766587	5.50	5.79	6.66	7.63	7.94	7.69	416.99	452.03	510.50	586.41	614.78	582.30
transmembrane protein 246	Tmem246	100754890	2.45	1.84	2.14	1.82	2.39	2.46	133.68	106.14	122.97	112.42	132.48	145.81
transmembrane protein 247	Tmem247	100765758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transmembrane protein 248	Tmem248	100751620	14.09	12.94	16.34	16.63	14.97	15.21	1295.77	1208.76	1543.91	1526.30	1374.46	1420.70
transmembrane protein 249	Tmem249	103159760	0.39	0.19	0.44	0.36	0.16	0.34	18.99	8.24	19.87	13.91	18.63	14.95
transmembrane protein 25	Tmem25	100758390	0.33	0.29	0.18	0.34	0.23	0.39	26.58	23.79	17.39	23.18	20.70	29.91

transmembrane protein 251	Tmem251	100768158	18.18	15.76	18.26	20.25	19.95	18.82	322.04	260.78	319.22	360.42	357.07	327.13
transmembrane protein 252	Tmem252	100770878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 253	Tmem253	103159964	0.25	0.24	0.16	0.19	0.23	0.20	20.51	18.30	21.12	22.02	23.80	18.69
transmembrane protein 254	Tmem254	100753036	1.44	0.86	0.86	0.90	0.87	0.73	29.62	27.45	27.33	31.29	30.01	20.56
transmembrane protein 255A	Tmem255a	100763127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 255B	Tmem255b	100751012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 256	Tmem256	100764915	42.10	41.29	39.76	38.46	44.04	38.61	465.60	440.13	419.83	362.74	400.54	367.33
transmembrane protein 257	Tmem257	103162189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 259	Tmem259	100753927	92.88	89.82	83.28	66.17	48.83	54.94	1866.95	1834.64	1684.27	1315.37	996.69	1088.89
transmembrane protein 26	Tmem26	100755563	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 260	Tmem260	100767682	3.14	3.01	3.38	3.53	4.64	4.65	477.75	470.33	527.89	544.69	711.04	695.39
transmembrane protein 262	Tmem262	100767526	1.01	0.93	0.45	0.85	0.85	0.61	34.18	37.52	21.12	27.81	20.70	23.37
transmembrane protein 263	Tmem263	100761080	40.18	40.33	44.89	45.92	50.19	50.84	1898.85	1947.19	2166.20	2175.29	2391.85	2447.90
transmembrane protein 27	Tmem27	100772257	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 30A	Tmem30a	100756251	30.71	31.91	32.54	36.04	40.88	36.57	3003.98	3140.40	3229.43	3542.82	4004.36	3586.33
transmembrane protein 30B	Tmem30b	100751875	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 33	Tmem33	100766549	31.40	31.31	34.63	37.90	42.75	41.76	2608.26	2633.47	2824.51	2961.04	3329.55	3261.06
transmembrane protein 35	Tmem35	100771279	0.07	0.18	0.00	0.00	0.00	0.19	0.76	2.75	0.00	0.00	0.00	1.87
transmembrane protein 37	Tmem37	100758447	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 38A	Tmem38a	100755067	1.82	1.59	1.99	1.67	1.18	1.32	227.10	207.71	226.06	206.29	184.23	180.39
transmembrane protein 38B	Tmem38b	100762094	22.53	22.05	19.05	18.40	20.14	19.94	1504.65	1458.56	1281.83	1230.77	1355.83	1381.44
transmembrane protein 39A	Tmem39a	100758103	32.44	32.52	32.46	31.95	31.13	31.79	1945.94	1940.79	1957.53	1904.11	1871.26	1901.12
transmembrane protein 39B	Tmem39b	100760474	20.72	18.40	20.13	16.35	11.39	11.88	1018.54	926.93	1057.02	833.26	579.59	613.14
transmembrane protein 40	Tmem40	100769883	6.55	5.46	2.72	2.19	4.54	4.08	214.95	179.35	88.19	79.97	142.83	135.53
transmembrane protein 41A	Tmem41a	100755275	12.20	11.78	15.17	13.86	12.83	14.07	492.18	473.99	611.11	549.33	507.14	566.41
transmembrane protein 41B	Tmem41b	100768380	23.48	22.88	26.03	26.32	28.65	27.97	1478.06	1452.16	1620.92	1675.80	1801.91	1747.83
transmembrane protein 42	Tmem42	100762638	16.02	15.62	20.85	21.07	18.43	18.05	470.15	464.84	621.04	617.70	544.40	531.83

transmembrane protein 43	Tmem43	100764416	49.17	52.47	68.79	69.97	66.55	67.44	4250.38	4525.76	5954.56	6017.11	5686.21	5822.06
transmembrane protein 44	Tmem44	100773464	5.97	6.03	5.08	4.86	3.52	3.43	381.29	380.65	319.22	310.59	217.35	213.10
transmembrane protein 45B	Tmem45b	100757175	0.04	0.00	0.00	0.03	0.00	0.00	6.08	0.92	2.48	5.79	2.07	0.93
transmembrane protein 47	Tmem47	100767998	0.08	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.00	0.00	0.00	0.00
transmembrane protein 5	Tmem5	100757873	30.49	28.41	30.25	30.95	30.65	32.33	1153.74	1099.87	1153.90	1155.44	1140.55	1201.05
transmembrane protein 50A	Tmem50a	100752566	68.62	67.80	66.01	75.23	79.55	84.22	1461.35	1482.35	1463.18	1612.06	1699.45	1755.31
transmembrane protein 50B	Tmem50b	100757829	2.91	2.84	2.67	3.11	3.29	3.72	146.59	142.75	166.44	184.27	211.14	211.24
transmembrane protein 51	Tmem51	100766562	4.73	4.80	4.43	4.39	2.75	3.09	253.69	259.87	240.96	232.94	159.39	164.50
transmembrane protein 52	Tmem52	100755990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 52B	Tmem52b	100773055	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 53	Tmem53	100755631	1.11	1.34	1.10	1.06	0.28	0.46	53.93	69.54	57.14	52.15	17.59	23.37
transmembrane protein 54	Tmem54	100750385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 55A	Tmem55a	100767770	15.62	14.81	17.94	19.03	20.79	21.02	1006.39	959.87	1134.03	1214.55	1323.75	1332.84
transmembrane protein 55B	Tmem55b	100757444	14.70	14.24	17.31	17.45	18.44	18.16	619.02	615.82	735.32	749.82	791.76	786.06
transmembrane protein 57	Tmem57	100762662	10.29	11.24	12.38	13.12	13.83	12.35	724.60	796.99	870.70	935.25	962.54	868.31
transmembrane protein 59	Tmem59	100764310	78.82	82.79	99.96	100.32	106.60	116.86	3152.09	3389.28	4113.79	4072.44	4380.06	4699.52
transmembrane protein 59-like	Tmem59l	100766969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 60	Tmem60	100757990	30.45	26.49	36.19	34.16	33.40	37.11	647.89	573.73	780.03	715.05	703.79	786.06
transmembrane protein 61	Tmem61	100769628	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00	1.03	0.00
transmembrane protein 62	Tmem62	100768893	10.23	9.92	10.42	11.72	14.20	13.75	723.08	731.11	765.13	837.90	1008.08	967.38
transmembrane protein 63A	Tmem63a	100751086	2.66	2.84	2.61	2.50	1.85	2.02	271.92	292.81	269.53	258.44	197.68	210.30
transmembrane protein 63B	Tmem63b	100758557	13.80	13.05	11.93	10.23	9.28	9.25	1079.31	1086.14	977.52	843.69	759.68	758.02
transmembrane protein 63C	Tmem63c	100765330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
transmembrane protein 66	Tmem66	100758545	149.89	144.33	171.31	173.43	179.95	186.96	7542.98	7299.22	8666.04	8681.47	8967.12	9335.48
transmembrane protein 67	Tmem67	100762830	2.71	2.75	2.32	2.93	3.50	3.30	270.40	285.49	233.51	294.37	358.11	325.27
transmembrane protein 68	Tmem68	100754539	4.95	4.90	5.37	5.89	7.48	6.64	369.14	367.84	406.16	440.39	550.61	491.64
transmembrane protein 69	Tmem69	100774937	83.41	86.53	83.83	86.76	95.52	95.23	2261.15	2356.21	2320.22	2339.86	2578.15	2610.53

transmembrane protein 70	Tmem70	100762615	32.20	34.47	35.40	35.96	42.35	38.08	604.59	656.99	674.45	673.33	802.11	720.63
transmembrane protein 71	Tmem71	100761143	2.72	3.42	0.55	0.53	2.14	1.26	20.51	25.62	3.73	4.64	16.56	6.54
transmembrane protein 72	Tmem72	100759477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 74	Tmem74	100770050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 74B	Tmem74b	100767750	0.00	0.00	0.00	0.07	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
transmembrane protein 79	Tmem79	100755853	0.40	0.35	0.38	0.27	0.26	0.20	25.06	26.54	19.87	19.70	16.56	13.09
transmembrane protein 80	Tmem80	100751385	6.80	6.94	7.09	6.31	6.81	8.48	299.26	305.62	322.94	296.68	338.44	387.89
transmembrane protein 81	Tmem81	100759603	2.86	2.84	3.37	3.80	3.54	3.86	169.38	169.28	197.49	223.67	211.14	225.26
transmembrane protein 82	Tmem82	100771355	0.17	0.05	0.13	0.00	0.00	0.05	3.04	2.75	4.97	1.16	1.03	1.87
transmembrane protein 86A	Tmem86a	100753144	2.24	2.10	2.31	1.67	2.31	2.79	117.73	111.63	119.24	84.60	117.99	147.68
transmembrane protein 86B	Tmem86b	100771800	0.48	0.38	0.23	0.31	0.27	0.18	31.14	20.13	14.91	13.91	12.42	13.09
transmembrane protein 87A	Tmem87a	100759875	22.33	22.39	19.60	21.65	22.70	22.10	1957.33	1989.28	1733.95	1913.38	1990.28	1968.41
transmembrane protein 87B	Tmem87b	100770602	9.97	10.96	9.56	11.40	12.19	11.56	685.10	762.22	693.08	784.59	875.60	783.25
transmembrane protein 88B	Tmem88b	100771424	0.19	0.08	0.00	0.20	0.09	0.08	6.84	1.83	2.48	4.64	3.10	2.80
transmembrane protein 89	Tmem89	100760698	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
transmembrane protein 8A	Tmem8a	100758458	3.00	2.93	2.54	2.75	2.42	2.42	310.65	310.20	265.81	296.68	253.57	252.36
transmembrane protein 8B	Tmem8b	100771785	0.54	0.49	0.52	0.44	0.37	0.44	61.52	46.67	54.65	52.15	41.40	45.80
transmembrane protein 8C	Tmem8c	100752392	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protein 9	Tmem9	100758151	50.12	46.95	54.99	50.13	42.26	46.32	1898.85	1777.91	2080.50	1865.86	1569.04	1749.70
transmembrane protein 91	Tmem91	100773651	0.19	0.08	0.16	0.10	0.22	0.04	5.32	1.83	4.97	2.32	5.17	1.87
transmembrane protein 95	Tmem95	100765490	0.15	0.24	0.24	0.11	0.27	0.24	13.67	22.88	21.12	17.38	15.52	15.89
transmembrane protein 97	Tmem97	100768198	13.22	14.15	12.56	13.21	12.19	11.79	455.72	495.95	439.70	453.14	421.24	400.04
transmembrane protein 98	Tmem98	100762391	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TMEM9 domain family, member B	Tmem9b	100751770	11.44	11.99	21.63	22.29	22.82	23.32	537.75	577.39	1013.54	1016.37	1066.04	1066.46
TATA element modulatory factor 1	Tmf1	100756487	12.07	12.12	12.66	14.12	15.88	14.42	1533.51	1530.85	1608.50	1774.31	1977.86	1793.63
transmembrane inner ear	Tmie	100766903	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane and immunoglobulin domain containing 1	Tmigd1	100754130	0.20	0.17	0.00	0.07	0.14	0.25	2.28	2.75	0.00	2.32	3.10	1.87
transmembrane and immunoglobulin domain containing 2	Tmigd2	100767660	0.03	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00

trimethyllysine hydroxylase, epsilon	Tmlhe	100757720	7.98	7.30	7.38	8.39	9.52	8.17	384.33	343.14	357.72	400.99	435.73	388.82
tropomodulin 1	Tmod1	100766390	0.03	0.00	0.00	0.00	0.04	0.03	0.76	0.00	0.00	3.48	1.03	2.80
tropomodulin 2 (neuronal)	Tmod2	100764008	0.52	0.97	0.90	0.96	1.00	0.99	31.14	61.31	52.17	63.74	57.96	59.82
tropomodulin 3 (ubiquitous)	Tmod3	100764304	27.36	27.07	29.37	33.74	34.48	32.02	1406.67	1403.66	1573.72	1731.43	1799.84	1703.90
tropomodulin 4 (muscle)	Tmod4	100769079	4.76	4.41	3.23	4.06	3.45	4.24	303.82	290.98	207.43	245.69	209.07	252.36
transmembrane protein with metallophosphoesterase domain	Tmppe	100770229	4.16	4.67	5.36	4.80	4.95	5.21	538.51	613.99	706.75	631.61	639.62	695.39
transmembrane protease, serine 11A	Tmprss11a	100763710	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.92	0.00	0.00	1.03	0.00
transmembrane protease, serine 11B	Tmprss11b	100764295	1.10	1.15	1.59	1.26	1.72	2.11	53.93	61.31	69.56	64.90	84.87	97.21
transmembrane protease, serine 11E	Tmprss11e	100764592	0.00	0.03	0.00	0.04	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
transmembrane protease, serine 11F	Tmprss11f	100763137	0.27	0.28	0.26	0.22	0.55	0.43	33.42	33.86	28.57	28.97	58.99	47.67
transmembrane (C-terminal) protease, serine 12	Tmprss12	100763916	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protease, serine 13	Tmprss13	100771347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protease, serine 15	Tmprss15	100754500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protease, serine 2	Tmprss2	100764056	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
transmembrane protease, serine 3	Tmprss3	100760202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protease, serine 4	Tmprss4	100770511	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
transmembrane protease, serine 5	Tmprss5	100768402	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane protease, serine 6	Tmprss6	100762768	1.06	0.98	1.35	1.33	1.04	0.98	209.63	211.37	305.55	270.03	192.51	207.50
transmembrane protease, serine 7	Tmprss7	100764328	0.06	0.00	0.00	0.02	0.05	0.00	6.08	3.66	0.00	2.32	4.14	0.93
transmembrane protease, serine 9	Tmprss9	100760873	0.03	0.00	0.00	0.00	0.01	0.03	3.80	2.75	0.00	2.32	1.03	4.67
thymosin beta 10	Tmsb10	103164080	609.75	694.62	513.33	511.25	394.71	414.44	3079.93	3478.04	2497.84	2315.52	1883.68	1848.78
thymosin beta 15a	Tmsb15a	100767589	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
thymosin beta 15B	Tmsb15b	100756468	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane and tetratricopeptide repeat containing 1	Tmtc1	100763309	1.34	1.12	0.14	0.45	0.00	0.00	37.98	28.37	3.73	10.43	0.00	0.00
transmembrane and tetratricopeptide repeat containing 2	Tmtc2	100750470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transmembrane and tetratricopeptide repeat containing 3	Tmtc3	100752433	17.16	16.91	18.12	19.63	22.78	22.10	2973.60	2961.96	3203.34	3446.63	3959.86	3839.62
transmembrane and tetratricopeptide repeat containing 4	Tmtc4	100766112	5.84	6.21	7.74	8.20	9.95	9.72	724.60	782.35	994.91	1001.31	1198.51	1158.99
transmembrane and ubiquitin-like domain containing 1	Tmub1	100761844	7.52	8.32	9.35	7.73	5.03	5.23	341.79	372.42	449.64	353.47	242.19	256.10
transmembrane and ubiquitin-like domain containing 2	Tmub2	100754122	21.09	20.24	17.20	16.31	12.77	14.13	1287.42	1260.92	1073.16	997.83	795.90	869.24

thioredoxin-related transmembrane protein 1	Tmx1	100760960	60.10	60.80	61.36	64.57	74.20	78.21	3968.59	4038.04	4076.53	4284.53	4888.24	5117.32
thioredoxin-related transmembrane protein 2	Tmx2	100755000	77.04	76.73	86.93	87.02	91.91	89.13	4115.94	4119.48	4662.79	4607.87	4834.42	4726.62
thioredoxin-related transmembrane protein 3	Tmx3	100771411	43.65	46.43	60.45	66.68	71.63	67.50	5811.23	6223.14	8130.70	8881.96	9511.52	8942.92
thioredoxin-related transmembrane protein 4	Tmx4	100752266	9.98	11.64	11.39	12.54	13.32	13.39	442.81	526.14	505.53	553.96	585.80	592.58
tenascin C	Tnc	100754133	0.02	0.03	0.01	0.01	0.00	0.01	3.04	6.41	1.24	1.16	0.00	1.87
tumor necrosis factor	Tnf	100764780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor, alpha-induced protein 1 (endothelial)	Tnfaip1	100758992	31.90	29.93	34.70	33.97	32.05	35.62	3442.99	3250.20	3767.25	3683.05	3422.70	3865.79
tumor necrosis factor, alpha-induced protein 2	Tnfaip2	100774266	3.92	3.96	3.69	3.65	2.88	3.06	315.21	333.07	295.62	296.68	227.70	245.82
tumor necrosis factor, alpha-induced protein 3	Tnfaip3	100771931	27.36	27.67	15.27	16.80	20.57	20.78	3428.56	3517.39	1950.08	2142.84	2601.96	2622.68
tumor necrosis factor, alpha-induced protein 6	Tnfaip6	100772105	0.58	0.63	0.00	0.00	0.03	0.05	22.79	24.71	0.00	1.16	1.03	1.87
tumor necrosis factor, alpha-induced protein 8	Tnfaip8	100772554	5.48	6.26	6.53	7.73	6.59	6.83	233.18	269.02	275.74	317.54	274.27	284.14
tumor necrosis factor, alpha-induced protein 8-like 1	Tnfaip8l1	100757308	4.19	4.41	4.39	4.32	3.92	4.30	506.61	546.28	546.52	543.53	496.79	568.28
tumor necrosis factor, alpha-induced protein 8-like 2	Tnfaip8l2	100768501	0.12	0.18	0.12	0.08	0.07	0.12	3.80	4.58	3.73	3.48	0.00	2.80
tumor necrosis factor, alpha-induced protein 8-like 3	Tnfaip8l3	100771513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor receptor superfamily, member 11a, NFKB activator	Tnfrsf11a	100753416	0.03	0.03	0.00	0.02	0.00	0.00	1.52	1.83	0.00	1.16	0.00	0.00
tumor necrosis factor receptor superfamily, member 11b	Tnfrsf11b	100754507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor receptor superfamily, member 12A	Tnfrsf12a	100768739	258.19	251.89	202.96	149.08	89.16	99.60	7031.05	6873.73	5678.82	4640.32	2934.19	3372.29
tumor necrosis factor receptor superfamily, member 13C	Tnfrsf13c	100762567	0.00	0.09	0.00	0.00	0.00	0.00	0.76	1.83	0.00	1.16	1.03	0.00
tumor necrosis factor receptor superfamily, member 14	Tnfrsf14	100769343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor receptor superfamily, member 17	Tnfrsf17	100753580	0.04	0.13	0.06	0.00	0.00	0.09	3.80	2.75	1.24	0.00	1.03	2.80
tumor necrosis factor receptor superfamily, member 18	Tnfrsf18	100767026	0.21	0.12	0.00	0.00	0.05	0.04	4.56	2.75	0.00	0.00	2.07	0.93
tumor necrosis factor receptor superfamily, member 19	Tnfrsf19	100765517	7.01	6.67	6.32	6.22	5.80	5.67	791.44	759.48	722.89	704.62	648.94	637.44
tumor necrosis factor receptor superfamily, member 1A	Tnfrsf1a	100765017	27.42	24.71	22.18	20.32	19.47	21.33	1842.64	1672.68	1492.99	1368.68	1299.94	1408.55
tumor necrosis factor receptor superfamily, member 1B	Tnfrsf1b	100774542	5.96	5.33	4.19	4.38	3.79	4.13	655.48	600.26	464.54	471.68	413.99	458.92
tumor necrosis factor receptor superfamily, member 21	Tnfrsf21	100768355	28.18	26.89	29.18	29.29	25.01	26.35	2523.19	2417.52	2639.43	2623.79	2229.36	2374.06
tumor necrosis factor receptor superfamily, member 25	Tnfrsf25	100755530	0.08	0.04	0.13	0.07	0.03	0.07	9.11	6.41	13.66	9.27	2.07	5.61
tumor necrosis factor receptor superfamily, member 4	Tnfrsf4	100767308	0.63	0.57	0.14	0.18	0.39	0.31	37.22	42.09	9.94	10.43	21.73	16.82
tumor necrosis factor receptor superfamily, member 8	Tnfrsf8	100762705	0.02	0.03	0.00	0.00	0.09	0.00	1.52	0.92	2.48	0.00	4.14	0.00

tumor necrosis factor receptor superfamily, member 9	Tnfrsf9	100761423	17.57	16.00	7.00	6.97	6.19	7.33	586.36	540.78	238.48	238.74	213.21	233.67
tumor necrosis factor (ligand) superfamily, member 10	Tnfsf10	100754968	0.11	0.21	0.08	0.12	0.02	0.02	5.32	13.73	6.21	8.11	3.10	5.61
tumor necrosis factor (ligand) superfamily, member 11	Tnfsf11	100768715	0.09	0.06	0.08	0.00	0.00	0.00	1.52	0.92	1.24	1.16	0.00	0.00
tumor necrosis factor (ligand) superfamily, member 12	Tnfsf12	100758527	13.13	12.87	13.43	12.64	8.65	11.43	396.48	401.70	402.44	366.22	260.82	343.02
tumor necrosis factor (ligand) superfamily, member 13	Tnfsf13	100763453	0.82	0.76	1.49	1.38	1.51	1.55	34.18	36.60	67.07	64.90	66.24	74.77
tumor necrosis factor (ligand) superfamily, member 13b	Tnfsf13 b	100757266	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.92	0.00	1.16	0.00	0.93
tumor necrosis factor (ligand) superfamily, member 14	Tnfsf14	100763671	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor (ligand) superfamily, member 15	Tnfsf15	100754423	0.22	0.16	0.00	0.00	0.00	0.00	6.84	4.58	0.00	0.00	0.00	0.00
tumor necrosis factor (ligand) superfamily, member 18	Tnfsf18	100754578	0.10	0.12	0.21	0.05	0.18	0.08	2.28	3.66	6.21	1.16	4.14	3.74
tumor necrosis factor (ligand) superfamily, member 4	Tnfsf4	100773775	1.57	1.65	1.66	2.17	2.17	2.06	157.22	161.96	165.20	212.08	205.96	200.95
tumor necrosis factor (ligand) superfamily, member 8	Tnfsf8	100753833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor necrosis factor (ligand) superfamily, member 9	Tnfsf9	100750679	81.64	79.37	113.84	123.18	121.59	113.04	2659.15	2587.71	3707.63	3975.10	3911.21	3658.30
TRAF2 and NCK interacting kinase	Tnik	100772764	2.42	2.41	2.59	2.92	2.38	2.71	423.06	446.54	481.93	535.42	428.48	486.03
TNFAIP3 interacting protein 1	Tnip1	100764935	26.25	26.98	29.91	30.46	27.04	27.84	2336.34	2366.28	2584.78	2601.78	2160.02	2278.72
TNFAIP3 interacting protein 2	Tnip2	100769313	2.92	2.48	2.70	2.60	2.62	2.55	363.06	312.03	336.61	325.66	330.16	319.66
TNFAIP3 interacting protein 3	Tnip3	100757906	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tyrosine kinase, non-receptor, 1	Tnk1	100765201	0.30	0.23	0.12	0.14	0.18	0.17	27.34	10.98	13.66	11.59	12.42	16.82
tyrosine kinase, non-receptor, 2	Tnk2	100754061	11.77	11.29	8.30	6.50	3.48	4.12	1459.07	1403.66	1052.05	815.88	471.95	526.22
tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	Tnks	100756523	10.05	9.69	10.45	11.43	13.36	12.79	2595.35	2530.98	2718.93	2963.36	3423.73	3298.45
tankyrase 1 binding protein 1, 182kDa	Tnks1bp 1	100759238	43.68	42.67	41.37	36.45	27.02	30.26	7245.24	7086.93	6899.79	6064.63	4472.18	5049.09
tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	Tnks2	100769660	19.38	19.34	20.43	22.49	23.58	22.96	3536.41	3574.12	3757.31	4063.17	4272.42	4190.12
tenomodulin	Tnmd	100774855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tenascin N	Tnn	100753104	0.04	0.06	0.07	0.03	0.06	0.05	8.35	9.15	13.66	6.95	8.28	7.48
troponin C type 1 (slow)	Tnnc1	100764205	0.68	0.53	0.10	0.10	0.26	0.31	10.63	10.07	1.24	1.16	5.17	5.61
troponin C type 2 (fast)	Tnnc2	100769291	0.06	0.07	0.19	0.18	0.31	0.14	0.76	1.83	4.97	2.32	4.14	3.74
troponin I type 1 (skeletal, slow)	Tnni1	100756622	1.33	1.28	0.92	0.50	0.63	0.54	47.09	42.09	28.57	19.70	20.70	16.82
troponin I type 2 (skeletal, fast)	Tnni2	100766918	0.06	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
TNNI3 interacting kinase	Tnni3k	100768825	0.01	0.03	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	1.03	0.00
troponin T type 2 (cardiac)	Tnnt2	100756913	0.56	0.92	0.30	0.24	0.11	0.10	44.05	47.58	13.66	6.95	6.21	5.61
troponin T type 3 (skeletal, fast)	Tnnt3	100767498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transition protein 1 (during histone to protamine replacement)	Tnp1	100755165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transportin 1	Tnpo1	100760105	36.44	37.03	34.46	38.08	39.27	36.72	7807.30	7913.21	7302.23	8095.06	8264.37	7895.15
transportin 2	Tnpo2	100759607	34.74	34.10	40.53	37.58	32.63	37.20	5161.83	5151.64	6108.58	5649.73	4859.26	5473.43
transportin 3	Tnpo3	100753994	44.21	42.44	41.58	46.34	47.08	46.42	5130.69	5028.11	4931.08	5412.16	5513.37	5337.90
tenascin R	Tnr	100753701	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	1.03	0.00

trinucleotide repeat containing 18	Tnrc18	100768203	4.08	3.98	5.16	3.52	2.64	2.61	1241.85	1206.01	1597.32	1068.52	808.32	805.69
trinucleotide repeat containing 6A	Tnrc6a	100758607	6.26	6.26	5.57	6.64	6.62	6.24	1408.19	1408.24	1278.11	1500.80	1492.45	1412.29
trinucleotide repeat containing 6B	Tnrc6b	100771313	6.06	5.80	5.04	5.76	5.04	5.34	1048.92	1004.71	870.70	990.88	863.18	914.11
trinucleotide repeat containing 6C	Tnrc6c	100770135	4.12	3.81	4.08	3.36	2.84	3.03	875.75	803.40	869.46	742.87	604.43	653.33
tensin 1	Tns1	100758067	37.64	35.25	20.12	20.73	22.39	22.94	11159.15	10559.49	6096.16	6178.20	6654.96	6813.74
tensin 3	Tns3	100754614	8.42	8.24	8.81	8.66	9.01	9.01	1860.11	1830.98	1968.71	1927.28	2004.77	2026.36
tensin 4	Tns4	100772880	0.01	0.00	0.00	0.00	0.00	0.02	0.76	0.00	0.00	0.00	0.00	0.93
transducer of ERBB2, 1	Tob1	100766688	8.02	7.60	4.03	4.84	4.85	4.28	436.74	417.26	224.82	265.39	263.92	237.41
transducer of ERBB2, 2	Tob2	100758626	2.85	2.73	2.92	3.17	2.73	1.92	141.27	139.09	150.29	165.73	142.83	105.62
target of EGR1, member 1 (nuclear)	Toe1	100752093	15.17	14.99	16.73	15.40	35.50	37.28	849.92	866.54	977.52	888.89	2167.26	2254.42
toll interacting protein	Tollip	100768283	35.84	35.94	43.26	42.20	45.07	48.08	3762.00	3771.77	4548.52	4410.85	4675.03	5036.00
target of myb1 (chicken)	Tom1	100757162	16.81	15.12	18.62	16.28	13.57	14.78	1067.91	945.23	1136.51	986.24	816.60	903.83
target of myb1 (chicken)-like 1	Tom1l1	100758534	0.00	0.02	0.00	0.00	0.00	0.00	41.02	67.71	33.54	30.13	47.61	30.84
target of myb1-like 2 (chicken)	Tom1l2	100754181	6.22	6.33	7.08	6.48	6.04	7.01	759.54	774.12	870.70	818.20	790.73	897.28
translocase of outer mitochondrial membrane 20 homolog (yeast)	Tomm20	100761619	146.49	145.39	145.28	144.90	153.31	162.46	11748.55	11786.55	11798.58	11674.96	12273.90	13061.07
translocase of outer mitochondrial membrane 20 homolog (yeast)-like	Tomm20l	100760379	24.06	27.10	25.84	26.56	25.02	19.65	448.89	511.50	479.45	475.16	444.01	365.46
translocase of outer mitochondrial membrane 22 homolog (yeast)	Tomm22	100774120	140.73	144.80	146.83	146.47	146.39	156.33	3744.53	3872.42	3929.96	3852.25	3860.50	4104.13
translocase of outer mitochondrial membrane 34	Tomm34	100757417	63.35	64.00	67.17	66.11	64.05	71.69	3180.19	3226.41	3424.43	3300.60	3238.47	3586.33
translocase of outer mitochondrial membrane 40 homolog (yeast)	Tomm40	100752231	51.35	51.37	50.42	33.72	17.15	19.61	1541.86	1559.22	1536.46	998.99	526.81	623.42
translocase of outer mitochondrial membrane 40 homolog (yeast)-like	Tomm40l	100769989	12.26	10.80	14.24	13.97	15.05	14.41	445.85	362.35	515.47	434.59	484.37	454.25
translocase of outer mitochondrial membrane 5 homolog (yeast)	Tomm5	100751863	71.68	68.45	69.43	67.72	66.01	66.84	1090.70	1045.88	1054.53	1007.10	990.48	991.68
translocase of outer mitochondrial membrane 6 homolog (yeast)	Tomm6	100770746	152.10	156.80	128.72	126.63	116.87	116.23	2375.84	2436.73	2014.66	1898.31	1800.88	1782.42
translocase of outer mitochondrial membrane 7 homolog (yeast)	Tomm7	100760710	202.34	185.50	167.52	154.06	133.26	161.76	1436.29	1355.16	1161.35	1009.42	914.93	1077.67
translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae)	Tomm70a	100758190	120.81	121.23	116.81	126.04	122.90	118.99	6349.75	6428.11	6240.24	6605.84	6461.42	6258.55
tonsoku-like, DNA repair protein	Tonsl	100761088	6.57	6.80	8.87	7.53	6.62	6.92	865.87	903.14	1170.05	953.79	867.32	921.58
topoisomerase (DNA) I	Top1	100689046	42.98	41.61	41.92	47.45	53.74	46.19	4450.90	4315.30	4372.15	4872.10	5446.10	4738.78
topoisomerase (DNA) I, mitochondrial	Top1mt	100759175	35.36	43.36	44.16	40.96	34.93	39.59	843.09	867.45	862.01	800.81	654.11	696.33
topoisomerase (DNA) II alpha 170kDa	Top2a	100689304	157.74	156.09	87.87	104.80	119.98	108.69	26591.47	26738.19	15131.10	17762.77	20114.96	18110.16
topoisomerase (DNA) II beta 180kDa	Top2b	100770041	39.64	38.09	40.71	47.73	54.39	50.56	6240.37	6117.00	6519.71	7557.32	8597.63	7900.76
topoisomerase (DNA) III alpha	Top3a	100772501	8.11	7.61	9.16	10.61	8.89	9.42	893.22	888.50	1029.69	1133.42	983.24	1025.33
topoisomerase (DNA) III beta	Top3b	100758653	20.14	19.03	23.23	23.20	22.16	21.89	1727.95	1650.72	1987.34	1971.32	1851.59	1856.25
testis and ovary specific PAZ domain containing 1	Topaz1	100765807	0.01	0.00	0.00	0.02	0.00	0.01	0.76	0.00	0.00	2.32	0.00	0.93
topoisomerase (DNA) II binding protein 1	Topbp1	100761910	26.50	27.58	35.48	40.10	43.98	42.06	3999.73	4204.58	5408.05	6031.02	6612.53	6323.04
topoisomerase I binding, arginine/serine-rich, E3 ubiquitin protein ligase	Topors	100765733	10.43	10.23	10.26	10.68	12.30	10.26	1033.73	1012.03	1021.00	1066.21	1211.97	1021.59
torsin family 1, member A (torsin A)	Tor1a	100770400	17.98	17.67	18.97	19.39	18.52	19.16	1401.35	1387.19	1442.06	1438.22	1311.33	1411.35

torsin A interacting protein 1	Tor1aip1	100751143	22.57	22.56	21.57	23.21	24.13	24.92	2694.09	2688.37	2609.62	2828.92	2952.82	3072.26
torsin family 2, member A	Tor2a	100759918	7.92	7.30	7.60	6.66	5.18	5.05	303.82	280.92	283.20	254.96	198.72	201.89
torsin family 3, member A	Tor3a	100774895	11.89	11.45	12.30	12.50	10.79	11.45	622.06	589.28	637.19	637.41	549.58	590.71
torsin family 4, member A	Tor4a	100774055	1.69	1.51	1.12	0.75	0.62	0.54	86.59	79.61	63.35	46.36	45.54	39.26
thymocyte selection-associated high mobility group box	Tox	100772760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOX high mobility group box family member 2	Tox2	100772087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOX high mobility group box family member 3	Tox3	100769072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOX high mobility group box family member 4	Tox4	100774603	40.30	41.06	45.92	46.63	48.15	48.77	3458.18	3564.97	3972.19	4020.29	4132.70	4182.65
tumor protein p53	Tp53	100682525	29.92	28.45	39.26	35.75	34.75	36.94	1847.20	1793.47	2506.53	2271.48	2141.39	2303.96
tumor protein p53 binding protein 1	Tp53bp 1	100767736	19.92	20.05	23.38	23.98	25.43	25.70	3655.66	3701.31	4327.43	4384.19	4630.53	4707.00
tumor protein p53 binding protein, 2	Tp53bp 2	100770953	5.67	6.14	6.25	6.13	6.25	6.01	628.90	668.89	685.63	676.81	692.41	675.77
tumor protein p53 inducible protein 11	Tp53i11	100773199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor protein p53 inducible protein 13	Tp53i13	100756451	11.45	10.85	12.80	9.18	4.30	4.94	597.76	555.43	642.16	449.66	223.56	279.47
tumor protein p53 inducible protein 3	Tp53i3	100760375	0.07	0.03	0.00	0.00	0.03	0.09	4.56	1.83	0.00	0.00	3.10	3.74
tumor protein p53 inducible nuclear protein 1	Tp53inp 1	100758181	3.17	2.90	4.15	5.34	4.68	6.01	341.79	304.71	598.69	631.61	571.31	604.73
tumor protein p53 inducible nuclear protein 2	Tp53inp 2	100751556	0.61	0.66	0.50	0.55	0.55	0.61	39.50	37.52	31.05	31.29	33.12	37.39
TP53 regulating kinase	Tp53rk	100750384	22.58	21.90	20.29	19.04	17.49	19.18	1114.24	1076.08	1012.30	939.88	863.18	948.69
TP53 target 5	Tp53tg5	100764961	0.06	0.11	0.13	0.16	0.06	0.09	7.60	13.73	18.63	17.38	9.31	14.95
tumor protein p63	Tp63	100772309	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tumor protein p73	Tp73	100774060	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
trophoblast glycoprotein	Tpbg	100768196	28.47	29.44	14.89	14.21	15.72	15.40	1434.77	1492.42	760.16	718.53	788.66	776.71
two pore segment channel 1	Tpcn1	100770089	15.09	14.91	16.43	17.12	16.82	18.43	1898.85	1919.74	2094.16	2035.06	2049.27	2216.10
two pore segment channel 2	Tpcn2	100755221	2.01	2.18	2.64	2.67	2.31	2.67	236.98	230.59	285.68	289.73	287.73	306.57
tumor protein D52	Tpd52	100751469	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
tumor protein D52-like 1	Tpd52l1	100753367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.93
tumor protein D52-like 2	Tpd52l2	100763204	220.88	225.93	208.93	206.57	217.06	237.36	10119.34	10161.45	10038.55	9748.83	11259.62	12164.73
tumor protein D52-like 3	Tpd52l3	100761685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin polyglutamylase complex subunit 1	Tpgs1	100762133	3.29	3.42	2.51	1.07	0.59	0.53	145.83	154.64	109.30	46.36	27.94	24.30
tubulin polyglutamylase complex subunit 2	Tpgs2	100761644	13.67	13.63	16.99	17.05	20.45	18.27	668.39	669.80	849.59	856.44	1009.11	947.76
tryptophan hydroxylase 1	Tph1	100767923	0.23	0.23	0.17	0.22	0.32	0.20	14.43	10.98	9.94	15.07	14.49	12.15
tryptophan hydroxylase 2	Tph2	100763947	0.00	0.00	0.07	0.00	0.00	0.00	2.28	0.00	2.48	0.00	1.03	0.00
triosephosphate isomerase 1	Tpi1	100767338	170.32	173.81	170.81	172.41	166.06	163.18	6115.05	6206.67	6191.80	6050.72	5777.29	5767.85
thiamin pyrophosphokinase 1	Tpk1	100768444	10.67	11.98	11.56	11.35	11.15	12.47	616.75	687.19	657.06	596.84	618.92	679.50
tropomyosin 1 (alpha)	Tpm1	100770615	32.89	32.28	33.95	36.84	35.42	33.23	1197.79	1202.35	1218.49	1354.78	1237.84	1158.06

tropomyosin 2 (beta)	Tpm2	100773233	19.01	20.52	20.20	18.51	15.03	15.22	483.83	521.57	524.16	461.25	388.12	392.56
tropomyosin 3	Tpm3	100763482	128.79	145.09	115.30	98.17	98.44	96.07	4849.66	5271.51	4298.86	3707.38	3808.75	3713.44
tropomyosin 4	Tpm4	100761146	272.69	279.87	239.42	250.42	258.68	249.05	18734.79	19366.68	16527.21	17015.26	17504.72	16894.15
thiopurine S-methyltransferase	Tpmt	100767055	12.28	11.61	9.47	12.07	14.51	14.06	540.03	538.95	423.55	527.31	634.45	617.82
thyroid peroxidase	Tpo	100774668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripeptidyl peptidase I	Tpp1	100759190	52.67	49.54	61.79	59.06	58.05	64.82	2691.05	2573.07	3177.26	2972.63	3064.59	3372.29
tripeptidyl peptidase II	Tpp2	100751018	17.36	17.28	19.43	22.05	23.09	22.18	2449.51	2491.64	2789.73	3147.63	3207.42	3101.23
tubulin polymerization promoting protein	Tppp	100761615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin polymerization-promoting protein family member 2	Tppp2	100758674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin polymerization-promoting protein family member 3	Tppp3	100761771	0.13	0.12	0.00	0.26	0.14	0.17	3.80	2.75	0.00	8.11	4.14	3.74
translocated promoter region, nuclear basket protein	Tpr	100753776	54.00	50.76	50.50	64.87	61.30	55.59	12236.94	11548.64	11463.22	14514.31	13692.87	12350.73
transmembrane protein, adipocyte asscociated 1	Tpra1	100768331	9.61	9.23	11.95	10.42	8.59	9.68	500.54	484.97	603.65	522.67	420.20	493.51
tumor protein p63 regulated 1	Tprg1	100773185	0.10	0.10	0.00	0.03	0.02	0.06	6.84	6.41	1.24	2.32	4.14	3.74
tumor protein p63 regulated 1-like	Tprg1l	100769531	69.65	73.91	79.49	75.87	85.66	94.71	2781.43	2946.41	3203.34	3018.99	3414.42	3789.15
TP53RK binding protein	Tprkb	100767700	14.30	13.93	14.87	16.24	19.35	21.37	345.59	337.65	341.57	391.71	448.15	491.64
taperin	Tprn	100750447	3.94	4.74	5.05	4.92	4.21	4.61	242.29	297.39	310.52	311.75	262.89	277.60
tryptase gamma 1	Tpsg1	100762517	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tyrosylprotein sulfotransferase 1	Tpst1	100757649	15.77	15.73	22.74	21.94	19.97	20.10	530.16	518.82	777.55	730.12	671.71	683.24
tyrosylprotein sulfotransferase 2	Tpst2	100771893	15.39	16.05	17.15	13.66	13.10	11.27	786.88	823.53	880.64	699.99	679.99	584.17
tumor protein, translationally-controlled 1	Tpt1	100770904	1979.50	2066.21	2280.90	2358.64	2526.21	2625.51	29492.91	31262.12	34092.80	34367.77	36897.26	37488.67
TPX2, microtubule-associated	Tpx2	100756732	38.92	40.36	41.58	46.81	50.90	51.18	3194.62	3366.41	3470.39	3875.43	4175.13	4142.46
transformer 2 alpha homolog (Drosophila)	Tra2a	100764681	158.52	159.81	161.75	165.64	176.10	161.35	7203.47	7257.13	7344.46	7441.42	7875.21	7282.01
transformer 2 beta homolog (Drosophila)	Tra2b	100756061	166.63	167.66	144.54	140.24	150.98	146.11	7467.79	7639.61	6643.92	6319.59	6868.17	6557.64
TraB domain containing	Trabd	100753444	20.61	19.69	20.27	17.78	14.98	16.43	1467.43	1412.81	1471.87	1258.59	1078.46	1174.88
TraB domain containing 2B	Trabd2b	100758139	6.23	7.21	4.40	4.64	3.64	3.76	644.09	732.94	474.48	485.59	386.05	408.45
TNFRSF1A-associated via death domain	Tradd	100758679	11.03	10.11	8.84	7.59	5.80	6.90	469.40	449.28	398.71	327.97	248.40	286.94
TNF receptor-associated factor 1	Traf1	100756802	4.69	4.65	2.81	2.72	2.61	2.94	283.31	279.09	171.41	163.41	160.42	174.78
TNF receptor-associated factor 2	Traf2	100762099	39.94	39.89	36.58	32.76	27.80	28.57	2442.68	2420.26	2244.45	2001.45	1718.08	1748.77
TNF receptor-associated factor 3	Traf3	100756323	7.27	7.12	6.26	6.65	6.26	6.33	1587.44	1564.71	1377.47	1442.86	1365.15	1375.83
TNF receptor-associated factor 3 interacting protein 1	Traf3ip1	100771421	21.30	20.44	21.80	21.57	21.47	20.75	2224.69	2145.75	2275.50	2292.34	2220.05	2179.65
TRAF3 interacting protein 2	Traf3ip2	100774308	3.30	3.55	3.79	3.44	2.68	2.81	265.84	294.64	309.28	287.41	220.45	235.54
TRAF3 interacting protein 3	Traf3ip3	100762205	0.01	0.05	0.00	0.00	0.00	0.00	2.28	2.75	0.00	0.00	0.00	0.00
TNF receptor-associated factor 4	Traf4	100762863	34.60	34.33	38.97	32.48	21.00	23.23	1883.66	1852.94	2085.46	1730.27	1133.31	1247.78
TNF receptor-associated factor 5	Traf5	100760758	1.16	1.19	0.12	0.19	0.33	0.32	87.35	94.25	11.18	16.22	23.80	22.43
TNF receptor-associated factor 6, E3 ubiquitin protein ligase	Traf6	100753700	5.97	6.21	5.91	6.06	7.19	7.53	487.62	502.35	493.11	493.70	588.91	619.69
TNF receptor-associated factor 7, E3 ubiquitin protein ligase	Traf7	100756531	33.60	31.59	32.93	31.68	25.90	30.05	2700.92	2567.58	2660.55	2536.88	2082.39	2380.60

TRAF-type zinc finger domain containing 1	Trafd1	100761916	23.97	22.92	23.40	22.20	22.56	24.71	1687.70	1657.13	1661.91	1602.79	1591.81	1728.20
TRAF interacting protein	Traip	100759129	14.65	14.91	15.64	15.69	14.30	14.99	846.13	870.20	940.26	908.59	845.58	856.16
trafficking protein, kinesin binding 1	Trak1	100772728	6.43	6.65	6.11	5.71	3.92	4.33	884.86	893.07	848.35	781.11	540.26	589.78
trafficking protein, kinesin binding 2	Trak2	100756850	12.34	12.19	10.35	12.41	12.30	12.86	2037.84	2016.73	1747.62	2052.45	2046.17	2145.07
translocation associated membrane protein 1	Tram1	100773434	15.22	14.56	16.64	18.95	19.27	18.68	1076.27	1044.97	1188.68	1338.55	1365.15	1316.01
translocation associated membrane protein 1-like 1	Tram1l1	100771528	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
translocation associated membrane protein 2	Tram2	100773824	3.05	3.31	2.22	2.71	2.43	2.80	139.00	161.05	91.91	119.37	125.23	126.18
tetratricopeptide repeat and ankyrin repeat containing 1	Trank1	100765447	0.01	0.01	0.00	0.01	0.00	0.01	3.04	4.58	0.00	2.32	1.03	3.74
TNF receptor-associated protein 1	Trap1	100763701	126.32	127.84	143.77	140.85	121.60	121.21	8593.43	8726.67	9793.85	9437.08	8257.12	8169.95
trafficking protein particle complex 1	Trappc1	100762000	11.82	10.74	11.24	11.71	13.66	14.02	234.70	209.54	224.82	241.06	273.24	271.99
trafficking protein particle complex 10	Trappc10	100768912	14.73	14.80	14.58	15.73	14.59	15.78	2205.70	2247.32	2235.76	2419.82	2208.66	2369.39
trafficking protein particle complex 11	Trappc11	100752972	16.65	16.48	17.45	18.46	20.17	20.25	2526.99	2509.02	2656.82	2769.82	3036.65	3031.13
trafficking protein particle complex 12	Trappc12	100764787	23.99	24.17	27.60	23.43	18.95	19.80	2170.00	2186.93	2517.71	2111.55	1704.62	1813.26
trafficking protein particle complex 13	Trappc13	100761869	38.04	35.20	33.26	38.13	42.52	41.69	1020.82	1007.45	967.59	1009.42	1175.74	1170.21
trafficking protein particle complex 2	Trappc2	100768363	21.81	21.34	17.17	19.62	22.30	20.02	733.71	723.79	582.54	650.15	733.81	669.22
trafficking protein particle complex 2-like	Trappc2l	100753676	58.63	49.74	58.37	63.92	66.44	72.27	1213.74	1077.91	1283.08	1375.64	1411.72	1539.40
trafficking protein particle complex 3	Trappc3	100758455	34.78	34.49	41.03	39.93	45.01	43.89	1226.66	1212.42	1430.88	1394.18	1544.20	1492.67
trafficking protein particle complex 4	Trappc4	100758891	104.91	96.31	100.86	101.25	100.89	112.01	2857.39	2689.28	2792.21	2738.53	2726.15	2947.95
trafficking protein particle complex 5	Trappc5	100769309	23.45	25.67	22.33	16.17	14.70	14.38	811.19	898.56	787.48	567.87	530.95	529.02
trafficking protein particle complex 6A	Trappc6a	100754024	11.43	11.03	13.59	9.29	6.30	6.07	288.62	273.60	326.67	222.51	137.65	146.74
trafficking protein particle complex 6B	Trappc6b	100757949	20.93	22.52	16.89	18.05	23.36	19.33	751.18	817.12	622.29	640.88	829.02	698.20
trafficking protein particle complex 8	Trappc8	100750879	9.34	9.38	8.52	10.08	11.60	10.20	1492.49	1497.91	1387.41	1612.06	1850.56	1687.08
tRNA aspartic acid methyltransferase 1	Trdmt1	100773025	11.81	12.85	12.14	14.04	15.64	15.15	874.23	952.55	895.54	1026.80	1145.73	1108.52
triadin	Trdn	100763964	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trehalase (brush-border membrane glycoprotein)	Treh	100759542	0.00	0.00	0.00	0.02	0.02	0.00	0.76	0.92	0.00	1.16	1.03	0.00
triggering receptor expressed on myeloid cells 1	Trem1	103164328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triggering receptor expressed on myeloid cells 2	Trem2	100757821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triggering receptor expressed on myeloid cells-like 1	Treml1	100755211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
triggering receptor expressed on myeloid cells-like 2	Treml2	100754919	0.47	0.12	0.00	0.10	0.00	0.00	15.95	5.49	3.73	4.64	2.07	0.93

triggering receptor expressed on myeloid cells-like 4	Treml4	100757253	2.48	2.14	0.05	0.04	0.02	0.02	159.50	133.59	3.73	2.32	1.03	0.93
transcriptional regulating factor 1	Trerf1	100767482	4.98	4.43	4.48	3.78	3.30	3.41	881.83	789.67	816.05	667.54	585.80	610.34
three prime repair exonuclease 1	Trex1	100761854	2.95	2.66	2.82	2.97	1.91	2.07	92.66	84.18	94.40	99.67	55.89	68.23
three prime repair exonuclease 2	Trex2	100771308	0.35	0.49	0.38	0.42	0.43	0.24	18.99	27.45	22.36	25.50	25.87	17.76
thyrotropin-releasing hormone	Trh	100750524	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
thyrotropin-releasing hormone degrading enzyme	Trhde	100762211	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
thyrotropin-releasing hormone receptor	Trhr	100767758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TP53 regulated inhibitor of apoptosis 1	Triap1	100763139	38.91	38.56	42.80	40.20	40.13	39.11	903.09	897.65	982.49	956.11	996.69	954.30
tribbles pseudokinase 1	Trib1	100772722	16.27	16.51	10.98	11.28	10.12	10.08	754.98	776.86	514.22	516.88	462.64	474.81
tribbles pseudokinase 2	Trib2	100765809	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tribbles pseudokinase 3	Trib3	100760725	201.41	191.17	212.38	188.61	138.20	156.55	11418.15	10856.87	12181.15	10556.60	7761.36	8698.04
TLR4 interactor with leucine-rich repeats	Tril	100764461	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 10	Trim10	100754326	0.02	0.02	0.02	0.06	0.01	0.06	1.52	1.83	1.24	4.64	1.03	5.61
tripartite motif containing 11	Trim11	100770152	6.15	6.13	5.48	5.44	4.65	4.88	388.88	386.14	349.03	338.40	286.69	306.57
tripartite motif containing 13	Trim13	100752234	9.05	9.49	8.85	9.91	9.67	8.68	383.57	393.46	363.93	421.85	404.68	366.39
tripartite motif containing 14	Trim14	100770993	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	5.79	0.00	2.80
tripartite motif containing 16	Trim16	100753576	2.15	2.20	1.22	1.47	1.11	1.38	154.19	153.73	86.95	105.46	74.52	99.07
tripartite motif containing 2	Trim2	100772337	1.58	1.50	1.26	1.49	1.64	1.31	128.36	129.02	114.27	119.37	153.18	112.16
tripartite motif containing 21	Trim21	100754581	2.15	1.75	2.62	2.86	3.11	3.08	113.93	94.25	127.93	140.23	157.32	143.94
tripartite motif containing 23	Trim23	100761294	8.02	8.09	9.72	11.10	12.59	11.42	889.42	905.88	1093.04	1241.20	1396.20	1259.93
tripartite motif containing 24	Trim24	100771974	6.88	6.79	7.11	7.39	7.63	6.96	622.06	626.80	626.01	675.65	686.20	628.10
tripartite motif containing 25	Trim25	100765402	10.86	11.05	5.70	5.61	6.02	5.98	780.05	799.74	419.83	414.89	450.22	452.38
tripartite motif containing 26	Trim26	100772177	25.41	24.84	29.16	25.24	21.72	23.02	2545.98	2514.51	2943.75	2538.03	2192.10	2337.61
tripartite motif containing 27	Trim27	100771886	48.71	47.59	57.40	60.84	58.08	59.96	2597.62	2594.12	3076.65	3229.91	3081.15	3189.09
tripartite motif containing 28	Trim28	100767882	54.17	49.17	54.02	48.68	33.58	39.20	3141.45	2968.37	3280.35	2962.20	2065.83	2353.50
tripartite motif containing 29	Trim29	100759376	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 3	Trim3	100760348	9.20	8.77	10.13	8.83	7.51	7.70	735.23	699.09	802.39	689.56	584.77	602.86
tripartite motif containing 31	Trim31	100771705	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 32	Trim32	100750407	14.49	14.89	16.46	16.77	17.22	17.63	1247.16	1293.86	1428.40	1449.81	1479.00	1531.92
tripartite motif containing 33	Trim33	100761760	15.14	14.23	13.77	16.21	15.61	14.20	2135.06	2002.09	1972.43	2279.60	2185.89	2023.56
tripartite motif containing 35	Trim35	100760599	26.56	26.60	28.22	28.06	29.70	30.06	3521.98	3538.43	3773.46	3724.77	3919.49	3989.17
tripartite motif containing 36	Trim36	100758865	0.07	0.08	0.03	0.09	0.13	0.11	7.60	10.07	3.73	12.75	14.49	12.15
tripartite motif containing 37	Trim37	100754889	22.17	23.27	12.80	13.60	13.95	14.06	2605.22	2716.73	1520.31	1602.79	1617.68	1615.11
tripartite motif containing 38	Trim38	100763011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 40	Trim40	100753736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 41	Trim41	100767959	13.70	13.71	15.39	11.97	10.15	12.14	496.74	532.55	597.44	493.70	409.85	475.75
tripartite motif containing 42	Trim42	100759091	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tripartite motif containing 44	Trim44	100757190	57.88	59.35	66.12	69.14	68.84	68.31	8671.66	8922.49	10017.43	10263.39	10157.36	10186.03
tripartite motif containing 45	Trim45	100770048	17.91	14.93	16.44	14.19	12.55	13.67	1041.33	884.84	973.80	866.87	799.01	853.35
tripartite motif containing 46	Trim46	100757214	1.04	0.78	0.94	0.83	0.64	0.54	101.02	87.84	89.43	82.28	58.99	62.62
tripartite motif containing 47	Trim47	100758005	35.91	35.66	28.38	23.45	17.93	17.68	1835.81	1819.09	1427.16	1150.81	899.40	896.35
tripartite motif containing 50	Trim50	100756631	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	2.32	0.00	0.00

tripartite motif containing 54	Trim54	100773379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 55	Trim55	100774714	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tripartite motif containing 56	Trim56	100769853	2.15	2.11	2.57	1.87	1.44	1.60	233.18	230.59	285.68	235.26	188.37	213.10
tripartite motif containing 58	Trim58	100773936	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tripartite motif containing 59	Trim59	100767039	13.51	14.33	17.62	18.61	18.02	16.88	1169.69	1241.70	1540.19	1607.42	1546.27	1459.95
tripartite motif containing 60	Trim60	100756524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 62	Trim62	100756426	1.04	0.90	1.25	1.01	0.88	0.80	99.50	86.93	121.72	97.35	83.83	76.64
tripartite motif containing 63, E3 ubiquitin protein ligase	Trim63	100772288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 65	Trim65	100758291	0.34	0.24	0.26	0.27	0.22	0.32	19.75	16.47	17.39	17.38	20.70	19.63
tripartite motif containing 66	Trim66	100752350	0.12	0.13	0.07	0.04	0.04	0.05	16.71	14.64	12.42	5.79	5.17	6.54
tripartite motif containing 67	Trim67	100765893	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 68	Trim68	100760957	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 69	Trim69	100752000	0.02	0.00	0.00	0.00	0.00	0.02	0.76	0.00	0.00	0.00	1.03	1.87
tripartite motif containing 7	Trim7	100768248	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.92	0.00	0.00	1.03	0.00
tripartite motif containing 71, E3 ubiquitin protein ligase	Trim71	100767742	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif containing 72, E3 ubiquitin protein ligase	Trim72	100758604	0.03	0.00	0.04	0.00	0.04	0.03	1.52	0.00	4.97	0.00	2.07	3.74
tripartite motif containing 8	Trim8	100757352	28.03	27.54	26.99	20.40	18.03	18.35	2222.41	2164.05	2117.76	1602.79	1417.93	1464.63
tripartite motif family-like 1	Triml1	100756684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tripartite motif family-like 2	Triml2	100756383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trio Rho guanine nucleotide exchange factor	Trio	100772244	9.85	9.35	8.76	8.33	7.85	7.81	3076.13	2911.64	2769.85	2616.84	2503.63	2481.55
TRIO and F-actin binding protein	Triobp	100755893	13.20	13.01	13.50	11.07	8.69	9.69	2698.64	2626.15	2743.77	2249.46	1747.06	1969.35
thyroid hormone receptor interactor 10	Trip10	100764945	99.76	95.56	93.15	86.57	72.69	83.24	5635.78	5516.74	5372.03	4859.35	4053.01	4540.63
thyroid hormone receptor interactor 11	Trip11	100760148	6.72	6.47	5.41	6.74	6.95	6.39	1928.47	1859.35	1592.36	1957.42	2016.15	1881.49
thyroid hormone receptor interactor 12	Trip12	100753260	38.85	38.73	39.36	44.53	45.49	44.15	9487.40	9500.79	9682.07	10804.61	11072.28	10742.16
thyroid hormone receptor interactor 13	Trip13	100761136	32.32	33.25	37.47	39.17	46.48	43.37	1873.78	1961.83	2172.41	2261.05	2701.31	2546.04
thyroid hormone receptor interactor 4	Trip4	100755328	17.27	18.76	17.02	19.36	22.33	22.42	1122.60	1247.19	1150.17	1253.95	1452.09	1441.26
thyroid hormone receptor interactor 6	Trip6	100770112	0.06	0.07	0.03	0.09	0.03	0.00	3.04	5.49	4.97	4.64	2.07	0.00
triple QxxK/R motif containing	Triqk	100770565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tRNA isopentenyltransferase 1	Trit1	100773722	15.47	16.04	18.76	18.83	17.60	20.04	940.31	975.43	1132.78	1100.97	1048.44	1166.47
tRNA methyltransferase 1 homolog (S. cerevisiae)	Trmt1	100765046	22.87	19.68	25.90	22.82	14.48	16.81	1540.35	1352.42	1738.92	1472.99	947.01	1117.86
tRNA methyltransferase 10 homolog A (S. cerevisiae)	Trmt10a	100758993	20.53	21.45	17.46	18.33	20.29	19.48	1569.97	1648.89	1330.28	1390.70	1527.64	1473.04
tRNA methyltransferase 10 homolog B (S. cerevisiae)	Trmt10b	100752147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	0.00
tRNA methyltransferase 10 homolog C (S. cerevisiae)	Trmt10c	100756944	80.07	76.40	75.64	81.69	86.68	76.05	3508.31	3350.85	3323.82	3562.52	3761.14	3338.64
tRNA methyltransferase 11 homolog (S. cerevisiae)	Trmt11	100774416	18.74	19.54	7.97	8.15	9.06	8.79	1012.47	1028.50	422.31	439.23	472.99	463.60
tRNA methyltransferase 11-2 homolog (S. cerevisiae)	Trmt112	100758109	43.02	38.83	32.98	25.65	16.83	16.68	926.64	896.73	753.95	574.82	436.76	406.58
tRNA methyltransferase 12 homolog (S. cerevisiae)	Trmt12	100772520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00

tRNA methyltransferase 1 homolog (S. cerevisiae)-like	Trmt1l	100752418	19.62	20.00	23.43	23.87	26.58	24.73	1439.33	1457.65	1685.51	1674.64	1838.14	1685.21
tRNA methyltransferase 2 homolog A (S. cerevisiae)	Trmt2a	100774876	26.60	25.22	29.84	27.31	20.93	22.86	1911.76	1865.75	2223.34	1988.71	1575.25	1659.04
tRNA methyltransferase 2 homolog B (S. cerevisiae)	Trmt2b	100751250	7.46	7.82	7.72	9.00	8.95	8.87	710.17	718.30	704.26	848.33	851.79	829.99
tRNA methyltransferase 44 homolog (S. cerevisiae)	Trmt44	100766766	2.32	2.03	2.72	2.47	2.30	2.46	499.02	450.20	578.81	533.10	493.69	540.24
tRNA methyltransferase 5	Trmt5	100752861	13.13	12.94	13.16	13.99	14.70	14.77	639.53	624.05	626.01	651.31	693.44	699.13
tRNA methyltransferase 6 homolog (S. cerevisiae)	Trmt6	100772979	39.76	39.00	37.16	39.72	41.14	39.93	3426.28	3404.84	3231.91	3302.92	3452.71	3388.18
tRNA methyltransferase 61 homolog A (S. cerevisiae)	Trmt61a	100757200	38.49	37.06	37.62	28.06	16.11	19.29	1987.71	1896.86	1958.77	1416.20	817.64	986.08
tRNA methyltransferase 61 homolog B (S. cerevisiae)	Trmt61b	100761233	15.98	16.41	21.34	19.18	21.00	21.03	448.13	433.73	577.57	524.99	547.51	491.64
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	Trmu	100759274	8.49	8.70	13.76	13.02	10.58	12.03	482.31	526.14	734.07	740.55	605.47	671.09
transfer RNA alanine (anticodon AGC)	Trnaa-agc	100820663	0.00	0.00	0.00	0.00	0.00	0.00	3.80	3.66	1.24	5.79	3.10	5.61
transfer RNA alanine (anticodon CGC)	Trnaa-cgc	100820666	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
transfer RNA alanine (anticodon UGC)	Trnaa-ugc	100820665	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.24	0.00	2.07	0.00
transfer RNA cysteine (anticodon GCA)	Trnac-gca	100820682	0.00	0.00	0.00	0.00	0.00	0.00	0.76	2.75	1.24	0.00	0.00	2.80
transfer RNA aspartic acid (anticodon GUC)	Trnad-guc	100820678	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	1.24	1.16	1.03	0.93
transfer RNA glutamic acid (anticodon CUC)	Trnae-cuc	100820680	0.00	0.00	0.00	0.00	0.00	0.00	1.52	3.66	3.73	3.48	3.10	1.87
transfer RNA glutamic acid (anticodon UUC)	Trnae-uuc	100820679	0.00	0.00	0.00	0.00	0.00	0.00	6.08	3.66	3.73	2.32	2.07	0.93
transfer RNA phenylalanine (anticodon GAA)	Trnaf-gaa	100820636	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	1.24	3.48	2.07	2.80
transfer RNA glycine (anticodon CCC)	Trnag-ccc	100820695	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	2.07	0.93
transfer RNA glycine (anticodon GCC)	Trnag-gcc	100820693	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
transfer RNA glycine (anticodon UCC)	Trnag-ucc	100820694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transfer RNA histidine(anticodon GUG)	Trnah-gug	100820670	0.00	0.00	0.00	0.00	0.00	0.00	1.52	3.66	3.73	2.32	1.03	4.67
transfer RNA isoleucine (anticodon AAU)	Trnai-aau	100820643	0.00	0.00	0.00	0.00	0.00	0.00	4.56	2.75	2.48	1.16	3.10	0.93
transfer RNA isoleucine (anticodon UAU)	Trnai-uau	100820645	0.00	0.00	0.00	0.00	0.00	0.00	8.35	9.15	12.42	4.64	5.17	1.87
transfer RNA lysine (anticodon CUU)	Trnak-cuu	100820676	0.00	0.00	0.00	0.00	0.00	0.00	7.60	10.07	16.15	11.59	8.28	14.95
transfer RNA lysine (anticodon UUU)	Trnak-uuu	100820675	0.00	0.00	0.00	0.00	0.00	0.00	11.39	10.98	4.97	9.27	12.42	14.95
transfer RNA leucine (anticodon AAG)	Trnal-aag	100820639	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.83	3.73	8.11	1.03	3.74
transfer RNA leucine (anticodon CAA)	Trnal-caa	100820638	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.03	0.00
transfer RNA leucine (anticodon CAG)	Trnal-cag	100820642	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00

transfer RNA leucine (anticodon UAA)	Trnal-uaa	100820637	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
transfer RNA leucine (anticodon UAG)	Trnal-uag	100820641	0.00	0.00	0.00	0.00	0.00	0.00	3.04	9.15	2.48	8.11	5.17	5.61
transfer RNA methionine (anticodon CAU)	Trnam-cau	100820646	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	0.00	0.00	0.00
transfer RNA asparagine (anticodon GUU)	Trnan-guu	100820674	0.00	0.00	0.00	0.00	0.00	0.00	1.52	2.75	3.73	0.00	3.10	6.54
transfer RNA proline (anticodon AGG)	Trnap-agg	100820655	0.00	0.00	0.00	0.00	0.00	0.00	6.84	9.15	4.97	8.11	16.56	9.35
transfer RNA proline (anticodon CGG)	Trnap-cgg	100820658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	2.80
transfer RNA proline (anticodon UGG)	Trnap-ugg	100820657	0.00	0.00	0.00	0.00	0.00	0.00	3.80	4.58	1.24	1.16	2.07	5.61
transfer RNA glutamine (anticodon CUG)	Trnaq-cug	100820672	0.00	0.00	0.00	0.00	0.00	0.00	3.80	6.41	0.00	1.16	0.00	2.80
transfer RNA glutamine (anticodon UUG)	Trnaq-uug	100820671	0.00	0.00	0.00	0.00	0.00	0.00	16.71	18.30	12.42	11.59	9.31	6.54
transfer RNA arginine (anticodon ACG)	Trnar-acg	100820684	0.00	0.00	0.00	0.00	0.00	0.00	2.28	1.83	0.00	4.64	1.03	0.93
transfer RNA arginine (anticodon CCG)	Trnar-ccg	100820685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	3.73	1.16	0.00	1.87
transfer RNA arginine (anticodon CCU)	Trnar-ccu	100820689	0.00	0.00	0.00	0.00	0.00	0.00	3.04	2.75	1.24	2.32	0.00	0.00
transfer RNA arginine (anticodon UCG)	Trnar-ucg	100820686	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	1.24	1.16	2.07	1.87
transfer RNA arginine (anticodon UCU)	Trnar-ucu	100820688	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	3.48	0.00	2.80
transfer RNA serine (anticodon AGA)	Trnas-aga	100820651	0.00	0.00	0.00	0.00	0.00	0.00	3.80	2.75	0.00	4.64	2.07	1.87
transfer RNA serine (anticodon CGA)	Trnas-cga	100820654	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
transfer RNA serine (anticodon GCU)	Trnas-gcu	100820691	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.93
transfer RNA serine (anticodon UGA)	Trnas-uga	100820653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transfer RNA opal suppressor (anticodon UCA)	Trnasto p-uca	100820696	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transfer RNA threonine (anticodon AGU)	Trnat-agu	100820659	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	2.07	0.00
transfer RNA threonine (anticodon CGU)	Trnat-cgu	100820662	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	2.48	2.32	0.00	0.00
transfer RNA threonine (anticodon UGU)	Trnat-ugu	100820661	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	2.32	1.03	4.67
tRNA selenocysteine 1 associated protein 1	Trnau1a p	100769656	41.87	41.92	60.71	58.94	57.92	60.54	1149.18	1120.92	1628.38	1570.34	1544.20	1581.46
transfer RNA valine (anticodon AAC)	Trnav-aac	100820647	0.00	0.00	0.00	0.00	0.00	0.00	3.80	7.32	3.73	8.11	5.17	10.28
transfer RNA valine (anticodon CAC)	Trnav-cac	100820650	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.92	0.00	2.32	0.00	1.87
transfer RNA valine (anticodon UAC)	Trnav-uac	100820649	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
transfer RNA tryptophan (anticodon CCA)	Trnaw-cca	100820683	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00

transfer RNA tyrosine (anticodon GUA)	Trnay-gua	100820668	0.00	0.00	0.00	0.00	0.00	0.00	6.84	5.49	7.45	8.11	7.24	6.54
tRNA nucleotidyl transferase, CCA-adding, 1	Trnt1	100762416	25.53	25.36	28.48	33.85	35.48	33.17	1086.14	1077.91	1202.34	1395.34	1475.89	1384.25
trophinin	Tro	100759986	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	1.03	0.00
trophinin associated protein	Troap	100768889	25.33	23.62	27.87	26.73	22.55	24.61	1873.02	1770.59	2082.98	1982.91	1717.04	1815.13
TROVE domain family, member 2	Trove2	100766132	3.78	3.51	3.63	4.17	5.12	5.00	418.51	407.19	418.58	465.89	570.28	563.61
transient receptor potential cation channel, subfamily A, member 1	Trpa1	100751384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily C, member 1	Trpc1	100689206	1.84	1.68	0.91	0.92	1.09	0.71	164.06	140.00	79.49	76.49	93.15	66.36
transient receptor potential cation channel, subfamily C, member 2	Trpc2	100689218	10.37	11.37	11.89	12.91	14.62	13.43	669.91	726.54	755.19	798.50	927.35	838.40
transient receptor potential cation channel, subfamily C, member 3	Trpc3	100689209	0.04	0.02	0.09	0.04	0.11	0.09	3.80	1.83	9.94	3.48	17.59	7.48
transient receptor potential cation channel, subfamily C, member 4	Trpc4	100770387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
transient receptor potential cation channel, subfamily C, member 4 associated protein	Trpc4ap	100753499	35.88	34.94	39.92	41.67	37.98	39.51	3457.42	3430.46	3964.74	4078.24	3713.53	3802.24
transient receptor potential cation channel, subfamily C, member 5	Trpc5	100754603	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
TRPC5 opposite strand	Trpc5os	103164068	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily C, member 6	Trpc6	100757179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily C, member 7	Trpc7	100755860	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily M, member 1	Trpm1	100761471	0.01	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.93
transient receptor potential cation channel, subfamily M, member 2	Trpm2	100761555	0.02	0.01	0.02	0.03	0.02	0.01	3.04	2.75	2.48	3.48	3.10	0.93
transient receptor potential cation channel, subfamily M, member 4	Trpm4	100754433	2.44	2.34	2.66	2.23	2.01	1.82	332.68	323.92	373.87	315.23	273.24	259.84
transient receptor potential cation channel, subfamily M, member 5	Trpm5	100759067	0.03	0.02	0.04	0.04	0.01	0.03	4.56	2.75	6.21	3.48	2.07	4.67
transient receptor potential cation channel, subfamily M, member 7	Trpm7	100752689	18.87	18.76	18.57	20.57	24.17	21.49	3285.77	3299.61	3220.73	3552.09	4130.63	3754.57
transient receptor potential cation channel, subfamily M, member 8	Trpm8	100754189	0.08	0.04	0.00	0.00	0.03	0.00	7.60	5.49	1.24	1.16	2.07	0.00
trichorhinophalangeal syndrome I	Trps1	100752290	3.12	2.82	4.51	4.81	4.48	4.22	407.11	390.72	598.69	630.45	584.77	558.93
tRNA phosphotransferase 1	Trpt1	100756285	8.87	7.79	11.40	9.93	8.07	9.20	270.40	244.31	319.22	266.55	217.35	237.41
transient receptor potential cation channel, subfamily V, member 1	Trpv1	100771135	0.01	0.02	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily V, member 2	Trpv2	100752789	15.11	14.61	20.57	19.64	17.37	19.92	1236.53	1204.18	1649.49	1558.75	1371.36	1570.25
transient receptor potential cation channel, subfamily V, member 3	Trpv3	100767987	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily V, member 4	Trpv4	100751070	0.01	0.00	0.00	0.00	0.00	0.01	1.52	0.92	0.00	0.00	0.00	0.93
transient receptor potential cation channel, subfamily V, member 5	Trpv5	100757896	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
transient receptor potential cation channel, subfamily V, member 6	Trpv6	100763107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

transformation/transcription domain-associated protein	Trrap	100763987	8.68	8.85	8.19	7.75	7.34	7.78	3304.76	3421.31	3182.23	3027.10	2845.18	3057.30
TruB pseudouridine (psi) synthase family member 1	Trub1	100754275	43.46	44.16	43.17	41.88	35.46	36.71	2076.58	2095.43	2089.19	2010.73	1678.75	1740.35
TruB pseudouridine (psi) synthase family member 2	Trub2	100766452	13.16	12.71	13.79	12.69	12.62	13.00	1601.11	1553.73	1699.17	1557.59	1524.53	1587.07
trypsin-4	Trypsin-4	100752336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TSSK6 activating co-chaperone	Tsacc	100754982	9.45	10.13	7.12	6.08	7.56	7.98	240.01	232.42	162.71	156.45	193.54	194.41
tuberous sclerosis 1	Tsc1	100767621	7.04	6.81	7.58	7.82	7.65	7.78	1641.36	1595.82	1776.18	1834.57	1780.18	1840.36
tuberous sclerosis 2	Tsc2	100755849	10.74	10.09	14.38	14.14	12.02	12.96	1864.67	1767.84	2502.80	2441.84	2094.81	2275.92
TSC22 domain family, member 1	Tsc22d1	103162181	1.45	1.15	1.69	1.70	1.78	2.14	211.15	167.45	245.93	263.07	262.89	321.53
TSC22 domain family, member 2	Tsc22d2	100771973	10.77	10.59	9.49	9.68	9.70	9.27	1240.33	1237.13	1102.97	1106.77	1141.59	1087.96
TSC22 domain family, member 3	Tsc22d3	100760120	29.03	26.98	30.28	26.04	21.66	22.56	536.99	507.84	563.91	498.34	492.65	468.27
TSC22 domain family, member 4	Tsc22d4	100750804	13.25	11.53	13.27	8.95	5.87	5.98	915.24	811.63	921.63	623.50	416.06	434.62
TSEN15 tRNA splicing endonuclease subunit	Tsen15	100755550	67.47	72.64	68.82	76.39	83.05	82.32	1667.95	1812.68	1681.79	1843.84	2025.47	2030.10
TSEN2 tRNA splicing endonuclease subunit	Tsen2	100768441	8.38	7.73	8.10	9.13	9.54	9.00	944.11	955.30	685.63	825.15	832.13	841.20
TSEN34 tRNA splicing endonuclease subunit	Tsen34	100766729	31.40	28.01	29.08	16.08	10.63	10.87	881.83	792.42	814.81	462.41	305.32	329.94
TSEN54 tRNA splicing endonuclease subunit	Tsen54	100755913	11.43	9.87	11.73	11.15	8.45	10.03	737.51	667.97	802.39	757.93	576.49	690.72
Ts translation elongation factor, mitochondrial	Tsfm	100761292	44.52	41.44	45.83	35.80	31.71	35.25	1459.83	1356.99	1479.33	1153.13	1019.46	1134.69
tumor susceptibility 101	Tsg101	100752541	68.36	68.49	79.10	82.34	82.83	85.70	2620.41	2663.66	3152.42	3153.42	3202.25	3249.85
testis specific, 10	Tsga10	100764195	0.65	0.73	0.66	0.98	0.95	0.74	89.63	103.40	84.46	122.85	129.37	99.07
testis specific, 10 interacting protein	Tsga10ip	100769894	0.07	0.05	0.06	0.04	0.07	0.06	9.87	6.41	6.21	6.95	10.35	5.61
testis specific, 13	Tsga13	103159910	0.03	0.04	0.11	0.10	0.05	0.04	1.52	2.75	3.73	4.64	5.17	1.87
thyroid stimulating hormone, beta	Tshb	100751072	0.00	0.09	0.12	0.00	0.21	0.00	0.76	0.92	2.48	0.00	2.07	0.93
thyroid stimulating hormone receptor	Tshr	100775040	0.01	0.00	0.00	0.04	0.00	0.01	0.76	0.00	0.00	2.32	2.07	0.93
teashirt zinc finger homeobox 1	Tshz1	100752361	13.65	12.94	20.09	19.71	16.96	18.56	1795.55	1700.13	2658.07	2638.86	2179.68	2220.78
teashirt zinc finger homeobox 2	Tshz2	100759966	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
testis-specific serine kinase substrate	Tsks	100766843	0.00	0.00	0.03	0.00	0.00	0.00	0.76	0.92	1.24	1.16	0.00	0.00
tsukushi, small leucine rich proteoglycan	Tsku	100773814	14.93	14.53	12.96	12.26	11.76	12.05	1045.13	1032.16	916.66	856.44	811.43	838.40
thymic stromal lymphopoietin	Tslp	100773425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
translin	Tsn	100689410	48.83	48.85	47.42	51.34	55.53	59.73	2788.27	2735.95	2793.45	2897.30	3185.69	3276.02
translin-associated factor X	Tsnax	100772411	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
translin-associated factor X interacting protein 1	Tsnaxip1	100754120	0.11	0.26	0.09	0.12	0.06	0.11	10.63	21.05	14.91	9.27	9.31	12.15
tetraspanin 1	Tspan1	100773482	0.14	0.12	0.04	0.04	0.00	0.00	5.32	7.32	2.48	2.32	1.03	0.00
tetraspanin 10	Tspan10	100755151	0.17	0.14	0.17	0.07	0.06	0.06	12.15	8.24	11.18	5.79	4.14	4.67
tetraspanin 11	Tspan11	100770678	0.00	0.04	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.00	0.00

tetraspanin 12	Tspan12	100766717	2.42	2.72	1.39	1.30	1.79	1.92	90.39	98.82	54.65	49.83	61.06	68.23
tetraspanin 13	Tspan13	100769880	0.07	0.23	0.89	0.59	1.75	1.51	3.80	12.81	47.20	31.29	99.36	83.19
tetraspanin 14	Tspan14	100758665	20.84	20.36	20.51	20.43	18.05	19.97	1483.38	1433.86	1448.27	1435.90	1269.93	1413.22
tetraspanin 15	Tspan15	100770332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetraspanin 16	Tspan16	103162526	0.00	0.00	0.07	0.07	0.00	0.00	3.04	6.41	1.24	5.79	2.07	3.74
tetraspanin 17	Tspan17	100774365	14.33	14.74	13.70	14.41	13.20	15.46	535.48	550.85	494.35	536.58	480.23	532.76
tetraspanin 18	Tspan18	100772908	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetraspanin 2	Tspan2	100752316	4.14	4.08	3.71	4.54	5.21	4.65	328.88	330.33	304.31	362.74	399.50	372.93
tetraspanin 3	Tspan3	100765318	218.85	218.26	211.49	218.61	209.13	222.80	8496.21	8644.32	8402.72	8593.39	8316.11	8753.18
tetraspanin 31	Tspan31	100759828	58.46	62.39	80.08	78.13	80.83	82.91	2453.31	2606.02	3342.46	3214.84	3338.87	3448.00
tetraspanin 32	Tspan32	100761770	0.22	0.12	0.10	0.12	0.00	0.00	9.11	6.41	4.97	5.79	0.00	0.00
tetraspanin 33	Tspan33	100761421	0.02	0.03	0.00	0.00	0.00	0.03	0.76	0.92	0.00	0.00	0.00	0.93
tetraspanin 4	Tspan4	100757053	35.08	32.91	33.43	29.10	22.33	25.69	1162.10	1077.91	1106.70	943.36	726.56	859.90
tetraspanin 5	Tspan5	100755707	10.69	11.00	16.54	16.43	16.17	15.68	587.12	613.07	917.90	928.29	888.02	894.48
tetraspanin 6	Tspan6	100769848	76.30	76.49	82.09	81.45	94.51	92.51	3551.61	3577.78	3785.88	3694.64	4433.88	4283.59
tetraspanin 7	Tspan7	100766835	75.14	75.53	108.30	111.17	112.50	119.89	3541.73	3553.08	5123.61	5182.69	5232.89	5629.52
tetraspanin 8	Tspan8	100760857	0.03	0.08	0.00	0.00	0.23	0.04	0.76	1.83	0.00	0.00	5.17	0.93
tetraspanin 9	Tspan9	100770398	21.24	20.69	16.03	14.43	12.69	13.93	1124.88	1060.52	803.63	698.83	623.06	697.26
thrombospondin-type laminin G domain and EAR repeats	Tspear	100767754	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
translocator protein (18kDa)	Tspo	100768847	99.60	88.38	113.56	59.55	31.28	41.68	2048.48	1810.85	2314.01	1175.14	655.15	848.68
translocator protein 2	Tspo2	100756965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TSPY-like 1	Tspyl1	100751735	90.18	90.39	151.26	156.28	150.30	155.43	5350.95	5360.27	9015.07	9230.80	8820.15	9221.45
TSPY-like 2	Tspyl2	100751807	4.59	4.61	4.75	5.14	6.15	5.13	341.03	343.14	361.45	391.71	460.57	386.95
TSPY-like 4	Tspyl4	100750568	0.02	0.06	0.07	0.07	0.06	0.09	2.28	6.41	7.45	6.95	6.21	11.22
TSPY-like 5	Tspyl5	100753516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TSR1, 20S rRNA accumulation, homolog (S. cerevisiae)	Tsr1	100767392	21.64	20.48	18.08	19.14	19.66	19.96	1933.79	1810.85	1594.84	1683.91	1706.69	1818.87
TSR2, 20S rRNA accumulation, homolog (S. cerevisiae)	Tsr2	100756047	83.31	86.23	102.03	101.89	106.10	105.22	2783.71	2931.77	3414.50	3317.99	3425.80	3405.00
TSR3, 20S rRNA accumulation, homolog (S. cerevisiae)	Tsr3	100751647	27.63	26.20	31.06	29.12	26.63	28.06	879.55	834.51	983.73	900.48	839.37	872.05
tumor suppressing subtransferable candidate 1	Tssc1	100764491	20.26	19.60	17.76	15.88	12.03	12.48	919.80	883.92	816.05	684.92	537.16	561.74
tumor suppressing subtransferable candidate 4	Tssc4	100759348	27.10	24.83	27.66	23.68	16.53	18.89	1171.21	1055.95	1183.71	967.70	673.78	764.56
testis-specific serine kinase 1B	Tssk1b	100752307	0.28	0.28	0.42	0.44	0.44	0.46	40.26	43.92	60.86	57.95	62.10	66.36
testis-specific serine kinase 2	Tssk2	100752011	0.32	0.48	0.41	0.69	0.30	0.27	14.43	21.96	19.87	32.45	14.49	12.15
testis-specific serine kinase 3	Tssk3	100752417	2.17	1.56	1.89	1.90	2.03	2.44	122.29	102.48	103.09	117.05	110.74	132.72
testis-specific serine kinase 4	Tssk4	100758937	3.15	3.80	2.58	3.10	3.30	2.51	141.27	162.88	131.66	140.23	160.42	142.07

thiosulfate sulfurtransferase (rhodanese)	Tst	100689314	29.44	30.06	42.20	36.74	25.88	27.32	852.20	872.03	1224.70	1054.62	744.16	787.93
tissue specific transplantation antigen P35B	Tsta3	100689348	27.39	24.87	30.84	33.58	30.07	33.51	1199.31	1124.58	1336.49	1396.50	1273.03	1376.77
thiosulfate sulfurtransferase (rhodanese)-like domain containing 1	Tstd1	100764675	0.09	0.11	0.38	0.07	0.45	0.41	6.08	4.58	16.15	8.11	10.35	11.22
thiosulfate sulfurtransferase (rhodanese)-like domain containing 2	Tstd2	100770141	18.64	17.07	19.67	20.66	20.87	21.91	1942.90	1816.34	2074.29	2139.37	2177.61	2278.72
thiosulfate sulfurtransferase (rhodanese)-like domain containing 3	Tstd3	100764063	37.66	33.87	31.02	27.93	33.08	33.91	724.60	641.44	582.54	530.79	596.15	635.58
tau tubulin kinase 1	Ttbk1	100756759	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.92	0.00	0.00	1.03	0.00
tau tubulin kinase 2	Ttbk2	100769455	1.58	1.33	1.75	2.00	2.65	2.36	307.61	260.78	350.27	395.19	518.53	461.73
tetratricopeptide repeat domain 1	Ttc1	100766507	27.96	27.54	31.26	32.36	32.36	35.06	1153.74	1150.20	1294.25	1321.17	1319.61	1424.44
tetratricopeptide repeat domain 12	Ttc12	100751344	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat domain 13	Ttc13	100766190	20.39	19.69	19.58	20.51	21.39	21.61	1974.04	1938.04	1917.78	1966.69	2077.22	2093.66
tetratricopeptide repeat domain 14	Ttc14	100750788	64.14	65.42	67.58	79.77	70.33	64.53	4889.91	4980.53	5159.63	6000.89	5297.06	4907.02
tetratricopeptide repeat domain 16	Ttc16	100760213	0.45	0.30	0.42	0.46	0.39	0.53	47.85	46.67	43.47	53.31	47.61	57.01
tetratricopeptide repeat domain 17	Ttc17	100750794	16.04	16.49	18.25	19.59	19.52	19.42	2221.65	2262.88	2528.89	2704.92	2684.75	2688.11
tetratricopeptide repeat domain 18	Ttc18	100762746	0.51	0.55	0.38	0.39	0.52	0.67	91.90	85.10	73.28	67.22	96.25	111.23
tetratricopeptide repeat domain 19	Ttc19	100760541	2.35	2.28	2.38	2.55	2.83	3.06	251.41	232.42	253.39	278.14	310.50	319.66
tetratricopeptide repeat domain 21A	Ttc21a	100756261	0.41	0.45	0.35	0.41	0.45	0.51	76.71	78.69	69.56	66.06	83.83	84.12
tetratricopeptide repeat domain 21B	Ttc21b	100752926	9.82	10.05	8.60	9.86	10.47	10.43	1336.79	1382.62	1155.14	1335.08	1435.53	1414.16
tetratricopeptide repeat domain 22	Ttc22	100770201	0.00	0.00	0.03	0.03	0.00	0.00	0.00	2.75	6.21	2.32	0.00	1.87
tetratricopeptide repeat domain 23	Ttc23	100768827	9.10	9.15	11.09	11.72	12.35	11.78	614.47	626.80	757.67	788.07	845.58	802.88
tetratricopeptide repeat domain 23-like	Ttc23l	100759334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat domain 24	Ttc24	100762621	0.05	0.03	0.00	0.00	0.00	0.00	1.52	2.75	0.00	1.16	1.03	0.00
tetratricopeptide repeat domain 25	Ttc25	100773898	0.63	0.73	0.32	0.50	0.34	0.58	49.37	53.07	29.81	38.24	30.01	43.93
tetratricopeptide repeat domain 26	Ttc26	100769199	4.31	4.89	6.39	5.76	7.42	7.35	506.61	577.39	770.09	688.40	849.72	858.96
tetratricopeptide repeat domain 27	Ttc27	100762808	55.41	53.64	59.22	60.11	58.33	59.79	4450.90	4427.85	4769.61	4655.38	4507.37	4624.75
tetratricopeptide repeat domain 28	Ttc28	100772639	6.11	6.11	6.33	5.50	4.46	5.22	1857.07	1842.88	1945.11	1696.66	1372.39	1599.22
tetratricopeptide repeat domain 29	Ttc29	100772969	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat domain 3	Ttc3	100750887	24.64	23.13	28.64	32.03	32.22	30.53	7358.42	7143.67	8705.79	9714.07	9739.22	9080.32
tetratricopeptide repeat domain 32	Ttc32	100751849	8.25	9.94	6.76	7.87	8.64	8.05	155.71	188.50	126.69	146.02	160.42	150.48
tetratricopeptide repeat domain 33	Ttc33	100767854	28.42	28.77	30.22	31.49	36.76	35.35	1353.50	1367.06	1459.45	1477.62	1714.97	1673.06
tetratricopeptide repeat domain 34	Ttc34	100755808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat domain 36	Ttc36	100758106	2.27	2.10	2.14	2.42	2.56	2.70	62.28	59.48	60.86	66.06	68.31	71.97
tetratricopeptide repeat domain 37	Ttc37	100759126	16.11	16.05	16.47	19.08	19.64	19.12	3563.76	3554.91	3640.56	4162.84	4328.31	4220.97
tetratricopeptide repeat domain 38	Ttc38	100758407	2.55	3.25	2.53	2.20	2.65	2.51	144.31	194.90	154.02	126.32	146.97	147.68
tetratricopeptide repeat domain 39A	Ttc39a	100750827	0.01	0.00	0.02	0.00	0.02	0.00	1.52	2.75	1.24	2.32	1.03	0.93
tetratricopeptide repeat domain 39B	Ttc39b	100763584	8.91	8.72	5.17	5.28	5.86	5.52	2334.06	2283.01	1346.42	1386.07	1498.66	1452.48
tetratricopeptide repeat domain 39C	Ttc39c	100754711	7.27	7.78	5.38	7.65	7.54	7.49	419.27	446.54	319.22	432.28	446.08	423.41
tetratricopeptide repeat domain 4	Ttc4	100751794	40.37	40.07	41.87	42.75	38.58	43.25	2442.68	2455.03	2583.54	2655.09	2347.35	2603.99
tetratricopeptide repeat domain 40	Ttc40	100759176	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat domain 5	Ttc5	100753061	31.95	31.07	29.40	30.17	28.78	29.74	1731.75	1693.73	1617.20	1653.78	1606.30	1638.48
tetratricopeptide repeat domain 6	Ttc6	100755313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
tetratricopeptide repeat domain 7A	Ttc7a	100764699	10.04	9.54	9.33	9.05	7.62	8.24	1297.29	1257.26	1216.00	1173.99	990.48	1066.46
tetratricopeptide repeat domain 7B	Ttc7b	100772058	10.69	10.65	12.49	12.35	10.70	10.89	1042.85	1058.69	1233.39	1186.73	1027.74	1055.24

tetratricopeptide repeat domain 8	Ttc8	100772346	5.87	5.76	4.92	5.62	6.78	6.55	362.30	350.46	309.28	346.52	444.01	414.06
tetratricopeptide repeat domain 9	Ttc9	100763223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tetratricopeptide repeat domain 9C	Ttc9c	100754859	8.49	10.68	8.43	8.63	9.34	9.70	261.28	296.47	269.53	279.30	335.34	329.94
transcription termination factor, RNA polymerase I	Ttf1	100764309	23.02	22.86	22.36	23.44	24.01	23.67	1437.81	1432.03	1429.64	1496.17	1557.65	1484.26
transcription termination factor, RNA polymerase II	Ttf2	100769758	15.05	15.37	12.94	14.66	15.45	15.77	2065.95	2111.90	1798.54	1987.55	2068.94	2137.59
TELO2 interacting protein 1	Tti1	100758713	18.51	18.24	16.78	17.37	18.37	19.57	2110.00	2094.51	1942.62	1992.18	2090.67	2238.53
TELO2 interacting protein 2	Tti2	100760553	19.13	18.80	18.60	18.66	19.81	20.08	1389.96	1415.56	1456.97	1420.84	1494.52	1509.49
TTK protein kinase	Ttk	100774563	11.17	10.41	10.24	12.82	14.43	13.09	1023.10	964.45	955.16	1165.87	1337.20	1184.23
tubulin tyrosine ligase	Ttl	100755055	18.66	19.19	22.22	24.13	23.91	24.78	2253.55	2330.59	2727.62	2906.57	2859.67	2991.88
tubulin tyrosine ligase-like family, member 1	Ttll1	100767980	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin tyrosine ligase-like family, member 10	Ttll10	100773166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin tyrosine ligase-like family, member 11	Ttll11	100758917	0.80	0.66	0.85	0.72	1.21	2.01	56.21	57.65	48.44	49.83	48.64	71.97
tubulin tyrosine ligase-like family, member 12	Ttll12	100769125	41.75	40.01	44.61	42.34	34.18	36.76	3935.93	3842.23	4275.26	4011.02	3222.95	3471.36
tubulin tyrosine ligase-like family, member 2	Ttll2	100751736	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin tyrosine ligase-like family, member 3	Ttll3	100774644	1.92	1.90	1.58	1.25	1.10	1.35	281.03	283.66	263.32	244.53	189.40	251.43
tubulin tyrosine ligase-like family, member 4	Ttll4	100770741	7.00	7.15	7.34	8.24	7.73	8.07	1831.25	1863.92	1958.77	2191.52	2022.36	2123.57
tubulin tyrosine ligase-like family, member 5	Ttll5	100756538	5.07	5.57	7.50	7.82	8.08	8.08	747.39	798.82	1050.81	1098.66	1148.83	1162.73
tubulin tyrosine ligase-like family, member 7	Ttll7	100767380	0.78	0.87	0.63	0.68	1.02	0.76	170.14	190.33	140.36	148.34	223.56	164.50
tubulin tyrosine ligase-like family, member 8	Ttll8	100754335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tubulin tyrosine ligase-like family, member 9	Ttll9	100755087	0.05	0.08	0.05	0.10	0.04	0.00	12.15	9.15	2.48	11.59	6.21	3.74
titin	Ttn	100767264	0.00	0.00	0.00	0.00	0.00	0.00	9.87	7.32	8.69	3.48	0.00	1.87
tocopherol (alpha) transfer protein	Ttpa	100751868	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
tocopherol (alpha) transfer protein-like	Ttpal	100769790	13.93	14.59	15.83	16.16	18.59	19.14	1940.62	2031.37	2228.30	2239.03	2557.45	2671.29
transthyretin	Ttr	100763707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tweety family member 1	Ttyh1	100774128	0.00	0.03	0.00	0.00	0.00	0.00	1.52	1.83	0.00	2.32	4.14	4.67
tweety family member 2	Ttyh2	100751505	5.32	4.99	5.38	5.04	4.72	5.17	399.52	363.27	393.74	361.58	327.06	357.04
tweety family member 3	Ttyh3	100762098	8.83	8.99	10.04	6.87	4.52	5.32	1105.13	1115.43	1283.08	897.00	618.92	729.98
tubby bipartite transcription factor	Tub	100768745	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
tubulin, alpha 1B	Tuba1b	100682528	569.57	548.88	554.48	527.18	414.86	464.24	15819.68	15235.31	15487.58	14858.51	11511.12	12897.51
tubulin, alpha 1C	Tuba1c	100682526	513.93	527.61	539.47	533.80	472.52	499.08	978.29	984.58	935.29	987.40	989.45	973.93
tubulin, alpha 4a	Tuba4a	100767686	1.56	1.54	0.57	0.54	0.46	0.47	85.83	90.59	40.99	46.36	38.29	39.26
tubulin, alpha 8	Tuba8	100753526	0.20	0.17	0.13	0.21	0.11	0.02	8.35	7.32	4.97	8.11	4.14	1.87
tubulin, alpha-like 3	Tubal3	100755907	0.07	0.06	0.00	0.00	0.00	0.02	3.04	2.75	0.00	0.00	0.00	0.93
tubulin, beta class I	Tubb	100689088	595.18	579.76	639.15	480.52	367.03	394.00	29713.17	29129.18	33168.69	25724.54	21527.72	22573.21

tubulin, beta 1 class VI	Tubb1	100772797	0.03	0.04	0.00	0.05	0.07	0.00	2.28	1.83	0.00	2.32	4.14	0.00
tubulin, beta 3 class III	Tubb3	100760055	0.05	0.04	0.13	0.07	0.08	0.00	2.28	2.75	8.69	8.11	4.14	0.00
tubulin, beta 4A class IVa	Tubb4a	100763390	0.67	0.82	0.83	0.60	0.55	0.48	22.03	26.54	28.57	18.54	17.59	15.89
tubulin, beta 4B class IVb	Tubb4b	100689089	133.44	130.89	128.11	123.53	94.98	98.41	4725.09	4643.80	4519.95	4243.96	3177.41	3376.03
tubulin, beta 6 class V	Tubb6	100689363	46.84	47.48	38.87	25.96	17.49	17.47	1764.41	1757.78	1501.68	1138.06	907.68	889.81
tubulin, delta 1	Tubd1	100757222	21.24	19.69	9.83	11.02	11.70	11.84	1073.99	1027.58	510.50	563.24	590.98	612.21
tubulin, epsilon 1	Tube1	100756741	8.75	9.52	10.76	12.05	14.93	14.31	777.01	829.02	943.99	1036.07	1278.21	1244.98
tubulin, gamma 1	Tubg1	100759432	57.24	57.89	43.35	38.14	30.68	33.06	2328.75	2354.38	1732.71	1552.95	1307.19	1413.22
tubulin, gamma complex associated protein 2	Tubgcp2	100771527	53.66	52.70	60.47	63.36	62.15	63.82	4490.40	4467.19	5152.18	5348.42	5253.59	5368.74
tubulin, gamma complex associated protein 3	Tubgcp3	100760005	20.12	20.87	19.59	21.18	19.89	21.24	2030.25	2117.39	2005.97	2130.09	2008.91	2153.48
tubulin, gamma complex associated protein 4	Tubgcp4	100768027	9.80	9.85	8.57	8.94	10.56	10.29	842.33	872.94	752.70	762.57	935.63	898.22
tubulin, gamma complex associated protein 5	Tubgcp5	100760018	6.60	6.82	8.68	8.72	9.65	8.92	682.07	704.58	891.82	917.86	996.69	924.39
tubulin, gamma complex associated protein 6	Tubgcp6	100753745	5.25	5.15	7.35	7.40	6.18	6.51	931.95	922.35	1309.16	1301.47	1048.44	1135.62
Tu translation elongation factor, mitochondrial	Tufm	100766830	84.80	81.55	80.81	70.36	64.02	67.20	3951.12	3867.85	3859.16	3326.10	3026.30	3174.14
tuftelin 1	Tuft1	100771950	13.63	14.43	16.43	16.35	20.01	21.86	1042.09	1098.04	1258.23	1241.20	1511.08	1650.63
tubby like protein 1	Tulp1	100764982	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
tubby like protein 2	Tulp2	100757913	0.00	0.04	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.00
tubby like protein 3	Tulp3	100762976	21.91	22.35	26.02	26.46	24.01	24.92	2060.63	2114.64	2470.51	2452.27	2226.26	2350.69
tubby like protein 4	Tulp4	100763124	10.61	9.85	10.67	11.39	9.42	10.57	1596.55	1554.64	1644.52	1758.08	1424.14	1615.11
tumor suppressor candidate 2	Tusc2	100770046	15.97	15.99	23.01	20.54	19.37	20.92	631.18	622.22	898.03	796.18	747.26	826.25
tumor suppressor candidate 5	Tusc5	100757040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.93
terminal uridylyl transferase 1, U6 snRNA-specific	Tut1	100756173	17.22	16.46	17.32	16.47	11.60	13.43	1357.30	1294.77	1377.47	1307.26	917.00	1064.59
trans-golgi network vesicle protein 23 homolog A (S. cerevisiae)	Tvp23a	100750344	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Golgi apparatus membrane protein TVP23 homolog B	Tvp23b	100762284	11.80	11.62	11.18	11.91	12.58	13.99	587.88	546.28	540.31	563.24	595.12	666.42
twinfilin actin-binding protein 1	Twf1	100752176	42.14	44.63	45.57	49.72	56.47	53.13	3625.28	3887.06	4004.49	4255.55	4816.83	4525.67
twinfilin actin-binding protein 2	Twf2	103160136	16.05	16.67	15.91	12.14	8.67	8.32	665.36	698.17	665.76	506.45	380.87	379.48
twist family bHLH transcription factor 1	Twist1	103163738	33.91	38.44	49.86	43.04	48.64	44.79	671.43	758.56	980.01	839.06	944.94	877.65
TWIST neighbor	Twistnb	100771937	35.95	37.09	38.83	39.84	41.65	40.69	2722.19	2837.52	2966.10	3022.46	3156.71	3097.50
twisted gastrulation BMP signaling modulator 1	Twsg1	100755780	73.49	81.55	84.59	84.92	83.44	80.69	1891.25	2002.09	2225.82	2270.32	2197.28	2157.22
TXK tyrosine kinase	Txk	100774072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
taxilin alpha	Txlna	100754216	61.20	57.67	62.49	58.49	55.92	61.94	6168.22	5952.29	6484.94	6020.59	5809.38	6399.68
taxilin beta	Txlnb	100769447	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.00
taxilin gamma	Txlng	100752164	9.90	9.99	10.11	11.19	11.41	10.82	1245.64	1256.34	1288.04	1405.77	1441.74	1340.32
thioredoxin domain containing 11	Txndc11	100752982	11.31	10.96	13.58	13.62	11.76	11.66	913.73	904.05	1130.30	1116.04	969.78	951.49
thioredoxin domain containing 12 (endoplasmic reticulum)	Txndc12	100753389	50.61	51.30	46.20	50.07	52.70	52.50	2349.25	2397.39	2220.85	2374.63	2438.43	2411.45

thioredoxin domain containing 15	Txndc15	100762993	31.83	32.26	33.26	34.52	35.44	36.31	1219.82	1249.94	1309.16	1315.37	1367.22	1378.64
thioredoxin domain containing 16	Txndc16	100773836	8.67	9.20	8.94	10.06	12.06	12.15	745.87	780.52	780.03	832.10	1024.64	1014.12
thioredoxin domain containing 17	Txndc17	100755189	44.55	46.57	44.55	43.90	48.83	43.79	784.60	842.75	786.24	775.32	854.90	758.95
thioredoxin domain containing 2 (spermatozoa)	Txndc2	100758101	0.00	0.00	0.00	0.03	0.05	0.00	0.00	0.92	1.24	1.16	4.14	0.93
thioredoxin domain containing 5 (endoplasmic reticulum)	Txndc5	100766506	186.84	181.05	205.39	205.85	196.11	213.00	11848.05	11760.93	13417.02	13557.04	12710.67	13772.36
thioredoxin domain containing 9	Txndc9	100756342	48.12	47.27	46.78	46.64	53.34	48.59	1919.36	1951.77	1911.57	1902.95	2207.63	2018.89
thioredoxin interacting protein	Txnip	100756038	72.03	72.30	81.33	84.93	83.46	89.61	4222.28	4291.51	4911.21	5091.14	5041.42	5361.27
thioredoxin-like 1	Txnl1	100765222	41.76	39.27	45.66	48.48	47.68	47.02	1396.79	1344.18	1515.35	1583.08	1623.89	1543.14
thioredoxin-like 4A	Txnl4a	100760868	169.21	158.00	166.34	166.63	135.50	152.89	981.32	953.46	859.52	779.95	752.44	783.25
thioredoxin-like 4B	Txnl4b	100757210	18.28	16.30	18.10	18.91	20.35	20.47	963.86	870.20	946.47	1002.47	1062.93	1069.26
thioredoxin reductase 1	Txnrd1	100771594	287.08	297.04	328.45	358.62	387.18	373.58	27785.46	28924.21	32114.16	34654.02	37294.70	36079.18
thioredoxin reductase 2	Txnrd2	100770343	16.53	16.44	16.52	14.75	14.80	18.57	908.41	934.25	914.18	822.83	806.25	1012.25
thioredoxin reductase 3	Txnrd3	100770105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tyrosine kinase 2	Tyk2	100760469	5.80	5.91	6.34	6.49	5.64	6.00	824.86	833.60	915.42	910.91	793.83	870.18
thymidine phosphorylase	Tymp	100757152	0.02	0.08	0.00	0.05	0.00	0.00	5.32	1.83	2.48	2.32	2.07	0.93
thymidylate synthetase	Tyms	100754276	62.49	68.65	71.00	77.79	89.26	79.23	2255.07	2486.15	2607.14	2779.09	3193.97	2859.15
TYRO3 protein tyrosine kinase	Tyro3	100772328	9.82	9.11	10.19	9.97	8.45	9.36	1111.97	1048.63	1140.24	1103.29	963.57	1059.92
TYRO protein tyrosine kinase binding protein	Tyrobp	100772456	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	3.73	0.00	1.03	1.87
tyrosinase-related protein 1	Tyrp1	100774614	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	0.00	0.93
trypsin domain containing 1	Tysnd1	100769469	2.27	1.78	0.64	0.61	0.43	0.38	95.70	78.69	26.08	27.81	22.77	18.69
tRNA-yW synthesizing protein 1 homolog (S. cerevisiae)	Tyw1	100751910	10.49	10.03	11.96	14.11	15.13	15.49	523.32	509.67	627.25	689.56	761.75	769.23
tRNA-yW synthesizing protein 3 homolog (S. cerevisiae)	Tyw3	100769973	14.11	15.23	16.11	15.21	14.34	15.27	312.93	326.67	340.33	333.77	301.18	321.53
tRNA-yW synthesizing protein 5	Tyw5	100773600	9.41	9.40	10.48	8.65	10.25	9.50	498.26	532.55	591.23	603.80	599.26	558.93
U2 small nuclear RNA auxiliary factor 1	U2af1	100766015	275.20	265.32	238.72	234.30	214.36	239.61	6450.01	6358.57	5704.90	5550.07	5126.29	5565.96
U2 small nuclear RNA auxiliary factor 2	U2af2	100769215	94.04	97.42	85.41	78.12	60.51	70.55	2602.94	2699.35	2320.22	2031.59	1520.39	1790.83
U2 snRNP-associated SURP domain containing	U2surp	100767131	11.12	11.71	7.53	8.91	9.41	8.42	1192.48	1265.49	816.05	936.41	985.31	901.96
uveal autoantigen with coiled-coil domains and ankyrin repeats	Uaca	100753602	13.18	13.49	14.20	17.13	19.12	17.80	1749.22	1796.21	1922.75	2285.39	2591.61	2424.53
UDP-N-acteylglucosamine pyrophosphorylase 1	Uap1	100768154	28.57	27.68	33.85	34.34	38.09	39.05	1829.73	1790.72	2229.55	2247.15	2423.94	2460.05
UDP-N-acteylglucosamine pyrophosphorylase 1-like 1	Uap1l1	100771350	36.48	36.57	55.14	46.57	36.94	44.22	1838.84	1840.13	2784.76	2313.20	1851.59	2194.60
ubiquitin-like modifier activating enzyme 1	Uba1	100769040	153.59	149.90	146.73	144.22	140.45	149.77	16605.05	16320.54	15984.42	15444.93	15110.80	16071.65
ubiquitin-like modifier activating enzyme 2	Uba2	100764381	48.99	46.83	58.10	56.72	48.05	49.32	3339.69	3231.90	4006.97	3918.31	3292.29	3385.37
ubiquitin-like modifier activating enzyme 3	Uba3	100756784	34.05	32.55	34.47	40.51	46.83	42.77	2219.37	2163.14	2276.75	2584.39	3020.09	2779.71
ubiquitin-like modifier activating enzyme 5	Uba5	100762493	21.36	20.32	21.25	24.28	25.70	25.26	1389.20	1389.02	1417.22	1578.45	1695.31	1639.41

ubiquitin-like modifier activating enzyme 6	Uba6	100761596	22.26	24.05	19.37	24.33	25.23	23.17	1621.62	1755.03	1440.82	1744.17	1870.22	1730.07
ubiquitin-like modifier activating enzyme 7	Uba7	100770619	0.34	0.43	0.51	0.67	0.40	0.50	44.05	53.99	57.14	67.22	46.57	56.08
UBA domain containing 1	Ubac1	100760641	16.46	14.74	19.54	19.30	18.67	18.77	726.12	650.59	870.70	861.08	809.36	813.16
UBA domain containing 2	Ubac2	100766407	16.42	16.89	27.41	25.84	23.70	28.34	559.78	501.44	798.66	740.55	647.90	845.88
UBA-like domain containing 1	Ubald1	100773153	20.51	19.34	23.26	17.43	10.24	12.13	1140.83	1064.18	1281.83	939.88	566.14	668.29
UBA-like domain containing 2	Ubald2	100761186	55.48	50.98	37.43	18.95	11.42	10.93	717.01	669.80	450.88	229.47	113.85	116.83
ubiquitin associated protein 1	Ubap1	100769433	19.78	19.21	19.89	20.66	22.33	21.99	1374.77	1352.42	1413.49	1445.17	1557.65	1532.86
ubiquitin associated protein 1-like	Ubap1l	100750502	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin associated protein 2	Ubap2	100769902	30.74	30.52	28.89	28.68	25.26	25.77	3985.30	3940.13	3762.28	3680.73	3276.77	3339.57
ubiquitin associated protein 2-like	Ubap2l	100761650	91.79	93.68	92.13	89.24	82.57	86.56	9788.94	10122.10	10067.11	9607.45	8944.35	9279.40
ubiquitin associated and SH3 domain containing A	Ubash3a	100760492	0.02	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
ubiquitin B	Ubb	100689268	1440.09	1324.94	1539.17	1452.53	987.68	1179.71	10771.79	9783.54	11339.01	10657.43	7265.60	8912.08
ubiquitin C	Ubc	100689267	516.72	480.52	607.09	511.61	308.90	371.49	15952.60	14901.32	18996.48	15723.07	9454.60	11545.04
ubiquitin D	Ubd	100769593	0.07	0.12	0.34	0.16	0.38	0.39	2.28	3.66	8.69	4.64	9.31	10.28
ubiquitin-conjugating enzyme E2A	Ube2a	100768509	12.29	13.25	14.20	13.41	16.83	16.75	528.64	576.47	598.69	579.46	721.39	690.72
ubiquitin-conjugating enzyme E2B	Ube2b	100758252	42.10	42.78	43.59	47.99	54.54	52.34	1361.85	1373.47	1417.22	1530.93	1723.25	1662.78
ubiquitin-conjugating enzyme E2C	Ube2c	100760884	231.98	231.79	195.24	205.05	232.73	224.30	4600.53	4559.61	3797.06	3882.38	4435.95	4290.13
ubiquitin-conjugating enzyme E2D 1	Ube2d1	100773215	36.58	38.71	39.61	41.72	46.93	45.41	1244.88	1305.75	1322.82	1391.86	1540.06	1510.43
ubiquitin-conjugating enzyme E2D 2	Ube2d2	100757523	22.90	23.52	25.47	26.21	27.12	25.73	1111.21	1140.13	1239.60	1267.86	1325.82	1249.65
ubiquitin-conjugating enzyme E2D 4 (putative)	Ube2d4	100768634	43.30	43.52	41.64	40.10	36.07	38.93	1705.93	1672.68	1639.55	1601.63	1369.29	1468.37
ubiquitin-conjugating enzyme E2E 1	Ube2e1	100767156	81.29	88.15	92.35	96.35	95.82	90.97	2810.30	2987.58	3147.45	3213.68	3177.41	3097.50
ubiquitin-conjugating enzyme E2E 2	Ube2e2	100766861	57.16	61.61	75.85	70.10	66.97	72.95	1877.58	2001.18	2480.45	2140.53	2034.78	2248.82
ubiquitin-conjugating enzyme E2E 3	Ube2e3	100762619	46.92	46.74	38.22	41.12	42.00	42.02	1342.87	1380.79	1104.22	1154.28	1206.79	1167.40
ubiquitin-conjugating enzyme E2F (putative)	Ube2f	100773164	28.49	28.82	29.14	31.29	32.66	32.00	1505.41	1548.24	1591.11	1647.98	1728.43	1682.41
ubiquitin-conjugating enzyme E2G 1	Ube2g1	100757519	10.23	9.41	9.32	9.68	10.94	10.94	1086.14	990.98	984.97	1011.74	1130.21	1135.62
ubiquitin-conjugating enzyme E2G 2	Ube2g2	100765997	39.28	36.56	42.90	38.61	28.00	31.94	2122.15	1989.28	2330.15	2094.17	1528.67	1775.87
ubiquitin-conjugating enzyme E2H	Ube2h	100763741	19.72	20.09	22.96	25.13	26.18	26.61	2552.81	2631.64	3010.82	3298.29	3383.37	3438.65
ubiquitin-conjugating enzyme E2I	Ube2i	100751062	71.60	73.38	74.00	70.88	73.34	72.51	5606.16	5782.10	5738.44	5430.70	5599.28	5597.74
ubiquitin-conjugating enzyme E2, J1	Ube2j1	100772025	14.81	15.08	14.27	14.73	15.01	14.90	1466.67	1517.13	1459.45	1474.15	1493.49	1467.43
ubiquitin-conjugating enzyme E2, J2	Ube2j2	100768172	89.14	83.38	81.87	76.57	65.93	72.14	2600.66	2504.45	2449.40	2196.15	1951.98	2093.66
ubiquitin-conjugating enzyme E2K	Ube2k	100764110	56.05	56.09	53.55	57.39	59.61	57.18	3728.58	3833.99	3543.67	3750.26	3952.61	3761.11
ubiquitin-conjugating enzyme E2L 3	Ube2l3	100750565	160.01	163.01	149.88	153.26	156.39	172.46	2533.82	2579.48	2418.34	2404.76	2488.11	2771.30
ubiquitin-conjugating enzyme E2L 6	Ube2l6	100756751	1.43	1.28	1.05	1.20	0.95	0.86	25.82	20.13	17.39	17.38	11.38	14.95
ubiquitin-conjugating enzyme E2M	Ube2m	100767306	109.79	103.36	132.80	122.70	110.50	113.52	2453.31	2401.96	2971.07	2714.19	2477.76	2528.28
ubiquitin-conjugating enzyme E2N	Ube2n	100752830	70.71	71.45	66.93	70.75	71.33	70.89	2492.81	2520.92	2383.56	2483.57	2495.35	2517.07
ubiquitin-conjugating enzyme E2O	Ube2o	100762350	19.11	19.36	23.12	18.42	12.59	15.62	2695.60	2767.98	3337.49	2652.77	1831.93	2215.17
ubiquitin-conjugating enzyme E2Q family member 1	Ube2q1	100750390	33.87	35.40	40.02	39.64	43.22	43.26	1652.76	1685.49	1890.46	1835.73	2006.84	2014.21

ubiquitin-conjugating enzyme E2Q family member 2	Ube2q2	100763851	46.34	50.24	45.30	47.18	48.79	46.56	3860.74	4231.12	3790.85	3893.97	4050.94	3842.43
ubiquitin-conjugating enzyme E2Q family-like 1	Ube2ql1	100759706	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2R 2	Ube2r2	100771522	24.63	23.72	25.77	27.55	28.31	27.10	780.05	775.03	830.96	893.53	911.82	887.94
ubiquitin-conjugating enzyme E2S	Ube2s	100774405	149.07	137.92	136.63	92.68	67.94	72.00	2985.75	2838.43	2773.58	2009.57	1369.29	1482.39
ubiquitin-conjugating enzyme E2T (putative)	Ube2t	100754089	37.13	38.28	34.64	35.24	36.38	35.52	1030.69	1055.95	971.31	956.11	971.85	964.58
ubiquitin-conjugating enzyme E2U (putative)	Ube2u	100756709	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin-conjugating enzyme E2 variant 1	Ube2v1	103159460	86.82	84.55	79.35	69.53	65.39	69.84	5497.54	5416.08	5055.29	4406.21	4131.67	4428.47
ubiquitin-conjugating enzyme E2 variant 2	Ube2v2	100764742	102.98	106.66	92.35	104.60	107.35	96.11	1232.73	1299.35	1132.78	1198.32	1246.12	1125.34
ubiquitin-conjugating enzyme E2W (putative)	Ube2w	100762319	11.95	12.94	7.58	8.46	9.00	10.11	452.69	494.12	326.67	336.09	340.51	367.33
ubiquitin-conjugating enzyme E2Z	Ube2z	100753214	57.23	58.47	43.04	43.99	46.69	48.96	4188.10	4244.84	3156.14	3222.96	3376.13	3581.65
ubiquitin protein ligase E3A	Ube3a	100772382	4.27	4.02	4.36	4.94	5.72	5.01	1057.28	1001.05	1086.83	1240.04	1406.55	1244.98
ubiquitin protein ligase E3B	Ube3b	100752226	27.51	26.38	29.69	29.53	28.00	28.67	4061.26	3960.27	4476.48	4401.58	4175.13	4230.32
ubiquitin protein ligase E3C	Ube3c	100768481	27.23	26.95	20.71	21.41	20.74	21.90	3821.24	3799.22	2942.50	2998.13	2937.29	3103.10
ubiquitin protein ligase E3D	Ube3d	100763546	2.33	2.68	1.66	1.58	1.53	1.70	96.46	107.97	62.10	60.26	62.10	64.49
ubiquitination factor E4A	Ube4a	100757349	12.33	13.03	15.38	16.18	19.05	18.50	2279.38	2382.75	2803.39	2971.47	3469.27	3408.74
ubiquitination factor E4B	Ube4b	100771525	46.39	44.57	50.80	50.33	45.77	46.92	6129.48	5877.26	6739.56	6589.62	6029.83	6210.88
ubiquitin family domain containing 1	Ubfd1	103160474	22.60	21.52	24.85	24.64	27.31	27.10	1063.35	1052.29	1167.56	1146.17	1275.10	1243.11
UbiA prenyltransferase domain containing 1	Ubiad1	100756009	30.90	30.22	35.34	30.20	24.18	27.31	1861.63	1839.22	2148.81	1893.68	1529.71	1746.90
ubiquitin-like 3	Ubl3	100755332	34.44	35.31	27.13	27.30	29.18	29.07	2188.23	2241.83	1736.44	1729.11	1841.24	1845.97
ubiquitin-like 4A	Ubl4a	100761792	25.43	26.51	29.14	27.38	30.42	29.79	1375.53	1429.28	1598.57	1514.71	1617.68	1571.18
ubiquitin-like 4B	Ubl4b	100769727	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
ubiquitin-like 5	Ubl5	100764154	207.65	202.16	186.31	197.97	207.31	209.09	2081.90	2011.24	1875.55	1901.79	2010.98	2000.19
ubiquitin-like 7	Ubl7	100752133	67.68	68.30	78.56	66.25	61.22	68.53	2542.18	2543.79	2961.14	2441.84	2260.41	2538.56
ubiquitin-like domain containing CTD phosphatase 1	Ublcp1	100762523	11.75	13.40	14.80	15.16	16.92	16.57	653.20	763.14	835.92	834.42	948.05	917.85
ubinuclein 1	Ubn1	100770732	12.71	13.19	14.74	15.96	15.25	15.20	1738.59	1795.30	2037.02	2206.58	2089.64	2081.51
ubinuclein 2	Ubn2	100768627	3.41	3.22	3.00	3.76	3.92	3.68	1361.09	1274.64	1230.91	1505.44	1537.99	1461.82
U-box domain containing 5	Ubox5	100769179	10.28	10.66	11.36	11.05	10.89	11.22	655.48	675.29	741.53	720.85	689.30	732.78
upstream binding protein 1 (LBP-1a)	Ubp1	100766280	15.75	14.97	17.49	16.93	18.12	17.19	1660.35	1604.97	1839.53	1769.67	1900.23	1834.76
ubiquilin 1	Ubqln1	100764107	117.66	116.78	120.35	111.28	109.97	116.28	7289.30	7316.61	7553.13	6947.72	6869.20	7285.75
ubiquilin 2	Ubqln2	100765357	29.65	27.55	32.32	29.68	24.45	26.50	1749.22	1634.25	1928.96	1759.24	1440.70	1582.40
ubiquilin 3	Ubqln3	100763544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquilin 4	Ubqln4	100763773	83.20	79.64	77.20	72.65	66.48	70.37	8176.44	7862.88	7663.68	7113.45	6467.63	6905.34
ubiquilin-like	Ubqlnl	100765298	0.02	0.02	0.03	0.00	0.02	0.00	0.76	0.92	1.24	0.00	1.03	0.00
ubiquitin protein ligase E3 component n-recognin 1	Ubr1	100769170	5.61	5.41	5.85	6.46	7.66	7.04	1209.19	1176.73	1265.69	1386.07	1628.03	1511.36
ubiquitin protein ligase E3 component n-recognin 2	Ubr2	100767969	18.38	18.50	21.63	23.58	25.78	25.04	4138.73	4225.62	4908.73	5277.72	5791.78	5627.65
ubiquitin protein ligase E3 component n-recognin 3 (putative)	Ubr3	100772607	11.50	11.19	11.90	13.89	14.72	13.49	2172.28	2109.15	2263.08	2599.46	2719.94	2519.87
ubiquitin protein ligase E3 component n-recognin 4	Ubr4	100764402	23.21	22.78	24.64	25.51	23.12	23.87	11316.37	11221.06	12135.19	12396.97	11212.01	11617.01

ubiquitin protein ligase E3 component n-recognin 5	Ubr5	100768719	34.09	33.12	32.96	36.94	29.99	29.85	9690.96	9565.76	9545.44	10546.17	8589.35	8501.76
ubiquitin protein ligase E3 component n-recognin 7 (putative)	Ubr7	100767869	31.57	32.68	38.18	40.70	48.30	48.71	2789.03	2913.47	3435.61	3603.08	4260.00	4350.89
ubiquitin domain containing 1	Ubtd1	100758245	8.82	7.82	6.79	4.31	1.90	2.98	330.40	290.98	253.39	155.30	71.41	107.49
ubiquitin domain containing 2	Ubtd2	100772830	23.93	23.02	19.46	19.78	15.28	16.87	561.30	555.43	476.96	494.86	397.43	426.21
upstream binding transcription factor, RNA polymerase I	Ubtf	100689026	108.28	112.00	95.20	89.22	77.20	84.58	8948.13	9363.54	8045.00	7434.47	6302.03	6820.28
UBX domain protein 1	Ubxn1	100755299	58.50	54.50	64.22	50.48	33.29	41.89	214.95	215.95	193.77	75.33	49.68	50.47
UBX domain protein 10	Ubxn10	100755290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UBX domain protein 11	Ubxn11	100768279	2.55	2.15	3.60	3.21	2.80	3.10	143.55	138.17	195.01	183.11	159.39	183.20
UBX domain protein 2A	Ubxn2a	100761536	8.36	8.99	8.90	9.48	10.18	9.58	361.54	405.36	391.26	413.73	441.94	419.67
UBX domain protein 2B	Ubxn2b	100755666	2.65	1.71	1.53	2.14	2.06	1.95	100.26	78.69	62.10	85.76	90.04	97.21
UBX domain protein 4	Ubxn4	100766565	29.67	30.01	30.81	33.17	33.50	32.24	3375.39	3439.61	3508.90	3749.11	3777.70	3648.02
UBX domain protein 6	Ubxn6	100756826	24.12	22.89	21.03	16.35	11.94	12.79	1206.15	1186.80	1070.68	827.47	617.89	634.64
UBX domain protein 7	Ubxn7	100761607	14.65	15.16	17.48	19.43	22.12	20.47	2226.21	2272.94	2686.63	2904.25	3305.75	3090.95
UBX domain protein 8	Ubxn8	100757686	38.64	39.99	39.99	41.98	49.99	49.52	2755.61	2865.89	2843.14	2881.07	3470.31	3424.63
ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	Uchl1	100766373	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)	Uchl3	100755386	87.84	89.15	82.68	88.81	97.46	86.45	1835.81	1884.97	1702.90	1796.33	1961.30	1755.31
ubiquitin carboxyl-terminal hydrolase L5	Uchl5	100765837	40.09	39.91	41.14	45.57	44.12	40.06	1913.28	1946.28	1943.87	2154.43	2116.55	1885.23
uridine-cytidine kinase 1	Uck1	100754740	12.28	12.83	15.12	15.21	16.33	17.29	678.27	715.56	828.47	833.26	880.77	949.62
uridine-cytidine kinase 2	Uck2	100760992	46.01	43.25	46.61	49.14	41.59	42.77	5278.04	5033.60	5473.88	5675.23	4807.51	4873.37
uridine-cytidine kinase 1-like 1	Uckl1	100763963	14.30	13.15	13.96	13.73	13.02	15.29	989.68	956.21	993.67	987.40	948.05	1112.26
upper zone of growth plate and cartilage matrix associated	Ucma	100774059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
urocortin	Ucn	100766070	0.10	0.03	0.04	0.08	0.07	0.03	6.08	2.75	1.24	5.79	3.10	0.93
urocortin 2	Ucn2	100761278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
urocortin 3	Ucn3	100767799	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uncoupling protein 1 (mitochondrial, proton carrier)	Ucp1	100772970	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
uncoupling protein 2 (mitochondrial, proton carrier)	Ucp2	100758980	0.00	0.05	0.00	0.00	0.00	0.00	2.28	1.83	0.00	0.00	0.00	0.93
uncoupling protein 3 (mitochondrial, proton carrier)	Ucp3	100758689	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEV and lactate/malate dehyrogenase domains	Uevld	100751959	5.44	5.53	4.65	5.50	6.38	6.34	438.25	419.09	387.53	477.47	534.05	545.85
ubiquitin-fold modifier conjugating enzyme 1	Ufc1	100767197	42.36	39.85	44.79	43.47	44.18	44.09	1258.56	1205.10	1334.00	1279.45	1310.29	1298.26
ubiquitin fusion degradation 1 like (yeast)	Ufd1l	100773227	90.62	87.84	87.70	93.04	98.77	97.04	3072.34	3080.00	3054.29	3196.30	3380.27	3153.58
UFM1-specific ligase 1	Ufl1	100768952	13.15	13.62	10.93	12.57	13.21	12.54	1582.88	1672.68	1355.12	1525.14	1589.74	1525.38
ubiquitin-fold modifier 1	Ufm1	100754244	17.64	20.48	18.72	20.80	22.22	21.01	1678.58	1938.96	1794.82	1942.35	2059.62	1966.55
UFM1-specific peptidase 1 (non-functional)	Ufsp1	100770399	3.60	3.61	4.48	4.05	4.38	4.54	72.92	72.29	86.95	73.01	77.62	81.32
UFM1-specific peptidase 2	Ufsp2	100769508	12.30	11.99	10.66	12.00	12.85	13.11	554.46	550.85	488.14	530.79	580.63	562.67

UDP-glucose ceramide glucosyltransferase	Ugcg	100689432	27.60	26.81	14.32	16.88	19.67	18.48	984.36	960.79	512.98	592.21	711.04	683.24
UDP-glucose glycoprotein glucosyltransferase 1	Uggt1	100773968	29.53	29.37	35.29	38.25	40.82	39.07	5857.57	5836.08	6969.35	7550.36	7990.09	7667.10
UDP-glucose glycoprotein glucosyltransferase 2	Uggt2	100762273	5.45	5.24	7.37	8.77	8.31	7.32	832.45	804.31	1099.25	1295.67	1239.91	1072.07
UDP-glucose pyrophosphorylase 2	Ugp2	100689325	27.78	29.46	27.24	30.98	33.65	32.23	1575.28	1696.47	1581.18	1729.11	1909.55	1819.80
UDP glucuronosyltransferase 2 family, polypeptide A1, complex locus	Ugt2a1	100762963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2AF homology motif (UHM) kinase 1	Uhmk1	100770730	10.71	11.25	8.65	9.11	9.34	9.87	1763.65	1890.46	1463.18	1526.30	1556.62	1660.91
ubiquitin-like with PHD and ring finger domains 1	Uhrf1	100758459	28.62	27.59	28.74	23.92	20.48	21.81	3000.18	2876.87	3004.61	2489.36	2119.65	2303.03
UHRF1 binding protein 1	Uhrf1bp 1	100758863	16.47	14.97	14.50	13.92	10.01	11.64	2690.29	2502.62	2434.49	2343.34	1683.92	1965.61
UHRF1 binding protein 1-like	Uhrf1bp 1l	100764679	19.86	19.53	17.42	19.71	18.59	17.90	3714.15	3700.40	3311.40	3687.68	3500.32	3356.40
ubiquitin-like with PHD and ring finger domains 2, E3 ubiquitin protein ligase	Uhrf2	100762841	22.22	23.09	23.68	26.06	32.03	27.98	2132.03	2274.77	2333.88	2534.56	3100.82	2711.48
ubiquitin interaction motif containing 1	Uimc1	100773489	16.74	17.68	14.52	15.97	16.49	14.66	1248.68	1353.33	1138.99	1189.05	1238.88	1135.62
unc-51 like autophagy activating kinase 1	Ulk1	100772932	6.31	6.18	6.27	5.38	3.61	3.79	849.16	818.04	848.35	715.05	516.46	547.72
unc-51 like autophagy activating kinase 2	Ulk2	100759097	1.60	1.63	1.41	1.71	1.81	1.73	230.14	238.82	204.94	243.37	256.68	250.49
unc-51 like kinase 3	Ulk3	100755048	3.69	3.36	4.44	4.02	3.69	3.32	217.99	212.29	286.92	275.82	278.41	237.41
unc-51 like kinase 4	Ulk4	100773013	2.46	2.50	3.13	2.97	3.08	3.29	308.37	330.33	397.47	398.67	391.22	416.86
uromodulin	Umod	100764823	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uromodulin-like 1	Umodl1	100763683	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
uridine monophosphate synthetase	Ums	100756786	59.63	57.72	64.02	63.53	61.71	63.55	5198.29	5115.04	5699.94	5619.60	5401.59	5577.17
unc-119 homolog (C. elegans)	Unc119	100761334	12.82	12.84	16.94	14.14	11.00	11.70	512.69	508.76	657.06	548.17	422.27	459.86
unc-119 homolog B (C. elegans)	Unc119 b	100755761	18.94	18.20	21.09	21.18	21.28	22.34	2038.60	1960.00	2277.99	2285.39	2268.69	2426.40
unc-13 homolog A (C. elegans)	Unc13a	100773787	0.01	0.02	0.01	0.02	0.00	0.00	2.28	4.58	1.24	2.32	0.00	0.00
unc-13 homolog B (C. elegans)	Unc13b	100774681	0.02	0.01	0.02	0.01	0.00	0.01	8.35	5.49	7.45	6.95	7.24	9.35
unc-13 homolog C (C. elegans)	Unc13c	100754632	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.24	0.00	0.00	0.00
unc-13 homolog D (C. elegans)	Unc13d	100757716	0.05	0.00	0.04	0.02	0.00	0.02	6.08	4.58	6.21	2.32	2.07	1.87
unc-45 homolog A (C. elegans)	Unc45a	100765013	17.29	16.47	20.09	17.29	12.45	14.45	1785.68	1710.20	2064.35	1783.58	1287.52	1497.34
unc-45 homolog B (C. elegans)	Unc45b	100766758	0.08	0.08	0.10	0.08	0.02	0.04	7.60	7.32	8.69	6.95	4.14	4.67
unc-50 homolog (C. elegans)	Unc50	100766666	26.44	25.84	25.63	26.95	28.61	28.50	763.34	743.01	736.56	744.03	809.36	788.86
unc-5 homolog A (C. elegans)	Unc5a	100766199	0.00	0.00	0.02	0.01	0.01	0.01	0.00	0.00	1.24	1.16	2.07	1.87
unc-5 homolog B (C. elegans)	Unc5b	100760860	1.38	1.48	0.01	0.11	0.00	0.00	139.00	149.15	4.97	11.59	0.00	0.00
unc-5 homolog C (C. elegans)	Unc5c	100762557	0.02	0.01	0.03	0.01	0.01	0.01	3.80	2.75	4.97	1.16	1.03	1.87
unc-5 homolog C (C. elegans)-like	Unc5cl	100758114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unc-5 homolog D (C. elegans)	Unc5d	100762594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

unc-79 homolog (C. elegans)	Unc79	100765551	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unc-80 homolog (C. elegans)	Unc80	100759311	0.03	0.03	0.02	0.01	0.04	0.02	53.17	35.69	24.84	18.54	37.26	40.19
unc-93 homolog A (C. elegans)	Unc93a	100772557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
unc-93 homolog B1 (C. elegans)	Unc93b 1	100756178	5.36	6.05	9.56	7.73	5.74	5.82	367.62	403.53	637.19	528.47	388.12	400.97
UNC homeobox	Uncx	100771344	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uracil-DNA glycosylase	Ung	100753421	17.30	16.84	16.24	15.26	15.06	15.85	892.46	877.52	853.31	789.22	780.38	821.57
unkempt family zinc finger	Unk	100753431	3.94	3.30	4.13	3.73	2.72	2.79	474.71	395.29	499.32	436.91	322.92	332.74
unkempt family zinc finger-like	Unkl	100764253	5.93	6.22	7.46	5.95	5.83	5.73	562.06	584.71	690.60	618.86	560.96	555.19
ureidopropionase, beta	Upb1	100762944	6.83	8.91	3.72	3.95	5.02	5.46	294.70	380.65	158.99	173.84	213.21	233.67
UPF1 regulator of nonsense transcripts homolog (yeast)	Upf1	100765798	45.17	42.62	38.25	29.76	20.97	23.93	5716.29	5493.86	4977.04	3862.68	2799.64	3094.69
UPF2 regulator of nonsense transcripts homolog (yeast)	Upf2	100771546	14.02	12.76	12.43	15.59	15.73	14.91	2221.65	2027.71	2010.94	2461.55	2475.69	2365.65
UPF3 regulator of nonsense transcripts homolog A (yeast)	Upf3a	100759208	19.74	20.31	19.90	22.38	23.71	22.91	995.00	1037.65	1001.12	1148.49	1217.14	1151.51
UPF3 regulator of nonsense transcripts homolog B (yeast)	Upf3b	100767364	11.96	12.76	13.52	16.10	14.52	13.63	562.06	546.28	592.48	698.83	646.87	593.52
uroplakin 1A	Upk1a	100750870	3.76	3.03	2.86	2.22	2.41	2.21	40.26	32.94	31.05	20.86	23.80	22.43
uroplakin 1B	Upk1b	100759168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00	0.00
uroplakin 2	Upk2	100759757	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
uroplakin 3B	Upk3b	100765228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uridine phosphorylase 1	Upp1	100752663	0.30	0.30	0.05	0.00	0.00	0.00	12.91	10.07	1.24	2.32	0.00	0.00
uridine phosphorylase 2	Upp2	100758277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uracil phosphoribosyltransferase (FUR1) homolog (S. cerevisiae)	Uprt	100764380	12.24	11.87	9.61	11.28	10.01	11.07	803.59	775.03	632.22	742.87	686.20	731.85
ureidoimidazoline (2-oxo-4-hydroxy-4-carboxy-5-) decarboxylase	Urad	100762187	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
URB1 ribosome biogenesis 1 homolog (S. cerevisiae)	Urb1	100766838	11.11	10.77	9.89	9.86	8.83	9.10	2542.18	2491.64	2309.04	2292.34	2048.24	2096.46
URB2 ribosome biogenesis 2 homolog (S. cerevisiae)	Urb2	100768105	16.38	15.82	17.21	17.08	16.57	18.48	2451.03	2369.02	2573.60	2543.83	2463.27	2761.95
upregulator of cell proliferation	Urgcp	100768349	25.05	24.04	29.66	26.34	22.24	24.02	2309.76	2254.64	2817.05	2458.07	1987.17	2169.37
URI1, prefoldin-like chaperone	Uri1	100753065	30.33	30.89	31.28	30.52	27.41	27.78	2556.61	2563.92	2663.03	2541.51	2284.21	2303.03
ubiquitin related modifier 1	Urm1	100765578	77.58	74.02	71.12	64.70	53.10	60.36	2659.15	2554.77	2509.02	2251.78	1854.70	2158.15
urocanate hydratase 1	Uroc1	100761511	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
uroporphyrinogen decarboxylase	Urod	100753284	23.91	21.32	31.67	28.61	27.59	32.25	881.07	812.55	1188.68	1069.68	1033.95	1199.18
uroporphyrinogen III synthase	Uros	100757472	10.61	10.18	9.85	9.33	10.20	11.00	410.15	388.89	365.17	378.97	370.53	420.60
U6 snRNA biogenesis 1	Usb1	100762459	11.53	11.46	13.41	13.65	15.62	16.92	574.21	572.81	668.24	691.88	789.69	837.46
unconventional SNARE in the ER 1 homolog (S. cerevisiae)	Use1	100756228	9.61	8.43	14.05	8.75	6.45	7.17	527.12	480.39	770.09	506.45	359.14	402.84
upstream transcription factor 1	Usf1	100764971	20.86	19.29	24.51	24.92	23.56	24.48	1085.38	1016.60	1254.51	1270.18	1208.86	1266.48
upstream transcription factor 2, c-fos interacting	Usf2	100757386	22.00	22.64	25.36	25.87	21.33	20.99	578.01	593.86	674.45	632.77	541.30	578.56
Usher syndrome 1C (autosomal recessive, severe)	Ush1c	100764095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Usher syndrome 1G (autosomal recessive)	Ush1g	100772697	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
Usher syndrome 2A (autosomal recessive, mild)	Ush2a	100751208	0.32	0.37	0.18	0.25	0.34	0.36	196.72	226.01	115.51	163.41	202.86	227.12

Usher syndrome 1C binding protein 1	Ushbp1	100753904	0.09	0.11	0.07	0.08	0.08	0.05	22.03	21.05	17.39	15.07	11.38	15.89
up-regulated during skeletal muscle growth 5 homolog (mouse)	Usmg5	100752772	259.09	254.08	243.48	255.46	285.36	275.89	1436.29	1453.99	1311.64	1300.31	1519.36	1403.87
USO1 vesicle transport factor	Uso1	100754738	24.21	24.00	27.23	32.39	32.93	31.86	2858.91	2856.73	3292.77	3798.94	3858.43	3686.34
ubiquitin specific peptidase 1	Usp1	100754655	54.43	55.55	57.74	66.15	74.39	67.49	4946.88	5098.57	5311.16	6032.18	6743.97	6099.65
ubiquitin specific peptidase 10	Usp10	100758613	58.14	57.87	62.69	62.63	57.03	59.84	5608.44	5637.52	6161.99	6055.36	5476.11	5756.63
ubiquitin specific peptidase 11	Usp11	100770478	18.14	17.89	24.05	25.76	23.09	24.37	1301.85	1293.86	1670.61	1769.67	1591.81	1674.93
ubiquitin specific peptidase 12	Usp12	100764216	14.60	14.05	12.40	13.59	14.76	14.54	1689.97	1606.80	1433.37	1565.70	1723.25	1681.47
ubiquitin specific peptidase 13 (isopeptidase T-3)	Usp13	100768951	8.08	8.16	10.50	10.60	8.18	7.88	758.78	770.46	1006.09	1010.58	790.73	747.74
ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)	Usp14	100770363	42.98	44.49	43.28	46.73	55.63	54.72	1598.83	1676.34	1599.81	1737.22	2036.85	2038.51
ubiquitin specific peptidase 15	Usp15	100759035	21.12	20.22	20.71	23.44	24.63	21.24	3110.31	3011.38	3101.49	3505.73	3630.73	3103.10
ubiquitin specific peptidase 16	Usp16	100769154	20.21	19.72	20.54	25.11	26.08	24.57	1803.91	1782.49	1822.14	2200.79	2315.26	2184.32
ubiquitin specific peptidase 18	Usp18	100753049	0.12	0.10	0.05	0.05	0.07	0.06	6.84	4.58	2.48	2.32	3.10	2.80
ubiquitin specific peptidase 19	Usp19	100762852	31.15	31.11	37.00	33.87	29.25	32.53	4328.61	4335.43	5204.34	4678.56	4046.80	4493.89
ubiquitin specific peptidase 2	Usp2	100758523	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin specific peptidase 20	Usp20	100759784	4.28	3.85	5.16	4.92	4.34	4.72	481.55	458.43	607.38	558.60	490.58	547.72
ubiquitin specific peptidase 21	Usp21	100767485	17.04	16.59	18.11	14.87	11.29	13.93	1095.26	1062.35	1157.62	1024.49	790.73	955.23
ubiquitin specific peptidase 24	Usp24	100768766	17.05	17.63	15.44	17.37	17.81	16.69	4561.79	4738.96	4133.66	4597.44	4742.31	4423.79
ubiquitin specific peptidase 25	Usp25	100765702	23.21	23.17	24.65	28.17	29.41	27.14	3104.24	3166.02	3338.73	3749.11	3903.97	3592.87
ubiquitin specific peptidase 26	Usp26	100763595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin specific peptidase 27, X-linked	Usp27x	100767675	4.44	4.91	3.24	4.31	3.62	3.79	299.26	329.41	218.61	296.68	246.33	257.03
ubiquitin specific peptidase 28	Usp28	100756704	31.93	32.13	36.19	39.11	40.68	40.58	3886.56	3950.20	4428.04	4753.89	4909.98	4924.77
ubiquitin specific peptidase 3	Usp3	100751435	16.14	15.07	17.01	16.03	15.65	17.06	846.13	827.19	911.69	856.44	836.27	882.33
ubiquitin specific peptidase 30	Usp30	100772643	21.40	22.02	23.00	23.04	21.97	23.67	2378.12	2483.40	2633.22	2598.30	2477.76	2639.51
ubiquitin specific peptidase 31	Usp31	100765286	7.58	7.36	7.28	7.76	8.28	8.10	2197.35	2133.86	2135.15	2241.35	2372.19	2347.89
ubiquitin specific peptidase 32	Usp32	100763480	6.63	6.45	3.43	3.93	4.12	3.90	1480.34	1476.86	778.79	886.57	930.45	879.52
ubiquitin specific peptidase 33	Usp33	100758810	15.19	14.96	16.19	17.56	18.55	16.56	1685.42	1668.11	1813.45	1927.28	2036.85	1849.71
ubiquitin specific peptidase 34	Usp34	100756675	17.94	16.75	16.79	20.11	21.40	20.27	3490.84	3363.66	3344.94	3986.68	4220.67	3973.28
ubiquitin specific peptidase 35	Usp35	100765174	3.27	3.41	3.38	3.23	2.85	3.12	363.82	374.25	381.32	354.63	318.78	351.44
ubiquitin specific peptidase 36	Usp36	100768120	30.59	28.71	27.03	24.99	19.97	22.18	4878.52	4588.89	4392.02	4072.44	3249.86	3596.61
ubiquitin specific peptidase 37	Usp37	100772571	11.71	12.29	13.67	15.10	16.53	15.57	2470.02	2585.88	2897.79	3178.92	3433.05	3260.13
ubiquitin specific peptidase 38	Usp38	100753531	14.03	12.65	15.41	17.20	19.39	17.73	1538.07	1391.77	1731.47	1911.06	2170.37	1981.50
ubiquitin specific peptidase 39	Usp39	100773035	30.63	28.67	31.28	34.52	36.19	35.55	2250.51	2152.16	2335.12	2532.24	2649.56	2576.88
ubiquitin specific peptidase 4 (proto-oncogene)	Usp4	100771478	37.49	35.87	43.35	43.86	45.67	47.78	4244.31	4067.32	4882.64	4862.83	5011.40	5280.88
ubiquitin specific peptidase 40	Usp40	100771238	27.28	26.44	22.99	25.15	26.52	26.79	4238.99	4159.74	3675.33	3954.23	4159.61	4182.65
ubiquitin specific peptidase 42	Usp42	100765020	7.13	6.67	7.00	7.04	6.85	6.69	1134.75	1051.37	1134.03	1127.63	1097.09	1092.63
ubiquitin specific peptidase 43	Usp43	100768395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ubiquitin specific peptidase 44	Usp44	100755261	0.00	0.01	0.00	0.02	0.05	0.00	2.28	2.75	1.24	3.48	5.17	0.93
ubiquitin specific peptidase 45	Usp45	100765820	9.44	9.06	8.44	8.61	8.55	8.30	768.65	751.24	710.47	735.91	710.00	669.22
ubiquitin specific peptidase 46	Usp46	100765874	15.69	17.23	15.92	15.61	16.56	15.95	1988.47	2172.29	1994.79	1943.51	2048.24	2001.13
ubiquitin specific peptidase 47	Usp47	100766617	35.19	35.64	43.70	47.99	49.16	47.55	5707.18	5768.37	7073.68	7707.98	7842.09	7682.98
ubiquitin specific peptidase 48	Usp48	100768145	14.61	13.94	14.35	15.12	17.01	16.36	2327.99	2240.00	2326.43	2426.78	2746.85	2600.25
ubiquitin specific peptidase 49	Usp49	100771034	2.09	1.92	2.31	2.34	2.14	2.48	161.78	154.64	188.80	185.43	165.60	187.87

ubiquitin specific peptidase 5 (isopeptidase T)	Usp5	100757368	50.68	51.16	54.51	54.33	51.39	51.60	4681.04	4745.36	5056.54	5044.78	4750.59	4828.50
ubiquitin specific peptidase 50	Usp50	100759680	0.03	0.00	0.00	0.08	0.10	0.03	0.76	0.92	1.24	2.32	4.14	1.87
ubiquitin specific peptidase 51	Usp51	100766236	0.83	0.67	0.86	0.61	0.43	0.60	53.17	41.18	52.17	39.40	31.05	41.13
ubiquitin specific peptidase 53	Usp53	100754736	1.60	1.59	0.82	0.80	0.99	1.04	303.06	308.37	162.71	149.50	189.40	195.35
USP6 N-terminal like	Usp6nl	100770492	16.02	16.83	16.34	19.19	19.89	17.58	1280.58	1359.74	1329.03	1539.05	1569.04	1419.76
ubiquitin specific peptidase 7 (herpes virus-associated)	Usp7	100769056	38.67	39.76	40.09	44.19	42.72	40.03	5289.43	5429.81	5492.51	5969.60	5763.84	5436.97
ubiquitin specific peptidase 8	Usp8	100753287	46.74	44.25	45.30	52.06	54.54	52.02	5263.61	5040.92	5231.67	5878.04	6155.06	5908.05
ubiquitin specific peptidase 9, X-linked	Usp9x	100763346	24.36	24.40	23.99	29.41	29.28	27.35	6748.51	6730.99	6673.73	8081.15	8009.76	7548.39
ubiquitin specific peptidase like 1	Uspl1	100754469	25.69	25.26	26.70	28.48	26.97	27.21	2326.47	2272.94	2408.41	2611.05	2463.27	2448.83
uronyl-2-sulfotransferase	Ust	100760763	8.00	8.47	7.95	8.05	8.97	9.04	659.28	686.28	642.16	679.13	726.56	742.13
undifferentiated embryonic cell transcription factor 1	Utf1	100770383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UTP11-like, U3 small nucleolar ribonucleoprotein (yeast)	Utp11l	100750974	49.32	50.20	48.67	50.99	52.23	50.67	1449.20	1497.91	1434.61	1485.74	1565.93	1430.98
UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast)	Utp14a	100771952	38.00	38.80	37.00	40.76	39.51	36.58	2780.67	2884.19	2787.24	2978.42	2915.56	2673.16
UTP15, U3 small nucleolar ribonucleoprotein, homolog (S. cerevisiae)	Utp15	100755487	34.28	34.03	35.35	39.10	37.41	38.31	2808.78	2778.04	2942.50	3184.71	3022.16	3188.16
UTP18 small subunit (SSU) processome component homolog (yeast)	Utp18	100761065	65.97	66.84	31.31	35.77	35.08	34.58	2897.64	2979.35	1440.82	1548.32	1540.06	1473.97
UTP20, small subunit (SSU) processome component, homolog (yeast)	Utp20	100772924	36.76	36.88	35.62	37.93	37.77	37.87	10048.70	10273.08	9950.36	10418.69	10425.42	10352.40
UTP23, small subunit (SSU) processome component, homolog (yeast)	Utp23	100751711	15.89	17.47	18.52	15.78	15.61	15.60	259.76	284.58	305.55	267.71	248.40	248.62
UTP3, small subunit (SSU) processome component, homolog (S. cerevisiae)	Utp3	100774325	40.65	40.61	37.42	37.86	38.95	38.57	1756.05	1748.63	1618.44	1625.96	1667.36	1665.58
UTP6, small subunit (SSU) processome component, homolog (yeast)	Utp6	100761515	21.90	21.50	21.28	22.51	24.81	22.93	1863.91	1869.41	1863.13	1945.83	2171.40	1950.66
utrophin	Utrn	100757299	9.78	10.29	12.66	14.24	15.50	15.35	3663.26	3898.04	4767.13	5263.81	5741.07	5675.31
urotensin 2	Uts2	100768033	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	1.16	0.00	0.00
urotensin 2 receptor	Uts2r	100772706	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
UV radiation resistance associated	Uvrag	100751375	15.29	15.45	17.05	18.16	19.22	19.30	1352.74	1393.60	1537.70	1586.56	1703.59	1640.35
UV-stimulated scaffold protein A	Uvssa	100766412	8.98	9.50	9.40	8.36	8.85	9.81	859.04	929.67	925.35	820.52	878.70	944.95
UDP-glucuronate decarboxylase 1	Uxs1	100763471	14.97	13.68	15.44	17.82	18.24	16.65	753.46	687.19	783.76	868.03	882.84	828.12
ubiquitously-expressed, prefoldin-like chaperone	Uxt	100764181	33.94	35.51	36.65	36.12	39.33	40.98	777.01	846.41	865.73	825.15	910.79	932.80
Vac14 homolog (S. cerevisiae)	Vac14	100753800	16.40	15.00	19.73	17.52	13.76	15.24	1531.99	1424.71	1896.67	1661.89	1311.33	1455.28
vesicle-associated membrane protein 1 (synaptobrevin 1)	Vamp1	100752483	0.80	0.88	0.73	0.99	0.97	1.15	30.38	28.37	33.54	28.97	31.05	32.71
vesicle-associated membrane protein 2 (synaptobrevin 2)	Vamp2	100753583	5.10	5.07	6.57	5.82	13.01	12.74	293.94	298.30	372.63	333.77	742.09	738.39
vesicle-associated membrane protein 3	Vamp3	100763068	96.52	97.30	105.75	113.50	139.63	135.29	4871.68	4954.91	5415.50	5723.91	6976.84	6770.75

vesicle-associated membrane protein 4	Vamp4	100771557	28.28	28.27	29.20	29.09	35.64	33.06	1258.56	1313.07	1331.52	1311.90	1637.35	1498.28
vesicle-associated membrane protein 5	Vamp5	100752031	5.41	5.93	6.77	5.38	5.36	6.10	81.27	85.10	96.88	70.69	67.27	73.84
vesicle-associated membrane protein 7	Vamp7	100754032	10.89	12.24	10.69	12.72	14.22	13.42	307.61	344.05	321.70	347.68	407.78	373.87
vesicle-associated membrane protein 8	Vamp8	100774199	46.72	48.66	44.03	51.15	54.22	51.70	777.77	784.18	748.98	814.72	867.32	801.95
VANGL planar cell polarity protein 1	Vangl1	100750491	5.96	6.25	5.76	6.15	6.06	5.58	1039.05	1088.89	1008.57	1077.80	1043.27	972.99
VANGL planar cell polarity protein 2	Vangl2	100761060	4.29	3.69	3.28	3.29	2.37	2.48	287.87	251.63	247.18	237.58	187.33	207.50
VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	Vapa	100758387	226.00	232.16	220.81	224.83	248.68	242.99	9437.27	9897.92	9501.96	9665.39	10583.77	10312.21
VAMP (vesicle-associated membrane protein)-associated protein B and C	Vapb	100768207	95.17	93.32	79.97	73.88	76.80	75.76	5227.91	5203.80	4511.26	4059.70	4197.90	4149.93
valyl-tRNA synthetase	Vars	100769994	44.13	40.38	44.35	34.02	22.05	25.89	5038.78	4685.89	5054.05	3889.34	2620.59	2963.84
valyl-tRNA synthetase 2, mitochondrial	Vars2	100755870	13.73	12.61	14.39	10.52	7.08	7.22	1715.80	1619.61	1817.17	1375.64	943.91	963.64
vasohibin 1	Vash1	100757885	3.80	3.73	5.25	4.15	4.01	3.93	499.02	494.12	698.05	556.28	518.53	508.46
vasohibin 2	Vash2	100765067	13.28	12.99	15.31	16.04	15.52	14.47	1452.24	1430.20	1644.52	1717.52	1675.64	1585.20
vasorin	Vasn	100774977	13.18	13.62	11.45	10.26	9.76	9.90	1046.65	1082.48	914.18	812.40	768.99	789.80
vasodilator-stimulated phosphoprotein	Vasp	100756352	27.79	29.86	25.46	21.81	15.46	15.47	1567.69	1703.79	1440.82	1209.91	864.21	909.43
vesicle amine transport 1	Vat1	100752920	272.72	258.33	197.00	146.91	106.67	120.36	6723.44	6496.74	4955.93	3640.17	2730.29	2987.20
vesicle amine transport 1-like	Vat1l	100763479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vav 1 guanine nucleotide exchange factor	Vav1	100765426	0.00	0.01	0.00	0.00	0.03	0.00	0.76	1.83	0.00	0.00	2.07	0.93
vav 2 guanine nucleotide exchange factor	Vav2	100759294	6.61	6.63	6.03	6.20	5.13	5.61	422.30	414.51	380.08	392.87	339.48	357.04
vav 3 guanine nucleotide exchange factor	Vav3	100768658	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
ventral anterior homeobox 2	Vax2	100757544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Hippel-Lindau binding protein 1	Vbp1	100753433	94.07	98.44	78.74	84.48	99.82	94.89	3854.66	4053.60	3269.17	3465.17	4061.29	3907.85
vascular cell adhesion molecule 1	Vcam1	100761508	0.69	0.72	0.22	0.14	0.00	0.02	40.26	40.26	13.66	8.11	0.00	0.93
versican	Vcan	100766891	2.10	2.08	1.34	1.88	1.94	1.90	603.83	620.39	388.77	529.63	549.58	547.72
vinculin	Vcl	100759958	8.44	7.75	8.38	9.55	8.81	9.00	897.02	875.69	904.24	1051.14	992.55	1009.44
valosin containing protein	Vcp	103161970	104.52	107.92	104.74	110.40	105.28	105.76	8124.79	8406.41	8171.69	8503.00	8099.80	8226.96
valosin containing protein (p97)/p47 complex interacting protein 1	Vcpip1	100763244	6.04	6.11	7.15	7.64	6.52	6.12	870.43	881.18	1042.11	1092.86	933.56	883.26
valosin containing protein lysine (K) methyltransferase	Vcpkmt	100769613	15.77	14.05	12.83	14.85	17.40	14.37	483.83	436.47	424.79	469.36	563.03	467.33
voltage-dependent anion channel 1	Vdac1	100765792	85.27	90.14	85.92	86.24	86.09	83.54	3056.39	3290.46	3147.45	3032.89	3058.38	2942.34
voltage-dependent anion channel 2	Vdac2	100761812	182.92	183.58	190.33	192.17	204.81	199.97	6953.58	7021.05	7302.23	7240.93	7574.03	7483.90
voltage-dependent anion channel 3	Vdac3	100774187	80.68	82.24	89.44	95.70	103.23	99.59	2947.77	3057.13	3326.31	3464.01	3708.36	3619.98
vitamin D (1,25- dihydroxyvitamin D3) receptor	Vdr	100767048	19.05	15.52	11.81	12.50	16.43	14.31	1444.64	1380.79	1100.49	1269.02	1275.10	1223.48
vascular endothelial growth factor A	Vegfa	100755957	33.41	31.24	22.12	20.84	17.81	18.78	3210.57	3021.44	2120.24	1986.39	1648.73	1773.07
vascular endothelial growth factor B	Vegfb	100759545	35.50	32.49	53.85	45.17	42.06	43.57	1042.85	970.85	1492.99	1235.41	1085.70	1158.06
vascular endothelial growth factor C	Vegfc	100753419	28.45	27.68	33.12	36.36	40.83	40.41	1436.29	1405.49	1663.15	1818.35	2053.41	2002.06
ventricular zone expressed PH domain-containing 1	Veph1	100754002	0.00	0.03	0.01	0.01	0.04	0.01	0.76	2.75	2.48	1.16	3.10	0.93
vascular endothelial zinc finger 1	Vezf1	100766279	33.96	33.00	24.30	25.49	27.83	28.59	3491.60	3411.24	2540.07	2622.64	2809.99	2931.12

vezatin, adherens junctions transmembrane protein	Vezt	100758457	16.23	16.49	18.93	19.03	22.64	20.67	1402.87	1425.62	1645.77	1632.92	1956.12	1786.15
VGF nerve growth factor inducible	Vgf	100769566	1.17	1.68	1.03	0.49	0.25	0.11	26.58	37.52	19.87	12.75	8.28	6.54
vestigial-like family member 1	Vgll1	100767081	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vestigial-like family member 2	Vgll2	100760317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vestigial-like family member 3	Vgll3	100762839	15.54	16.74	23.15	27.96	29.64	27.39	3014.61	3249.28	4524.92	5407.52	5677.93	5314.53
vestigial-like family member 4	Vgll4	100753837	21.15	21.39	20.78	18.86	17.61	18.62	2097.85	2117.39	2107.82	1901.79	1778.11	1892.71
von Hippel-Lindau tumor suppressor, E3 ubiquitin protein ligase	Vhl	100751916	14.34	14.46	18.16	17.52	18.75	20.06	1178.80	1184.05	1490.50	1437.06	1527.64	1653.43
vigilin	Vigilin	100768013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
villin 1	Vil1	100773155	0.07	0.12	0.08	0.10	0.09	0.05	13.67	14.64	17.39	11.59	20.70	23.37
villin-like	Vill	100751215	1.58	1.85	2.14	2.15	1.69	2.05	222.54	249.80	289.41	293.21	260.82	291.62
vimentin	Vim	100689099	680.33	697.99	586.55	570.87	590.22	594.87	36149.51	37643.56	31848.35	30607.07	31641.60	31562.86
VCP-interacting membrane protein	Vimp	100768801	26.81	25.78	30.00	26.07	28.97	31.92	1080.06	1076.08	1218.49	1063.89	1163.32	1268.35
vasoactive intestinal peptide	Vip	100773469	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VPS33B interacting protein, apical-basolateral polarity regulator, spe-39 homolog	Vipas39	100760970	20.54	20.87	20.31	21.40	23.73	22.79	1566.93	1599.48	1547.64	1617.85	1791.56	1716.05
vasoactive intestinal peptide receptor 1	Vipr1	100767840	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.41	2.48	3.48	1.03	1.87
vasoactive intestinal peptide receptor 2	Vipr2	100760918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vitrin	Vit	100766029	0.01	0.00	0.00	0.00	0.00	0.00	0.76	1.83	0.00	0.00	0.00	0.93
vitamin K epoxide reductase complex, subunit 1	Vkorc1	100755703	14.85	15.08	15.99	16.18	13.59	16.30	306.09	294.64	349.03	358.11	303.25	375.74
vitamin K epoxide reductase complex, subunit 1-like 1	Vkorc1l1	100757934	33.82	34.80	32.81	36.05	37.26	35.82	4155.44	4300.66	4064.11	4537.17	4596.37	4442.49
VMA21 vacuolar H+-ATPase homolog (S. cerevisiae)	Vma21	100772090	20.65	21.07	19.90	22.21	24.82	23.39	2495.09	2563.01	2436.97	2695.65	2989.04	2846.07
vimentin-type intermediate filament associated coiled-coil protein	Vmac	100772248	8.55	8.14	8.48	7.17	6.80	7.77	458.00	440.13	462.06	389.40	355.00	405.65
vitelline membrane outer layer 1 homolog (chicken)	Vmo1	100769165	0.05	0.30	0.00	0.08	0.14	0.13	1.52	7.32	0.00	2.32	3.10	2.80
vacuole membrane protein 1	Vmp1	100756933	38.16	39.20	22.91	24.18	25.58	25.07	2188.23	2245.49	1305.43	1362.89	1439.67	1423.50
vanin 1	Vnn1	100750608	14.80	15.80	1.50	2.10	1.57	1.48	768.65	810.72	78.25	110.10	81.76	79.45
vesicular, overexpressed in cancer, prosurvival protein 1	Vopp1	100767477	34.01	35.43	44.81	46.80	45.14	45.02	2369.00	2454.12	3200.86	3298.29	3215.70	3227.41
Vpr (HIV-1) binding protein	Vprbp	100768333	20.39	21.19	21.64	22.75	23.53	23.16	4241.27	4400.40	4554.73	4779.39	4950.34	4854.67
pre-B lymphocyte 1	Vpreb1	103158602	0.36	0.33	0.28	0.09	0.20	0.26	18.99	14.64	16.15	3.48	8.28	11.22
pre-B lymphocyte 3	Vpreb3	100766910	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
vacuolar protein sorting 11 homolog (S. cerevisiae)	Vps11	100758112	33.85	33.09	34.02	35.66	36.88	37.38	3170.32	3163.27	3287.80	3402.59	3503.43	3526.51
vacuolar protein sorting 13 homolog A (S. cerevisiae)	Vps13a	100762383	12.01	10.18	10.64	14.37	15.89	13.42	2346.98	2131.11	2085.46	2687.54	2890.72	2442.29
vacuolar protein sorting 13 homolog B (yeast)	Vps13b	100763509	4.07	4.06	4.77	5.30	4.71	4.64	1555.54	1546.41	1856.92	2073.31	1817.44	1788.02
vacuolar protein sorting 13 homolog C (S. cerevisiae)	Vps13c	100769846	10.29	10.07	10.64	12.19	13.04	12.50	4157.72	4162.49	4374.63	5008.85	5331.21	5047.22
vacuolar protein sorting 13 homolog D (S. cerevisiae)	Vps13d	100755898	11.62	13.19	13.20	13.34	13.30	14.89	2075.06	2177.78	2178.62	2257.58	2260.41	2242.27
vacuolar protein sorting 16 homolog (S. cerevisiae)	Vps16	100770326	14.23	13.60	15.85	17.34	16.50	16.79	1302.61	1287.45	1469.39	1549.48	1513.15	1502.01

vacuolar protein sorting 18 homolog (S. cerevisiae)	Vps18	100761887	8.78	8.29	8.53	6.82	5.16	5.94	953.98	906.80	936.53	742.87	555.79	651.46
vacuolar protein sorting 25 homolog (S. cerevisiae)	Vps25	100760885	129.73	126.26	96.79	88.59	86.72	89.65	3845.55	3780.00	2880.40	2578.60	2608.17	2659.14
vacuolar protein sorting 26 homolog A (S. pombe)	Vps26a	100766289	32.79	32.98	35.20	39.24	41.33	40.21	2695.60	2740.53	2942.50	3258.88	3394.76	3303.12
vacuolar protein sorting 26 homolog B (S. pombe)	Vps26b	100751795	16.77	16.70	18.66	19.69	21.45	20.97	1419.58	1383.53	1571.24	1579.61	1685.99	1662.78
vacuolar protein sorting 28 homolog (S. cerevisiae)	Vps28	100761380	20.55	22.32	25.46	20.69	21.68	23.64	495.98	542.61	609.86	470.52	512.32	553.32
vacuolar protein sorting 29 homolog (S. cerevisiae)	Vps29	100751236	38.68	37.79	37.83	40.91	44.14	44.41	1225.14	1208.76	1198.61	1286.40	1382.74	1407.61
vacuolar protein sorting 33 homolog A (S. cerevisiae)	Vps33a	100769368	24.71	25.26	24.62	24.57	23.51	25.33	2327.23	2409.28	2325.19	2329.43	2204.52	2397.43
vacuolar protein sorting 33 homolog B (yeast)	Vps33b	100771457	15.25	15.38	19.21	19.18	19.80	20.22	1183.36	1180.39	1486.78	1455.60	1525.57	1527.25
vacuolar protein sorting 35 homolog (S. cerevisiae)	Vps35	100767603	34.70	34.73	37.63	41.01	45.29	43.56	3269.82	3302.36	3544.92	3839.50	4245.51	4086.38
vacuolar protein sorting 36 homolog (S. cerevisiae)	Vps36	100772258	15.36	16.14	14.21	16.54	17.74	15.98	1686.18	1751.37	1563.79	1809.07	1912.65	1731.01
vacuolar protein sorting 37 homolog A (S. cerevisiae)	Vps37a	100751708	12.74	13.78	15.27	16.71	16.61	17.69	669.15	691.77	753.95	842.53	840.41	876.72
vacuolar protein sorting 37 homolog B (S. cerevisiae)	Vps37b	100767219	31.63	31.50	27.22	21.38	17.67	19.14	2245.20	2253.73	1960.01	1529.77	1290.63	1392.66
vacuolar protein sorting 37 homolog C (S. cerevisiae)	Vps37c	100763936	31.02	29.92	29.79	27.23	20.88	23.28	2172.28	2132.03	2117.76	1908.74	1459.33	1649.69
vacuolar protein sorting 37 homolog D (S. cerevisiae)	Vps37d	100755847	3.10	3.01	3.37	1.41	1.13	1.59	130.64	125.36	150.29	61.42	44.50	71.03
vacuolar protein sorting 39 homolog (S. cerevisiae)	Vps39	100770322	23.80	23.82	28.33	30.40	32.82	32.69	3140.69	3146.80	3716.32	3983.21	4226.88	4278.92
vacuolar protein sorting 41 homolog (S. cerevisiae)	Vps41	100768202	13.50	13.90	14.19	15.04	18.21	17.79	2142.66	2242.75	2335.12	2379.26	2877.26	2800.27
vacuolar protein sorting 45 homolog (S. cerevisiae)	Vps45	100760381	11.40	11.58	11.98	12.39	15.74	15.58	668.39	689.94	703.02	749.82	932.52	922.52
vacuolar protein sorting 4 homolog A (S. cerevisiae)	Vps4a	100763128	20.16	21.49	24.27	25.42	27.45	26.79	1201.59	1305.75	1512.86	1535.57	1649.77	1633.80
vacuolar protein sorting 4 homolog B (S. cerevisiae)	Vps4b	100752222	26.26	25.34	23.24	26.59	28.34	27.43	2001.39	1902.35	1748.86	1982.91	2092.74	2043.19
vacuolar protein sorting 51 homolog (S. cerevisiae)	Vps51	100767235	10.17	10.20	8.89	7.44	5.47	5.70	761.82	778.69	686.87	578.30	424.34	438.36
vacuolar protein sorting 53 homolog (S. cerevisiae)	Vps53	100760896	7.07	7.66	8.17	9.25	8.78	9.25	594.72	681.70	722.89	770.68	733.81	751.47
vacuolar protein sorting 54 homolog (S. cerevisiae)	Vps54	100768421	20.63	21.65	21.51	22.69	26.46	24.96	1183.36	1189.54	1232.15	1277.13	1476.93	1423.50
vacuolar protein sorting 72 homolog (S. cerevisiae)	Vps72	100769841	64.04	58.74	63.70	57.40	50.11	58.89	2286.97	2165.88	2320.22	2111.55	1805.02	2111.42
vacuolar protein sorting 8 homolog (S. cerevisiae)	Vps8	100754231	11.61	11.47	13.76	14.31	14.23	15.21	1810.74	1759.61	2169.93	2189.20	2125.86	2303.96
VPS9 domain containing 1	Vps9d1	100753080	6.37	6.22	6.14	5.46	4.59	5.03	676.75	640.52	593.72	609.59	516.46	570.15
vaccinia related kinase 1	Vrk1	100761272	34.50	34.26	34.22	38.89	43.46	37.81	1451.48	1410.98	1430.88	1574.97	1731.53	1551.55
vaccinia related kinase 2	Vrk2	100760968	25.38	22.79	27.01	29.85	33.50	30.39	699.54	621.31	730.35	763.73	843.51	809.42
vaccinia related kinase 3	Vrk3	100769608	20.28	20.41	20.15	19.57	17.60	20.37	1179.56	1189.54	1197.37	1192.53	1058.79	1176.75
vertebrae development associated	Vrtn	100768679	0.06	0.05	0.05	0.05	0.00	0.00	3.80	5.49	3.73	3.48	0.00	0.93

V-set and immunoglobulin domain containing 1	Vsig1	100751892	0.10	0.12	0.03	0.12	0.00	0.02	4.56	5.49	1.24	4.64	1.03	0.93
V-set and immunoglobulin domain containing 10	Vsig10	100758703	14.61	14.54	19.83	18.82	18.09	18.23	1532.75	1558.30	2117.76	2031.59	1912.65	1957.20
V-set and immunoglobulin domain containing 10 like	Vsig10l	100754269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V-set and immunoglobulin domain containing 2	Vsig2	100769642	0.06	0.02	0.00	0.00	0.00	0.00	4.56	4.58	1.24	2.32	0.00	0.00
V-set and immunoglobulin domain containing 4	Vsig4	103161311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	1.87
V-set and immunoglobulin domain containing 8	Vsig8	100771377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
visinin-like 1	Vsnl1	100757699	0.28	0.14	0.00	0.00	0.05	0.00	5.32	3.66	0.00	0.00	2.07	0.00
V-set and transmembrane domain containing 2A	Vstm2a	100762170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V-set and transmembrane domain containing 2B	Vstm2b	100771836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V-set and transmembrane domain containing 2 like	Vstm2l	100764618	0.35	0.70	0.10	0.09	0.00	0.00	6.84	11.90	1.24	1.16	0.00	0.00
V-set and transmembrane domain containing 4	Vstm4	100757651	7.00	6.75	7.45	7.50	7.41	7.87	403.32	385.23	422.31	426.48	417.10	450.51
V-set and transmembrane domain containing 5	Vstm5	100752528	3.44	3.46	4.41	4.00	3.85	3.52	221.03	224.18	280.71	271.19	269.10	243.95
visual system homeobox 1	Vsx1	100769470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
visual system homeobox 2	Vsx2	100752028	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.93
vesicle (multivesicular body) trafficking 1	Vta1	100772345	73.73	66.11	59.68	63.99	69.23	67.92	1999.11	1903.27	1656.94	1805.60	1938.53	1858.12
V-set domain containing T cell activation inhibitor 1	Vtcn1	100772241	0.15	0.15	0.24	0.30	0.44	0.36	16.71	17.39	29.81	33.61	30.01	42.99
vesicle transport through interaction with t-SNAREs 1A	Vti1a	100773548	20.28	22.46	24.89	26.76	32.42	30.71	367.62	405.36	453.36	423.01	510.25	480.42
vesicle transport through interaction with t-SNAREs 1B	Vti1b	100760166	40.23	40.39	40.49	41.87	46.10	46.10	1316.28	1322.22	1326.55	1337.39	1474.86	1480.52
vitronectin	Vtn	100767624	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
von Willebrand factor A domain containing 1	Vwa1	100771716	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	1.03	0.00
von Willebrand factor A domain containing 2	Vwa2	100771172	0.48	0.67	0.75	0.62	0.74	1.09	22.03	31.11	40.99	28.97	36.22	51.41
von Willebrand factor A domain containing 3A	Vwa3a	100754479	0.16	0.21	0.41	0.51	0.42	0.43	24.31	27.45	49.68	69.54	62.10	56.08
von Willebrand factor A domain containing 3B	Vwa3b	100771653	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.92	0.00	1.16	0.00	0.00
von Willebrand factor A domain containing 5B1	Vwa5b1	100754305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Willebrand factor A domain containing 5B2	Vwa5b2	100772287	0.39	0.38	0.35	0.33	0.18	0.25	143.55	136.34	140.36	126.32	94.18	106.55
von Willebrand factor A domain containing 7	Vwa7	100770280	0.00	0.01	0.03	0.00	0.00	0.02	0.76	0.92	1.24	0.00	0.00	1.87
von Willebrand factor A domain containing 8	Vwa8	100769573	14.94	14.97	15.27	16.27	16.39	16.47	4072.65	4086.54	4149.81	4403.90	4404.90	4441.55
von Willebrand factor A domain containing 9	Vwa9	100773630	27.93	30.25	26.93	26.31	28.14	26.88	2476.10	2603.27	2368.66	2307.41	2415.66	2362.84
von Willebrand factor C domain containing 2	Vwc2	100753653	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

von Willebrand factor C domain containing protein 2-like	Vwc2l	100751178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
von Willebrand factor C and EGF domains	Vwce	100765310	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	1.16	0.00	0.93
von Willebrand factor D and EGF domains	Vwde	100765678	0.00	0.00	0.00	0.01	0.00	0.00	1.52	0.00	0.00	1.16	1.03	0.00
von Willebrand factor	Vwf	100750531	0.04	0.04	0.02	0.05	0.03	0.06	11.39	13.73	3.73	16.22	8.28	18.69
WW domain containing adaptor with coiled-coil	Wac	100770036	117.44	115.91	105.29	113.53	112.89	109.83	10767.23	10775.43	9783.92	10445.34	10393.33	10090.69
wings apart-like homolog (Drosophila)	Wapal	100752368	27.15	27.33	31.96	35.99	37.76	35.22	3283.49	3334.38	3916.30	4367.97	4550.83	4280.79
tryptophanyl-tRNA synthetase	Wars	100767856	82.17	78.08	93.18	93.83	83.51	94.40	6617.11	6389.68	7671.13	7608.31	6700.50	7598.86
tryptophanyl tRNA synthetase 2, mitochondrial	Wars2	100772881	7.08	6.99	7.62	7.35	5.95	7.26	331.92	332.16	363.93	339.56	281.52	343.96
Wiskott-Aldrich syndrome	Was	100769113	0.02	0.00	0.03	0.07	0.00	0.00	0.76	0.92	1.24	2.32	0.00	0.93
WAS protein family, member 1	Wasf1	100772707	5.94	5.61	6.56	5.83	7.14	6.32	407.11	384.31	460.81	405.62	492.65	439.29
WAS protein family, member 2	Wasf2	100759260	42.63	42.19	39.56	40.05	41.80	45.05	5161.83	5118.70	4852.83	4819.95	4931.71	5341.64
WAS protein family, member 3	Wasf3	100759001	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
WAS protein family homolog 1	Wash1	100755011	35.92	35.35	36.67	30.43	24.64	27.87	2007.46	1993.86	2102.85	1697.82	1380.67	1559.03
Wiskott-Aldrich syndrome-like	Wasl	100757697	15.84	16.17	18.28	19.10	19.72	19.21	1522.88	1555.56	1776.18	1827.62	1878.50	1822.61
WW domain binding protein 1	Wbp1	100762371	8.24	7.30	9.12	9.59	6.66	8.52	357.74	328.50	409.89	407.94	301.18	385.08
WW domain binding protein 11	Wbp11	100754779	44.67	44.89	45.48	41.87	38.89	40.07	3294.12	3328.89	3339.97	3052.59	2859.67	2955.43
WW domain binding protein 1-like	Wbp1l	100758219	9.60	9.42	11.26	10.70	8.14	9.01	865.12	830.85	980.01	949.16	734.84	818.77
WW domain binding protein 2	Wbp2	100753733	52.84	52.33	62.66	55.32	47.50	52.48	2734.34	2726.80	3267.93	2866.01	2483.97	2718.02
WBP2 N-terminal like	Wbp2nl	100764498	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WW domain binding protein 4	Wbp4	100752786	33.67	32.58	37.21	41.36	44.60	41.23	1871.50	1836.47	2091.67	2294.66	2460.16	2272.18
WW domain binding protein 5	Wbp5	103161413	34.00	38.29	36.15	39.36	48.27	44.54	617.51	704.58	678.18	768.36	890.09	858.96
Williams-Beuren syndrome chromosome region 16	Wbscr16	100768632	14.86	13.30	15.83	14.78	12.32	13.07	863.60	787.84	951.44	886.57	712.07	766.43
Williams-Beuren syndrome chromosome region 17	Wbscr17	100750837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Williams Beuren syndrome chromosome region 22	Wbscr22	100755551	57.44	54.10	55.19	51.86	44.57	46.18	2113.04	2061.57	2079.25	1921.49	1640.45	1674.93
Williams Beuren syndrome chromosome region 27	Wbscr27	100768971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Williams-Beuren syndrome chromosome region 28	Wbscr28	100768388	0.13	0.10	0.00	0.00	0.00	0.00	2.28	3.66	0.00	0.00	0.00	0.00
WD repeat and FYVE domain containing 1	Wdfy1	100766268	10.87	10.70	15.86	16.86	17.34	16.78	1345.90	1324.97	1971.19	2075.63	2122.76	2061.88
WD repeat and FYVE domain containing 2	Wdfy2	100758431	7.00	7.07	8.99	9.97	10.42	9.53	1222.86	1242.62	1597.32	1738.38	1842.28	1690.82
WD repeat and FYVE domain containing 3	Wdfy3	100761492	8.82	8.73	9.03	10.03	10.34	10.71	3079.17	3067.19	3210.79	3526.59	3619.35	3704.10
WDFY family member 4	Wdfy4	100757936	0.48	0.40	0.35	0.36	0.36	0.41	147.35	127.19	115.51	110.10	112.81	130.85
WD repeat and HMG-box DNA binding protein 1	Wdhd1	100753715	14.83	15.83	16.60	19.93	22.38	20.91	1790.23	1915.17	2015.91	2381.58	2677.51	2514.26
WD repeat containing planar cell polarity effector	Wdpcp	100769859	1.95	2.08	2.47	2.85	3.31	3.62	165.58	172.94	197.49	235.26	276.34	284.14
WD repeat domain 1	Wdr1	100753279	34.61	32.48	34.56	35.23	36.39	37.28	1833.53	1777.00	1894.18	1936.56	1971.65	2029.17
WD repeat domain 11	Wdr11	100759188	13.96	13.10	13.85	15.70	15.70	15.43	1928.47	1834.64	1936.41	2141.68	2166.23	2140.39

WD repeat domain 12	Wdr12	100765493	72.66	75.05	75.88	79.83	76.06	78.40	4469.89	4726.15	4750.98	4883.69	4651.23	4711.67
WD repeat domain 13	Wdr13	100765056	8.06	8.14	9.90	9.21	9.89	9.78	928.92	975.43	1165.08	1040.71	1107.44	1091.69
WD repeat domain 16	Wdr16	100774540	0.02	0.00	0.00	0.00	0.02	0.00	0.76	0.00	0.00	0.00	1.03	0.00
WD repeat domain 17	Wdr17	100752054	0.03	0.04	0.00	0.01	0.00	0.00	5.32	5.49	0.00	1.16	0.00	0.00
WD repeat domain 18	Wdr18	100753331	29.86	29.70	39.76	28.03	15.41	19.86	1353.50	1356.99	1761.28	1222.66	707.93	893.54
WD repeat domain 19	Wdr19	100758043	9.85	9.93	14.48	16.60	18.15	19.36	748.15	772.29	1071.92	1226.14	1396.20	1475.84
WD repeat domain 20	Wdr20	100772230	12.38	12.69	12.17	13.18	11.37	12.07	594.72	615.82	597.44	623.50	525.77	577.63
WD repeat domain 24	Wdr24	100772059	10.07	9.86	11.89	10.59	9.38	9.22	1067.15	1041.31	1300.46	1139.22	1008.08	995.42
WD repeat domain 25	Wdr25	100768146	4.06	4.09	5.62	4.76	3.62	3.44	309.89	306.54	454.60	421.85	330.16	328.07
WD repeat domain 26	Wdr26	100759638	21.40	20.46	28.63	31.54	37.84	34.87	4004.29	3870.59	5408.05	5916.29	7031.70	6510.91
WD repeat domain 27	Wdr27	100774192	0.57	0.75	0.30	0.34	0.71	0.66	64.56	76.86	32.29	38.24	70.38	66.36
WD repeat domain 3	Wdr3	100772536	76.46	77.57	79.41	91.06	92.80	89.20	3692.12	3738.83	3943.63	4378.40	4457.69	4256.49
WD repeat domain 31	Wdr31	100752912	1.48	1.92	1.68	2.07	2.16	2.21	119.25	148.24	129.18	162.25	164.56	180.39
WD repeat domain 33	Wdr33	100754160	10.07	9.75	8.92	7.67	7.71	7.57	1365.65	1335.95	1214.76	1062.73	1061.90	1046.83
WD repeat domain 34	Wdr34	100762959	18.28	18.06	21.89	16.60	11.40	12.47	928.16	922.35	1124.09	855.28	570.28	626.23
WD repeat domain 35	Wdr35	100751359	9.80	10.09	10.62	12.60	14.72	13.25	1303.37	1341.44	1425.92	1664.21	1940.60	1767.46
WD repeat domain 36	Wdr36	100773715	28.77	29.80	33.43	35.26	34.07	34.21	2197.35	2274.77	2533.86	2616.84	2551.24	2580.62
WD repeat domain 37	Wdr37	100752074	6.76	6.35	5.77	6.03	6.46	6.35	600.80	582.88	553.97	563.24	581.66	585.10
WD repeat domain 38	Wdr38	100752343	0.00	0.04	0.00	0.05	0.00	0.00	0.76	1.83	4.97	9.27	1.03	1.87
WD repeat domain 4	Wdr4	100765725	19.40	17.41	15.66	13.16	9.69	11.70	989.68	943.40	842.13	699.99	514.39	617.82
WD repeat domain 41	Wdr41	100761254	5.92	6.08	5.22	5.36	5.67	5.58	309.13	317.52	268.29	288.57	299.11	286.94
WD repeat domain 43	Wdr43	100760947	100.58	95.72	93.17	101.16	87.86	89.52	9502.60	9232.69	8969.11	9595.86	8353.37	8395.20
WD repeat domain 44	Wdr44	100764342	2.80	2.97	2.97	3.51	4.37	3.64	335.72	355.95	358.96	409.10	506.11	415.93
WD repeat domain 45	Wdr45	100759722	7.45	7.46	10.25	10.89	9.88	11.02	515.73	516.99	705.51	697.67	614.78	692.59
WD repeat domain 45B	Wdr45b	100752879	34.12	35.54	18.71	19.24	18.46	17.76	2189.75	2326.93	1227.18	1243.52	1207.83	1135.62
WD repeat domain 46	Wdr46	100750904	70.68	66.93	84.16	66.84	43.52	52.16	4499.51	4286.93	5354.64	4175.59	2783.08	3296.58
WD repeat domain 47	Wdr47	100766348	7.07	6.97	6.93	7.72	9.10	8.79	981.32	967.19	958.89	1068.52	1250.26	1208.53
WD repeat domain 48	Wdr48	100752446	39.43	41.22	45.11	46.76	42.38	42.59	4455.46	4627.32	5083.86	5211.66	4695.73	4707.00
WD repeat domain 49	Wdr49	100760310	0.00	0.02	0.01	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00
WD repeat domain 5	Wdr5	100768958	45.67	45.12	48.21	49.98	46.49	52.37	2921.19	2913.47	3096.52	3156.90	2997.32	3388.18
WD repeat domain 52	Wdr52	100766957	0.01	0.01	0.01	0.00	0.01	0.01	3.04	0.92	1.24	0.00	1.03	0.93
WD repeat domain 53	Wdr53	100752565	17.92	18.50	16.43	18.35	19.96	21.28	540.03	552.68	503.05	548.17	616.85	631.84
WD repeat domain 54	Wdr54	100763337	0.42	0.47	0.32	0.39	0.08	0.17	19.75	24.71	19.87	18.54	6.21	13.09
WD repeat domain 55	Wdr55	100755022	17.41	17.01	22.64	22.69	16.13	17.45	852.96	840.00	1116.64	1107.93	778.31	857.09
WD repeat domain 59	Wdr59	100771324	8.91	8.80	9.37	9.07	10.19	10.95	1407.43	1406.41	1519.07	1452.13	1596.98	1716.05
WD repeat domain 5B	Wdr5b	100767658	9.02	9.90	10.36	11.28	11.36	11.26	261.28	286.41	319.22	327.97	287.73	323.40
WD repeat domain 6	Wdr6	100765288	17.45	16.85	17.92	16.13	13.70	15.38	1678.58	1627.84	1731.47	1513.55	1213.00	1439.39
WD repeat domain 60	Wdr60	100760627	1.95	2.15	2.17	2.45	3.24	2.70	206.59	236.08	240.96	263.07	349.83	300.96
WD repeat domain 61	Wdr61	100755344	126.57	131.93	131.92	138.27	140.04	137.94	4350.64	4593.47	4517.47	4622.93	4722.64	4588.29
WD repeat domain 62	Wdr62	100771016	2.10	2.16	2.23	2.29	1.76	1.82	306.85	313.86	320.46	347.68	257.71	281.34
WD repeat domain 63	Wdr63	100753679	0.04	0.02	0.00	0.00	0.00	0.00	3.80	0.00	0.00	0.00	0.00	0.93
WD repeat domain 64	Wdr64	100751545	0.01	0.01	0.00	0.00	0.05	0.01	5.32	2.75	4.97	5.79	7.24	4.67
WD repeat domain 65	Wdr65	100769099	0.04	0.08	0.03	0.00	0.03	0.05	6.08	9.15	6.21	4.64	5.17	7.48
WD repeat domain 66	Wdr66	100753594	0.05	0.04	0.08	0.08	0.04	0.07	6.84	4.58	8.69	10.43	5.17	12.15
WD repeat domain 7	Wdr7	100762510	5.15	4.91	5.82	6.79	7.99	7.72	1064.87	1015.69	1202.34	1379.11	1621.82	1587.07

WD repeat domain 70	Wdr70	100772849	16.77	17.70	20.97	22.47	22.36	20.81	1073.23	1157.52	1340.21	1398.82	1370.32	1294.52
WD repeat domain 72	Wdr72	100766058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat domain 73	Wdr73	100771456	21.88	20.95	23.86	22.45	13.62	14.00	1157.54	1146.54	1293.01	1204.12	753.47	753.34
WD repeat domain 74	Wdr74	100754753	68.31	65.60	73.99	65.55	55.73	59.43	2350.77	2315.03	2620.80	2258.73	1966.47	2031.04
WD repeat domain 75	Wdr75	100759292	59.34	61.56	63.03	65.50	68.31	62.95	5108.66	5293.47	5372.03	5523.41	5775.22	5351.92
WD repeat domain 76	Wdr76	100753189	15.74	15.73	16.59	17.55	20.48	20.51	1419.58	1427.45	1506.65	1569.18	1814.33	1854.38
WD repeat domain 77	Wdr77	100774828	94.06	86.65	98.58	97.71	87.85	95.94	2391.79	2214.38	2533.86	2491.68	2262.48	2503.98
WD repeat domain 78	Wdr78	100751860	1.63	2.05	1.70	2.27	2.82	2.27	163.30	194.90	185.07	219.04	246.33	227.12
WD repeat domain 81	Wdr81	100765687	28.91	27.64	31.59	26.13	19.07	20.90	5820.35	5557.91	6409.17	5282.36	3847.04	4228.45
WD repeat domain 82	Wdr82	100770692	58.45	58.79	61.25	60.36	65.26	67.84	5813.51	5818.70	6109.83	6013.64	6450.03	6728.69
WD repeat domain 83	Wdr83	100753627	28.11	25.82	40.73	32.20	26.32	31.76	976.77	875.69	1294.25	1062.73	837.30	1038.42
WD repeat domain 83 opposite strand	Wdr83os	100768419	52.73	48.48	41.74	43.37	38.21	41.70	1238.81	1164.84	1023.48	1012.90	897.33	958.04
WD repeat domain 86	Wdr86	100759512	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat domain 87	Wdr87	100762812	0.02	0.01	0.00	0.00	0.01	0.02	4.56	4.58	0.00	1.16	3.10	4.67
WD repeat domain 88	Wdr88	100768497	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00
WD repeat domain 89	Wdr89	100763001	12.10	12.96	11.84	12.01	13.02	13.08	670.67	716.47	658.31	672.17	722.42	723.43
WD repeat domain 90	Wdr90	100760189	5.49	5.30	6.13	5.81	5.20	5.59	1037.53	1013.86	1197.37	1134.58	1018.43	1097.30
WD repeat domain 91	Wdr91	100764287	7.04	7.01	6.87	5.97	5.05	5.43	897.02	889.41	881.88	763.73	630.31	690.72
WD repeat domain 92	Wdr92	100774000	34.62	38.35	35.00	36.22	36.19	35.63	1490.98	1646.15	1502.93	1537.89	1562.83	1557.16
WD repeat domain 93	Wdr93	100761600	0.37	0.56	0.47	0.61	0.52	0.58	34.94	50.33	47.20	45.20	42.43	45.80
WD repeat domain 96	Wdr96	100774071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat, sterile alpha motif and U-box domain containing 1	Wdsub1	100770336	0.06	0.03	0.00	0.13	0.15	0.23	3.04	2.75	0.00	10.43	10.35	14.95
WD and tetratricopeptide repeats 1	Wdtc1	100768446	27.76	26.59	34.65	31.45	24.33	28.44	3157.40	3053.47	3962.26	3586.86	2824.48	3259.19
WEE1 G2 checkpoint kinase	Wee1	100753258	15.04	15.57	17.40	17.99	19.29	19.75	1118.80	1172.16	1304.19	1346.66	1444.84	1466.50
WEE1 homolog 2 (S. pombe)	Wee2	100750772	0.00	0.00	0.00	0.00	0.02	0.00	1.52	0.92	3.73	0.00	1.03	0.00
WAP four-disulfide core domain 1	Wfdc1	100773269	0.05	0.00	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 10A	Wfdc10a	100767283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 11	Wfdc11	100767575	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 12	Wfdc12	100762925	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 13	Wfdc13	100767859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 2	Wfdc2	100760301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 3	Wfdc3	100768720	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 5	Wfdc5	100762634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 8	Wfdc8	100766414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP four-disulfide core domain 9	Wfdc9	100760594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 1	Wfikkn1	100770624	1.36	1.33	1.18	1.28	0.59	0.95	73.68	72.29	70.80	67.22	31.05	49.54
WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2	Wfikkn2	100766981	0.07	0.00	0.00	0.03	0.02	0.00	2.28	0.00	0.00	1.16	1.03	0.00
Wolfram syndrome 1 (wolframin)	Wfs1	100770775	7.17	6.83	8.56	7.53	6.50	7.03	741.31	718.30	879.40	781.11	667.57	721.57

WAS protein homolog associated with actin, golgi membranes and microtubules	Whamm	100771047	7.00	7.61	6.92	5.94	5.99	6.05	433.70	465.75	414.86	376.65	373.63	373.87
Wolf-Hirschhorn syndrome candidate 1	Whsc1	100763780	59.99	60.66	61.73	68.29	71.66	71.79	9043.07	9318.70	9401.36	10346.84	10907.72	10849.65
Wolf-Hirschhorn syndrome candidate 1-like 1	Whsc1l1	100773097	25.75	29.70	34.67	37.79	41.92	40.25	2338.62	2647.19	3123.85	3422.29	3744.58	3639.60
within bgcn homolog (Drosophila)	Wibg	100770070	24.25	23.00	22.29	17.93	13.90	13.89	1044.37	1012.94	1002.36	781.11	620.99	601.93
WNT inhibitory factor 1	Wif1	100766071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WAS/WASL interacting protein family, member 1	Wipf1	100756222	23.90	24.60	18.84	17.62	16.31	16.49	1924.67	2024.05	1573.72	1497.32	1421.04	1443.13
WAS/WASL interacting protein family, member 2	Wipf2	100771618	17.00	17.23	10.68	10.98	9.80	10.37	1794.79	1819.09	1177.50	1172.83	1050.51	1151.51
WAS/WASL interacting protein family, member 3	Wipf3	100759347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat domain, phosphoinositide interacting 1	Wipi1	100750963	18.75	18.98	20.41	24.20	22.88	22.84	1049.68	1057.78	1135.27	1309.58	1231.63	1253.39
WD repeat domain, phosphoinositide interacting 2	Wipi2	100759282	114.25	110.31	130.33	125.04	108.69	112.69	5713.25	5666.80	6606.66	6287.14	5466.80	5661.29
WNT1 inducible signaling pathway protein 2	Wisp2	100756544	0.78	0.84	1.64	1.43	1.76	1.64	37.22	32.03	68.31	60.26	74.52	71.97
WNT1 inducible signaling pathway protein 3	Wisp3	100756442	0.06	0.04	0.05	0.00	0.00	0.00	2.28	1.83	1.24	1.16	0.00	3.74
widely interspaced zinc finger motifs	Wiz	100771986	18.52	17.77	16.81	12.36	8.07	8.57	3229.56	3142.23	2921.39	2196.15	1532.81	1593.61
wntless Wnt ligand secretion mediator	Wls	100767200	42.25	42.91	52.03	56.11	57.04	56.39	3900.99	4011.51	4845.38	5168.78	5259.80	5195.83
WNK lysine deficient protein kinase 2	Wnk2	100764723	0.02	0.02	0.01	0.01	0.00	0.00	5.32	2.75	2.48	1.16	0.00	0.00
WNK lysine deficient protein kinase 3	Wnk3	100761153	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.16	1.03	0.00
WNK lysine deficient protein kinase 4	Wnk4	100761172	5.13	4.43	3.98	3.63	3.05	3.19	727.64	641.44	541.55	507.61	432.62	452.38
wingless-type MMTV integration site family, member 1	Wnt1	100766046	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 10A	Wnt10a	100770174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 10B	Wnt10b	100766340	0.03	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 11	Wnt11	100774690	0.05	0.04	0.03	0.00	0.02	0.00	2.28	1.83	1.24	1.16	1.03	0.00
wingless-type MMTV integration site family, member 16	Wnt16	100764115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family member 2	Wnt2	100752722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 2B	Wnt2b	100761413	0.02	0.02	0.03	0.00	0.00	0.05	0.76	1.83	3.73	1.16	0.00	2.80
wingless-type MMTV integration site family, member 3A	Wnt3a	100764164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 4	Wnt4	100769003	0.69	0.59	0.43	0.33	0.30	0.42	81.27	70.46	50.93	38.24	38.29	52.34
wingless-type MMTV integration site family, member 5A	Wnt5a	100753089	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 5B	Wnt5b	100753017	0.49	0.60	0.48	0.39	0.37	0.21	28.86	34.77	26.08	20.86	19.66	12.15
wingless-type MMTV integration site family, member 6	Wnt6	100751289	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

wingless-type MMTV integration site family, member 7A	Wnt7a	100772978	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 7B	Wnt7b	100755799	0.04	0.00	0.02	0.00	0.00	0.00	3.04	0.00	1.24	0.00	0.00	0.00
wingless-type MMTV integration site family, member 8A	Wnt8a	100752907	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
wingless-type MMTV integration site family, member 8B	Wnt8b	100775075	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.93
wingless-type MMTV integration site family, member 9A	Wnt9a	100764466	0.25	0.24	0.15	0.09	0.11	0.02	14.43	14.64	8.69	6.95	5.17	1.87
wingless-type MMTV integration site family, member 9B	Wnt9b	100766088	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD repeat containing, antisense to TP53	Wrap53	100757087	3.01	3.36	6.22	6.01	5.28	5.18	141.27	148.24	257.11	256.12	211.14	218.71
WD repeat containing, antisense to TP73	Wrap73	100769815	43.64	38.16	45.67	43.09	34.01	36.12	981.32	866.54	1107.94	966.54	770.03	836.53
tryptophan rich basic protein	Wrb	100754848	15.62	15.27	15.59	16.55	17.45	16.19	1325.40	1314.90	1346.42	1421.99	1499.70	1378.64
Werner syndrome, RecQ helicase-like	Wrn	100753909	6.94	7.08	8.11	9.87	10.59	10.38	1074.75	1115.43	1306.68	1523.98	1640.45	1574.92
Werner helicase interacting protein 1	Wrnip1	100756702	17.71	17.76	19.01	19.76	19.38	19.87	1272.99	1270.07	1378.72	1417.36	1361.01	1413.22
WD repeat and SOCS box containing 1	Wsb1	100760356	21.10	20.44	19.91	22.45	27.93	26.90	1340.59	1330.46	1302.95	1463.72	1826.75	1788.02
WD repeat and SOCS box containing 2	Wsb2	100753469	52.64	51.50	52.02	53.67	52.41	57.68	3364.76	3342.62	3374.75	3468.65	3383.37	3718.12
WSC domain containing 1	Wscd1	100758496	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSC domain containing 2	Wscd2	100760413	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wilms tumor 1	Wt1	100767732	0.48	0.51	0.15	0.12	0.16	0.11	35.70	39.35	11.18	10.43	11.38	6.54
Wilms tumor 1 interacting protein	Wtip	100764082	8.84	8.44	9.83	6.59	4.74	5.37	250.65	232.42	280.71	166.88	124.20	144.87
WW and C2 domain containing 2	Wwc2	100755326	50.86	50.47	50.56	55.13	55.53	55.92	7945.54	7918.70	7917.06	8508.79	8397.88	8570.92
WWC family member 3	Wwc3	100764186	20.05	20.47	25.94	27.04	26.76	26.85	3468.06	3535.69	4516.23	4678.56	4612.93	4673.35
WW domain containing oxidoreductase	Wwox	100756740	9.51	10.59	12.39	12.72	13.12	13.66	639.53	720.13	837.17	852.97	864.21	880.46
WW domain containing E3 ubiquitin protein ligase 1	Wwp1	100757929	3.02	3.39	3.15	3.78	3.85	3.98	405.59	444.71	411.13	484.43	496.79	529.02
WW domain containing E3 ubiquitin protein ligase 2	Wwp2	100761484	11.29	12.14	14.44	14.57	13.05	13.89	976.01	1027.58	1249.54	1214.55	1054.65	1164.60
WW domain containing transcription regulator 1	Wwtr1	100758012	12.56	13.20	13.34	13.64	13.41	12.46	1560.85	1647.06	1678.06	1693.18	1667.36	1556.23
XPA binding protein 2	Xab2	100767687	32.72	32.74	31.65	27.56	19.41	22.62	2607.50	2665.49	2599.69	2223.97	1587.67	1823.54
XIAP associated factor 1	Xaf1	100754608	0.79	0.47	0.26	0.55	0.50	0.56	56.97	32.03	19.87	38.24	32.08	33.65
X-box binding protein 1	Xbp1	100689062	18.94	19.30	19.42	19.91	19.43	17.44	711.69	740.26	752.70	791.54	759.68	705.68
chemokine (C motif) ligand 1	Xcl1	100766107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
chemokine (C motif) receptor 1	Xcr1	100761002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xanthine dehydrogenase	Xdh	100766626	3.71	3.44	3.54	3.88	4.14	4.32	531.68	512.42	520.43	552.80	589.94	620.62
X-linked inhibitor of apoptosis	Xiap	100689374	6.48	6.72	7.51	7.84	8.31	8.29	266.60	274.51	290.65	314.07	338.44	317.79
xin actin-binding repeat containing 1	Xirp1	100756551	0.00	0.01	0.00	0.01	0.00	0.01	0.00	1.83	0.00	1.16	0.00	0.93
xin actin-binding repeat containing 2	Xirp2	100755593	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
X-linked Kx blood group (McLeod syndrome)	Xk	100762544	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
XK, Kell blood group complex subunit-related family, member 4	Xkr4	100757142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

XK, Kell blood group complex subunit-related family, member 5	Xkr5	100755956	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.03	0.00
XK, Kell blood group complex subunit-related family, member 6	Xkr6	100754658	0.24	0.28	0.42	0.53	0.44	0.42	22.79	24.71	40.99	47.52	40.36	39.26
XK, Kell blood group complex subunit-related family, member 7	Xkr7	100773887	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
XK, Kell blood group complex subunit-related family, member 8	Xkr8	100763746	1.45	1.53	1.45	1.43	1.79	1.80	177.73	189.41	182.59	178.47	216.31	221.52
XK, Kell blood group complex subunit-related family, member 9	Xkr9	100774892	0.20	0.10	0.18	0.17	0.18	0.17	18.99	10.07	17.39	17.38	17.59	15.89
XK, Kell blood group complex subunit-related, X-linked	Xkrx	100770991	0.27	0.34	0.41	0.35	0.30	0.62	18.23	23.79	27.33	24.34	18.63	39.26
xeroderma pigmentosum, complementation group A	Xpa	100689196	14.30	13.71	17.36	18.33	18.73	17.48	463.32	488.63	545.28	607.27	609.61	567.34
xeroderma pigmentosum, complementation group C	Xpc	100764712	13.45	13.83	12.93	14.03	12.66	13.61	1430.21	1464.05	1378.72	1490.37	1358.94	1455.28
X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	Xpnpep 1	100774913	71.95	72.96	82.24	81.92	71.18	74.56	4375.71	4507.46	4855.32	4906.87	4116.14	4407.90
X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound	Xpnpep 2	100774553	4.86	4.84	0.63	0.89	0.31	0.33	458.76	472.16	65.83	93.87	30.01	32.71
X-prolyl aminopeptidase (aminopeptidase P) 3, putative	Xpnpep 3	100763709	3.23	3.38	3.93	4.38	3.97	4.11	315.97	303.79	386.29	431.12	400.54	393.50
exportin 1	Xpo1	100770879	79.26	82.53	86.07	100.10	108.16	94.41	8171.88	8464.98	8870.98	10204.29	11008.11	9633.64
exportin 4	Xpo4	100760974	14.76	15.19	14.33	17.52	16.65	15.48	3419.45	3517.39	3361.09	4039.99	3829.45	3598.48
exportin 5	Xpo5	100755295	66.01	63.97	66.27	69.89	65.20	69.17	7937.94	7853.73	8139.40	8468.23	8007.69	8251.26
exportin 6	Xpo6	100750358	105.48	96.91	98.83	99.75	92.18	100.13	6194.80	5834.25	5860.17	5840.96	5255.66	5777.19
exportin 7	Xpo7	100750532	33.49	32.99	34.54	39.45	41.01	43.21	4742.56	4728.89	4949.72	5575.56	5824.90	6134.24
exportin, tRNA	Xpot	100755659	134.06	129.97	137.88	146.47	151.10	152.19	16291.36	16154.92	17200.42	17989.91	18503.49	18402.71
xenotropic and polytropic retrovirus receptor 1	Xpr1	100689082	14.27	15.39	13.62	15.98	19.29	17.79	919.04	993.73	919.14	1024.49	1224.39	1158.06
X-ray repair complementing defective repair in Chinese hamster cells 1	Xrcc1	100689414	15.91	15.77	16.42	14.80	11.91	12.86	914.49	927.84	1032.17	888.89	720.35	783.25
X-ray repair complementing defective repair in Chinese hamster cells 2	Xrcc2	100750706	4.82	5.35	6.85	7.06	7.02	7.99	372.17	409.02	515.47	537.74	526.81	615.01
X-ray repair complementing defective repair in Chinese hamster cells 3	Xrcc3	103161145	8.14	7.50	5.42	5.98	5.31	5.73	833.21	755.82	575.09	615.39	518.53	598.19
X-ray repair complementing defective repair in Chinese hamster cells 4	Xrcc4	100768249	12.74	11.68	11.91	13.45	14.14	13.37	367.62	344.05	334.12	375.49	411.92	368.26
X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)	Xrcc5	100689306	18.73	18.94	19.93	22.47	22.61	22.37	1334.51	1370.72	1465.66	1561.07	1602.16	1564.64
X-ray repair complementing defective repair in Chinese hamster cells 6	Xrcc6	100770214	33.94	33.54	48.52	48.43	51.53	51.56	2067.47	2058.83	2984.73	2951.77	3134.97	3100.30
XRCC6 binding protein 1	Xrcc6bp 1	100767547	8.04	7.98	4.48	5.17	5.75	5.35	306.09	305.62	173.89	201.65	221.49	204.69
5'-3' exoribonuclease 1	Xrn1	100760243	8.28	8.72	4.82	5.86	6.41	5.66	1433.25	1556.47	858.28	1018.69	1106.40	993.55
5'-3' exoribonuclease 2	Xrn2	100770311	65.08	67.73	66.66	71.58	72.89	69.75	7062.20	7563.67	7369.30	7841.25	7948.69	7659.62
X-ray radiation resistance associated 1	Xrra1	100757252	0.89	0.63	0.54	0.14	0.72	0.87	22.79	14.64	16.15	9.27	13.45	12.15
xyloside xylosyltransferase 1	Xxylt1	100760146	44.74	46.87	70.69	71.96	65.49	71.60	1973.28	2058.83	3112.67	3109.38	2840.00	3118.99
xylulokinase homolog (H. influenzae)	Xylb	100750577	6.90	6.63	8.58	8.14	7.68	7.54	485.35	496.86	639.67	588.73	564.07	549.59
xylosyltransferase I	Xylt1	100756878	0.00	0.00	0.00	0.00	0.96	1.24	0.00	0.00	0.00	0.00	258.75	251.43

xylosyltransferase II	Xylt2	100759604	9.47	10.17	1.58	1.25	1.03	1.28	916.00	981.83	168.92	125.16	109.71	134.59
Yae1 domain containing 1	Yae1d1	100769054	15.18	15.61	13.89	15.70	16.13	14.53	564.34	570.98	516.71	572.51	586.84	524.35
YY1 associated factor 2	Yaf2	103161599	0.00	0.07	0.00	0.00	0.00	0.15	0.00	0.92	1.24	3.48	0.00	0.00
Yes-associated protein 1	Yap1	100761993	33.85	34.84	32.40	34.83	29.78	31.56	1543.38	1631.50	1507.89	1639.87	1435.53	1450.61
tyrosyl-tRNA synthetase	Yars	100751260	84.37	82.06	90.41	95.27	90.03	91.97	6497.10	6328.37	6966.87	7266.43	6860.92	7011.89
tyrosyl-tRNA synthetase 2, mitochondrial	Yars2	100751113	24.52	22.58	23.83	23.36	25.56	26.01	916.00	872.03	939.02	878.46	990.48	1037.48
ybeY metallopeptidase (putative)	Ybey	100752720	9.63	9.30	13.44	16.22	14.35	14.60	379.77	354.12	519.19	575.98	486.44	514.07
Y box binding protein 1	Ybx1	100769813	1592.37	1639.45	1510.84	1499.78	1300.10	1330.72	47774.26	49747.63	46286.37	45193.24	40775.36	41763.85
Y box binding protein 2	Ybx2	100761419	0.03	0.00	0.00	0.00	0.00	0.00	15.95	7.32	14.91	18.54	14.49	11.22
Y box binding protein 3	Ybx3	100774412	213.20	216.03	240.08	191.67	169.04	159.12	9820.84	9897.92	10906.76	8330.32	7045.15	6868.89
YdjC homolog (bacterial)	Ydjc	100755175	0.02	0.06	0.00	0.00	0.00	0.00	1.52	1.83	0.00	0.00	0.00	0.93
YEATS domain containing 2	Yeats2	100759076	24.10	24.22	24.34	23.99	24.40	24.20	4259.50	4279.61	4302.59	4224.26	4271.39	4244.34
YEATS domain containing 4	Yeats4	100762118	103.00	101.92	98.31	107.21	92.72	91.92	543.07	572.81	556.45	602.64	551.65	501.92
v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	Yes1	100754562	8.81	8.64	8.52	9.81	10.44	9.31	636.49	624.97	629.74	694.19	749.33	658.94
Yip1 interacting factor homolog A (S. cerevisiae)	Yif1a	100763610	67.42	59.07	72.84	62.41	50.28	58.30	1998.35	1749.54	2153.78	1812.55	1504.87	1724.47
Yip1 interacting factor homolog B (S. cerevisiae)	Yif1b	100763966	15.53	14.63	15.70	8.74	5.69	8.05	403.32	398.04	418.58	221.35	145.93	197.22
Yip1 domain family, member 1	Yipf1	100765481	23.34	23.55	29.46	31.97	31.05	31.63	974.49	979.09	1213.52	1243.52	1197.48	1210.40
Yip1 domain family, member 2	Yipf2	100756626	33.19	31.53	34.95	26.66	24.79	25.69	878.79	825.36	934.05	756.77	710.00	708.48
Yip1 domain family, member 3	Yipf3	100755010	38.73	35.75	41.81	36.46	27.75	31.63	1529.71	1449.41	1673.09	1452.13	1128.14	1289.84
Yip1 domain family, member 4	Yipf4	100765339	49.83	50.01	53.23	55.46	65.25	64.76	2662.94	2682.88	2840.65	2934.39	3379.23	3357.33
Yip1 domain family, member 5	Yipf5	100755594	24.73	24.45	24.52	25.45	28.11	28.26	1113.48	1098.96	1079.37	1128.79	1222.32	1237.50
Yip1 domain family, member 6	Yipf6	100760351	5.06	5.06	4.63	5.39	6.76	6.21	764.86	770.46	707.99	810.08	1003.94	931.87
Yip1 domain family, member 7	Yipf7	100752198	0.17	0.05	0.00	0.00	0.06	0.16	3.80	1.83	0.00	0.00	1.03	2.80
YKT6 v-SNARE homolog (S. cerevisiae)	Ykt6	100763402	61.40	60.70	64.00	67.72	69.05	71.19	4308.11	4275.04	4514.99	4722.60	4786.81	4960.29
YLP motif containing 1	Ylpm1	100772484	5.98	6.33	7.04	7.68	8.02	7.26	1003.35	1057.78	1222.21	1287.56	1291.66	1213.20
YME1-like 1 ATPase	Yme1l1	100770453	39.60	38.20	38.22	44.11	47.07	44.25	4401.53	4307.06	4285.20	4894.12	5262.91	4864.96
YOD1 deubiquitinase	Yod1	100773294	1.94	1.85	1.75	2.05	2.67	2.38	336.48	323.92	310.52	358.11	465.74	423.41
yippee-like 1 (Drosophila)	Ypel1	100759808	1.02	0.87	0.96	0.90	1.18	1.06	95.70	75.95	88.19	85.76	107.64	102.81
yippee-like 2 (Drosophila)	Ypel2	100756059	1.33	1.39	0.82	0.80	0.80	0.85	142.03	147.32	85.70	84.60	86.94	93.47
yippee-like 3 (Drosophila)	Ypel3	100770652	6.28	5.92	9.93	7.07	6.32	7.45	200.52	197.65	296.86	219.04	191.47	227.12
yippee-like 4 (Drosophila)	Ypel4	100756162	0.29	0.49	0.27	0.19	0.20	0.18	14.43	20.13	12.42	9.27	7.24	7.48
yippee-like 5 (Drosophila)	Ypel5	100754468	17.72	19.53	20.38	22.11	22.32	23.00	531.68	584.71	618.56	646.68	655.15	688.85
yrdC N(6)-threonylcarbamoyltransferase domain containing	Yrdc	100752427	42.92	41.11	34.33	37.12	34.54	36.14	1245.64	1185.88	1032.17	1054.62	991.52	1074.87
YTH domain containing 1	Ythdc1	100764889	34.14	34.12	30.61	33.80	35.35	34.14	3390.58	3388.37	3000.88	3306.40	3487.90	3379.77
YTH domain containing 2	Ythdc2	100772467	1.13	1.14	1.34	1.60	1.81	1.86	410.91	418.17	474.48	578.30	663.43	670.16
YTH domain family, member 1	Ythdf1	100766305	54.31	56.44	50.19	49.93	55.16	55.74	4521.54	4727.06	4218.13	4180.22	4590.16	4660.26
YTH domain family, member 2	Ythdf2	100763174	26.38	27.01	28.38	28.94	27.24	26.32	1892.77	1953.60	2045.72	2088.37	1975.79	1895.51
YTH domain family, member 3	Ythdf3	100751287	8.01	8.45	7.33	8.33	8.61	7.86	976.01	1040.39	910.45	1021.01	1058.79	973.93

tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta	Ywhab	100757122	159.68	160.00	118.95	120.76	158.64	147.40	11672.60	11747.20	8851.11	8905.14	11613.58	10907.60
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma	Ywhag	100764051	17.94	17.88	20.85	14.87	10.40	11.00	202.80	192.16	262.08	181.95	112.81	120.57
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta	Ywhah	100771398	128.29	124.54	145.76	145.49	153.04	152.13	5344.12	5228.50	6102.37	6061.15	6338.26	6336.13
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta	Ywhaq	100751694	213.75	216.90	193.22	194.88	214.05	217.62	9954.52	10249.29	9227.46	9214.57	9992.79	10260.80
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta	Ywhaz	100766119	112.46	118.58	134.93	139.23	132.19	135.66	4654.46	5079.35	5857.68	6033.34	5776.26	5977.21
YY1 transcription factor	Yy1	100767279	61.07	64.69	61.51	63.39	65.07	65.72	2761.68	2864.97	2762.40	2806.90	2893.82	2962.90
zinc binding alcohol dehydrogenase domain containing 2	Zadh2	100762407	12.51	12.59	16.76	19.33	21.03	20.79	966.89	974.51	1307.92	1477.62	1606.30	1608.57
zonadhesin	Zan	100756574	0.02	0.01	0.00	0.00	0.00	0.00	9.11	5.49	1.24	1.16	1.03	0.93
zeta-chain (TCR) associated protein kinase 70kDa	Zap70	100767740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zygote arrest 1	Zar1	100754345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zygote arrest 1-like	Zar1l	100760886	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00
zinc finger, B-box domain containing	Zbbx	100760603	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, BED-type containing 2	Zbed2	103160661	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger, BED-type containing 4	Zbed4	100770580	1.71	1.63	1.20	1.42	1.56	1.59	252.93	239.74	178.86	208.61	232.87	238.34
zinc finger, BED-type containing 6	Zbed6	100764275	10.97	10.80	8.35	10.40	12.13	10.65	1898.09	1866.67	1499.20	1804.44	2077.22	1859.99
Z-DNA binding protein 1	Zbp1	100762516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger and BTB domain containing 1	Zbtb1	100764453	23.82	23.11	26.59	31.22	34.65	32.04	1837.33	1757.78	2090.43	2463.86	2718.91	2559.13
zinc finger and BTB domain containing 10	Zbtb10	100752837	6.17	5.74	6.45	7.27	6.38	5.79	540.79	516.99	578.81	653.63	587.87	534.63
zinc finger and BTB domain containing 11	Zbtb11	100758669	7.74	7.35	7.37	8.87	8.94	8.61	1526.67	1449.41	1501.68	1794.01	1750.16	1682.41
zinc finger and BTB domain containing 14	Zbtb14	100752751	10.12	10.70	11.31	11.58	10.58	11.12	956.26	1002.88	1073.16	1087.07	987.38	1046.83
zinc finger and BTB domain containing 16	Zbtb16	100769421	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger and BTB domain containing 17	Zbtb17	100754046	8.98	8.87	9.87	7.33	4.91	5.79	866.63	840.92	956.41	694.19	451.25	538.37
zinc finger and BTB domain containing 18	Zbtb18	100751760	6.34	6.06	5.69	5.53	5.21	5.48	1030.69	1000.13	953.92	924.82	864.21	929.06
zinc finger and BTB domain containing 2	Zbtb2	100767625	10.05	9.86	10.56	12.29	9.18	9.34	880.31	862.88	930.32	1078.95	800.04	815.03
zinc finger and BTB domain containing 20	Zbtb20	100769361	0.98	0.81	0.87	1.05	1.21	1.31	243.81	210.46	248.42	273.51	331.20	358.91
zinc finger and BTB domain containing 21	Zbtb21	100761452	12.96	13.22	13.43	12.70	11.89	11.95	2330.27	2380.92	2465.54	2385.06	2295.60	2319.85

zinc finger and BTB domain containing 24	Zbtb24	100771843	4.77	4.89	5.22	5.24	5.28	5.19	322.04	327.58	347.78	344.20	351.90	344.89
zinc finger and BTB domain containing 25	Zbtb25	100764151	22.92	22.04	23.95	27.69	31.12	28.60	1080.82	1079.74	1206.07	1382.59	1548.34	1417.89
zinc finger and BTB domain containing 26	Zbtb26	100769488	5.13	4.93	4.66	4.77	6.04	4.06	241.53	251.63	234.75	231.78	279.45	197.22
zinc finger and BTB domain containing 3	Zbtb3	100754364	3.28	3.65	5.00	4.61	3.81	3.98	263.56	272.68	391.26	352.31	269.10	300.03
zinc finger and BTB domain containing 32	Zbtb32	103161446	2.32	2.28	0.04	0.08	0.07	0.03	170.14	156.47	3.73	5.79	5.17	2.80
zinc finger and BTB domain containing 33	Zbtb33	100763419	6.47	6.22	6.84	7.63	7.92	7.84	660.04	631.37	714.20	786.91	806.25	812.23
zinc finger and BTB domain containing 37	Zbtb37	100774939	1.48	1.38	1.18	1.61	1.49	1.40	193.68	212.29	187.56	249.17	259.78	246.75
zinc finger and BTB domain containing 38	Zbtb38	100765090	6.41	6.46	2.95	3.48	4.24	3.99	1301.85	1310.33	591.23	710.42	851.79	825.31
zinc finger and BTB domain containing 39	Zbtb39	100752450	4.86	4.40	5.40	5.64	4.55	5.35	526.36	482.22	596.20	608.43	491.62	584.17
zinc finger and BTB domain containing 4	Zbtb4	100764024	8.77	9.42	10.69	9.20	8.73	8.77	1423.38	1522.62	1750.10	1501.96	1409.65	1442.20
zinc finger and BTB domain containing 40	Zbtb40	100765922	6.41	6.05	6.64	5.56	5.66	5.85	1616.30	1530.85	1686.75	1402.29	1422.07	1478.65
zinc finger and BTB domain containing 41	Zbtb41	100764861	4.96	5.11	5.12	5.87	6.72	6.40	1042.85	1088.89	1088.07	1259.75	1421.04	1359.94
zinc finger and BTB domain containing 42	Zbtb42	100752108	2.61	2.56	1.92	2.32	1.51	1.64	279.51	269.93	206.19	248.01	159.39	174.78
zinc finger and BTB domain containing 43	Zbtb43	100757683	68.72	69.32	112.26	114.22	93.48	94.87	2955.37	2968.37	4829.23	4890.64	3990.91	4106.00
zinc finger and BTB domain containing 44	Zbtb44	100754935	12.90	12.27	14.30	17.08	18.19	18.10	1808.46	1795.30	1982.37	2339.86	2723.05	2483.42
zinc finger and BTB domain containing 45	Zbtb45	103163654	2.78	3.66	2.45	2.86	2.60	1.92	57.72	70.46	49.68	52.15	48.64	36.45
zinc finger and BTB domain containing 46	Zbtb46	100762624	0.03	0.02	0.03	0.00	0.00	0.00	1.52	1.83	2.48	0.00	0.00	0.93
zinc finger and BTB domain containing 47	Zbtb47	100767262	4.25	3.96	6.06	3.81	2.37	2.59	486.11	464.84	706.75	434.59	273.24	308.44
zinc finger and BTB domain containing 48	Zbtb48	100759359	6.03	5.46	6.65	5.05	3.56	4.71	512.69	473.99	552.73	405.62	276.34	373.87
zinc finger and BTB domain containing 49	Zbtb49	100773082	6.81	5.91	5.43	5.29	4.99	5.17	619.78	545.36	501.80	497.18	444.01	474.81
zinc finger and BTB domain containing 5	Zbtb5	100750989	2.14	2.42	2.65	2.48	2.47	2.33	235.46	266.27	289.41	270.03	256.68	280.40
zinc finger and BTB domain containing 6	Zbtb6	100769203	11.39	13.14	11.61	13.26	15.00	13.64	623.58	711.90	634.71	725.48	825.92	769.23
zinc finger and BTB domain containing 7A	Zbtb7a	100773908	3.91	4.19	2.97	1.95	1.05	1.19	296.98	311.11	250.90	155.30	89.01	97.21
zinc finger and BTB domain containing 7B	Zbtb7b	100758360	14.16	13.62	17.60	13.60	8.21	9.89	683.59	667.06	862.01	681.44	412.96	508.46
zinc finger and BTB domain containing 7C	Zbtb7c	100774380	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger and BTB domain containing 8A	Zbtb8a	100751842	2.24	2.59	2.45	2.59	2.51	2.93	137.48	158.30	149.05	157.61	150.07	178.52
zinc finger and BTB domain containing 8B	Zbtb8b	100758452	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00

zinc finger and BTB domain containing 8 opposite strand	Zbtb8os	100758163	46.26	38.62	34.10	40.56	43.19	43.65	852.20	732.94	632.22	749.82	796.94	796.34
zinc finger and BTB domain containing 9	Zbtb9	100773744	4.60	4.43	3.46	3.11	2.63	2.80	353.95	341.31	275.74	244.53	229.77	234.60
zinc finger, C2HC-type containing 1A	Zc2hc1a	100756742	3.71	3.90	4.48	5.44	6.29	5.94	381.29	396.21	471.99	559.76	646.87	613.14
zinc finger, C2HC-type containing 1B	Zc2hc1b	100758450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, C2HC-type containing 1C	Zc2hc1c	100755671	2.53	2.86	2.69	2.16	1.70	1.92	182.29	202.22	181.34	151.82	120.06	134.59
zinc finger CCCH-type containing 10	Zc3h10	100752630	10.06	10.17	12.02	10.66	8.05	9.14	603.07	608.50	729.10	632.77	487.48	556.13
zinc finger CCCH-type containing 11A	Zc3h11a	100763978	35.69	34.60	31.97	36.88	40.66	38.88	5275.76	5230.33	4878.92	5645.10	6132.29	5908.98
zinc finger CCCH-type containing 12A	Zc3h12a	100754512	3.67	3.41	3.16	2.84	2.12	2.49	322.04	294.64	276.99	244.53	191.47	218.71
zinc finger CCCH-type containing 12B	Zc3h12b	100774530	0.03	0.03	0.03	0.01	0.01	0.03	3.04	2.75	2.48	3.48	1.03	3.74
zinc finger CCCH-type containing 12C	Zc3h12c	100753033	5.94	5.75	5.62	5.58	5.48	5.35	598.52	593.86	582.54	585.25	558.89	569.21
zinc finger CCCH-type containing 12D	Zc3h12d	100759590	0.03	0.05	0.10	0.02	0.02	0.02	1.52	2.75	4.97	1.16	2.07	0.93
zinc finger CCCH-type containing 13	Zc3h13	100753716	17.03	15.85	16.58	17.68	15.92	15.45	2990.31	2825.62	2967.35	3167.33	2849.32	2741.39
zinc finger CCCH-type containing 14	Zc3h14	100771191	35.76	35.31	38.86	43.87	43.71	41.02	3808.33	3754.38	4184.59	4593.96	4606.72	4304.15
zinc finger CCCH-type containing 15	Zc3h15	100753210	132.36	134.58	119.52	125.23	130.82	121.87	6395.32	6584.58	5834.08	6155.02	6355.85	5860.38
zinc finger CCCH-type containing 18	Zc3h18	100767415	45.06	44.75	42.01	37.04	31.37	32.55	5151.95	5202.88	4887.61	4230.06	3616.24	3693.81
zinc finger CCCH-type containing 3	Zc3h3	100756959	14.91	14.48	16.20	14.56	12.71	12.43	1699.85	1624.18	1843.26	1645.67	1379.64	1414.16
zinc finger CCCH-type containing 4	Zc3h4	100767693	8.65	8.19	7.64	6.51	5.26	5.53	1303.37	1233.47	1157.62	970.02	783.48	837.46
zinc finger CCCH-type containing 6	Zc3h6	100755342	2.68	2.85	3.93	4.76	4.60	4.80	355.46	373.33	527.89	637.41	615.82	645.86
zinc finger CCCH-type containing 7A	Zc3h7a	100770208	32.55	31.87	28.52	33.08	35.42	32.94	3707.31	3719.61	3300.22	3781.56	4047.83	3724.66
zinc finger CCCH-type containing 7B	Zc3h7b	100761396	27.67	27.16	31.11	28.94	25.21	27.78	4031.63	4057.26	4677.70	4366.81	3792.19	4131.24
zinc finger CCCH-type containing 8	Zc3h8	100770320	31.68	30.57	20.11	23.34	21.34	20.37	1443.88	1374.38	931.57	1038.39	964.61	907.56
zinc finger CCCH-type, antiviral 1	Zc3hav1	100769484	36.44	36.91	40.94	41.22	40.27	38.82	6187.97	6260.66	7196.65	7282.65	7068.96	6892.25
zinc finger CCCH-type, antiviral 1-like	Zc3hav1l	103163336	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	1.24	2.32	0.00	0.00
zinc finger, C3HC-type containing 1	Zc3hc1	100755531	48.31	45.03	52.25	50.52	44.69	49.26	2535.34	2374.51	2782.27	2664.36	2403.24	2583.43
zinc finger, C4H2 domain containing	Zc4h2	100756582	8.56	9.66	6.07	6.76	8.84	9.48	521.80	588.37	370.14	409.10	540.26	573.89
zinc finger, CCHC domain containing 10	Zcchc10	103159796	27.67	29.88	25.37	17.58	31.87	18.39	123.80	137.26	120.48	92.71	139.72	90.66
zinc finger, CCHC domain containing 11	Zcchc11	100755521	10.80	10.32	11.15	12.59	12.93	12.86	1858.59	1825.49	1984.85	2177.61	2231.43	2214.23
zinc finger, CCHC domain containing 12	Zcchc12	100771090	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger, CCHC domain containing 13	Zcchc13	100761284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, CCHC domain containing 14	Zcchc14	100769526	14.07	13.64	12.41	11.61	11.53	11.60	2764.72	2716.73	2476.72	2339.86	2321.47	2334.80

zinc finger, CCHC domain containing 16	Zcchc16	100753425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
zinc finger, CCHC domain containing 17	Zcchc17	100764924	40.97	40.73	41.58	43.77	42.23	45.15	1680.10	1717.52	1750.10	1782.42	1796.74	1843.17
zinc finger, CCHC domain containing 18	Zcchc18	100755888	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
zinc finger, CCHC domain containing 2	Zcchc2	100752516	7.46	7.72	7.37	8.58	7.98	7.88	1184.88	1227.06	1176.26	1365.21	1267.86	1264.61
zinc finger, CCHC domain containing 24	Zcchc24	100754690	6.82	7.28	7.08	6.93	7.82	8.08	832.45	893.99	862.01	851.81	947.01	980.47
zinc finger, CCHC domain containing 3	Zcchc3	100751149	8.93	9.22	9.97	10.56	7.95	9.32	549.91	561.83	609.86	636.25	476.09	565.48
zinc finger, CCHC domain containing 4	Zcchc4	100768868	11.56	10.89	10.69	12.62	12.90	11.36	811.19	753.99	731.59	888.89	926.31	817.84
zinc finger, CCHC domain containing 5	Zcchc5	100752667	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, CCHC domain containing 6	Zcchc6	100767495	23.34	23.08	25.73	29.09	30.05	27.95	3923.78	3912.68	4385.81	4906.87	5049.70	4722.89
zinc finger, CCHC domain containing 7	Zcchc7	100750694	2.42	2.00	1.92	2.95	2.65	2.66	170.90	139.09	144.08	190.06	190.44	186.00
zinc finger, CCHC domain containing 8	Zcchc8	100770227	11.12	12.07	11.99	11.62	10.22	9.98	960.06	1044.97	1075.65	1010.58	922.17	902.89
zinc finger, CCHC domain containing 9	Zcchc9	100752466	41.48	42.78	39.33	43.84	46.95	42.22	1356.54	1412.81	1283.08	1440.54	1501.77	1390.79
zinc finger CCHC-type and RNA binding motif 1	Zcrb1	100769243	52.35	54.56	52.01	52.59	60.32	58.65	1168.17	1257.26	1178.74	1126.47	1317.54	1262.74
zinc finger, CW type with PWWP domain 1	Zcwpw1	100754258	1.16	1.02	0.82	0.88	1.00	0.98	112.41	105.23	94.40	103.14	109.71	99.07
zinc finger, CW type with PWWP domain 2	Zcwpw2	100753274	0.35	0.29	0.39	0.40	0.61	0.67	26.58	19.22	22.36	22.02	30.01	36.45
zinc finger, DBF-type containing 2	Zdbf2	100756829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
zinc finger, DHHC-type containing 1	Zdhhc1	100762062	3.49	3.14	3.37	3.16	2.22	2.22	226.34	204.05	247.18	215.56	176.98	171.98
zinc finger, DHHC-type containing 11B	Zdhhc11b	100762396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, DHHC-type containing 12	Zdhhc12	100769641	0.10	0.06	0.05	0.00	0.04	0.12	0.76	0.92	0.00	1.16	1.03	2.80
zinc finger, DHHC-type containing 13	Zdhhc13	100762324	17.72	17.58	15.45	17.52	18.73	18.28	1208.43	1237.13	1096.76	1209.91	1286.49	1235.63
zinc finger, DHHC-type containing 14	Zdhhc14	100773605	0.39	0.31	0.60	0.48	0.48	0.49	36.46	28.37	54.65	44.04	46.57	46.73
zinc finger, DHHC-type containing 15	Zdhhc15	100766131	5.19	5.78	5.84	6.79	8.06	7.64	808.91	894.90	900.51	1055.78	1238.88	1181.42
zinc finger, DHHC-type containing 16	Zdhhc16	100757953	13.49	13.31	12.84	14.95	14.90	15.71	802.07	789.67	799.90	887.73	906.65	947.76
zinc finger, DHHC-type containing 17	Zdhhc17	100764376	6.05	6.70	6.87	6.92	7.68	6.88	831.70	947.06	939.02	952.63	1032.92	945.89
zinc finger, DHHC-type containing 18	Zdhhc18	100771709	11.42	10.83	12.05	11.24	8.88	9.86	844.61	807.97	905.48	848.33	670.67	758.95
zinc finger, DHHC-type containing 19	Zdhhc19	100762178	2.41	2.36	1.38	0.69	0.52	0.79	107.10	105.23	64.59	35.93	25.87	41.13
zinc finger, DHHC-type containing 2	Zdhhc2	100751995	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger, DHHC-type containing 20	Zdhhc20	100763295	19.47	20.18	20.98	21.83	25.47	24.55	2587.75	2649.94	2797.18	2877.60	3371.99	3292.84

zinc finger, DHHC-type containing 21	Zdhhc21	100763097	5.64	6.04	6.40	7.59	8.89	8.61	628.14	667.97	700.54	840.22	965.64	954.30
zinc finger, DHHC-type containing 22	Zdhhc22	100761833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, DHHC-type containing 23	Zdhhc23	100768598	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.92	0.00	0.00	1.03	0.00
zinc finger, DHHC-type containing 24	Zdhhc24	100760813	17.82	17.74	17.91	17.41	17.48	18.69	1915.56	1910.59	1946.35	1873.97	1872.29	2018.89
zinc finger, DHHC-type containing 3	Zdhhc3	100760307	45.04	46.16	51.08	49.43	46.99	50.15	3111.83	3206.28	3566.03	3407.22	3193.97	3408.74
zinc finger, DHHC-type containing 4	Zdhhc4	100757078	17.69	18.15	17.63	17.12	21.13	20.55	684.34	710.07	693.08	659.43	805.22	802.88
zinc finger, DHHC-type containing 5	Zdhhc5	100755578	24.82	25.62	27.67	28.19	28.00	28.37	3415.65	3546.67	3869.10	3905.56	3889.48	3934.02
zinc finger, DHHC-type containing 6	Zdhhc6	100772972	50.25	51.60	51.58	56.55	63.12	61.19	3104.24	3218.17	3262.96	3488.35	3862.57	3709.70
zinc finger, DHHC-type containing 7	Zdhhc7	100771824	21.25	20.40	20.89	21.35	18.99	20.72	1556.30	1480.52	1524.04	1542.52	1370.32	1524.45
zinc finger, DHHC-type containing 8	Zdhhc8	100771194	9.62	9.31	10.94	8.10	6.01	6.53	1184.88	1158.43	1228.42	920.18	712.07	800.08
zinc finger, DHHC-type containing 9	Zdhhc9	100772231	0.23	0.08	0.17	0.16	0.28	0.26	9.87	10.98	7.45	9.27	15.52	16.82
zinc finger E-box binding homeobox 1	Zeb1	100762046	17.48	17.16	18.06	19.77	19.73	19.02	2551.29	2545.62	2696.57	2922.80	2888.65	2823.64
zinc finger E-box binding homeobox 2	Zeb2	100752455	12.54	12.81	12.91	14.09	14.49	14.66	3134.62	3205.36	3251.78	3532.39	3583.12	3663.91
zyg-11 related, cell cycle regulator	Zer1	100769353	34.27	33.20	33.67	30.53	22.04	24.18	4071.13	3968.50	4008.21	3608.88	2634.04	2924.58
zinc finger, AN1-type domain 1	Zfand1	100761393	13.55	13.28	11.64	12.38	12.99	14.12	506.61	506.93	422.31	497.18	516.46	537.44
zinc finger, AN1-type domain 2A	Zfand2a	100767585	10.54	10.36	11.91	10.71	11.38	11.93	890.94	889.41	1016.03	908.59	958.40	1015.05
zinc finger, AN1-type domain 2B	Zfand2b	100774315	16.03	14.27	13.23	11.01	7.95	8.80	539.27	493.20	479.45	390.56	287.73	311.25
zinc finger, AN1-type domain 3	Zfand3	100755969	41.70	40.62	39.62	33.56	29.44	30.31	3010.81	2913.47	2856.80	2388.53	2102.06	2167.50
zinc finger, AN1-type domain 4	Zfand4	100768161	1.51	1.35	1.66	1.80	1.58	1.44	139.00	129.02	134.15	152.98	153.18	149.55
zinc finger, AN1-type domain 5	Zfand5	100760152	7.32	7.91	10.10	10.81	11.33	10.87	1004.87	1060.52	1391.14	1479.94	1588.70	1522.58
zinc finger, AN1-type domain 6	Zfand6	100757272	48.25	45.25	50.24	54.56	58.97	58.01	1978.60	1901.44	2094.16	2243.67	2418.76	2380.60
zinc finger, C3H1-type containing	Zfc3h1	100763088	6.17	6.04	4.31	5.75	6.29	5.74	1145.39	1103.53	796.18	1043.03	1140.55	1064.59
zinc finger homeobox 2	Zfhx2	100764649	0.01	0.01	0.00	0.01	0.00	0.00	3.80	2.75	0.00	2.32	0.00	0.93
zinc finger homeobox 3	Zfhx3	100759927	1.52	1.44	1.45	1.69	1.51	1.51	518.77	505.10	503.05	592.21	535.09	532.76
	Zfhx4	100764869	1.18	1.12	1.21	1.44	1.02	0.87	237.74	228.76	257.11	297.84	221.49	184.13
ZFP1 zinc finger protein	Zfp1	100769427	4.33	4.64	5.57	6.57	5.67	5.79	368.38	386.14	468.27	548.17	470.92	491.64
ZFP14 zinc finger protein	Zfp14	100759956	1.09	1.34	1.41	1.25	1.49	1.34	63.04	79.61	88.19	79.97	96.25	80.38
ZFP28 zinc finger protein	Zfp28	100765293	3.93	3.94	5.07	4.59	4.16	3.56	268.88	266.27	319.22	329.13	275.31	238.34
ZFP3 zinc finger protein	Zfp3	100773088	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZFP36 ring finger protein	Zfp36	100772937	5.39	4.75	6.44	5.77	6.10	5.82	264.32	236.08	316.73	282.78	296.01	286.01
ZFP36 ring finger protein-like 1	Zfp36l1	100759015	14.91	15.28	18.47	17.30	14.96	15.54	1222.86	1255.43	1524.04	1423.15	1224.39	1279.56
ZFP36 ring finger protein-like 2	Zfp36l2	103160773	1.89	1.98	1.70	1.06	0.60	0.61	106.34	96.08	104.34	66.06	62.10	51.41
ZFP37 zinc finger protein	Zfp37	100770837	6.42	5.51	5.21	6.50	6.88	6.51	396.48	332.16	330.40	385.92	403.64	395.37
ZFP41 zinc finger protein	Zfp41	100757735	6.00	6.63	8.40	7.20	7.76	8.92	691.18	732.03	883.12	819.36	789.69	909.43

ZFP62 zinc finger protein	Zfp62	100770543	3.23	3.12	3.35	3.99	4.25	3.96	438.25	428.24	459.57	542.37	576.49	540.24
ZFP64 zinc finger protein	Zfp64	100753579	31.61	30.10	27.11	18.35	15.17	15.77	2431.29	2321.44	2120.24	1440.54	1202.65	1280.50
ZFP82 zinc finger protein	Zfp82	100769582	2.75	2.80	2.31	2.61	3.56	2.85	139.00	144.58	129.18	133.28	175.95	143.00
ZFP90 zinc finger protein	Zfp90	100759053	1.12	1.45	1.26	1.55	1.55	1.04	70.64	84.18	75.77	91.55	90.04	65.43
ZFP91 zinc finger protein	Zfp91	100751041	39.28	39.61	42.54	44.42	42.39	41.00	1781.88	1828.24	1910.33	2018.84	1923.00	1863.73
ZFP92 zinc finger protein	Zfp92	100771598	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein-like 1	Zfpl1	100766654	18.43	18.24	23.42	22.67	18.55	21.14	642.57	644.18	854.56	806.61	667.57	711.28
zinc finger protein, FOG family member 1	Zfpm1	100754845	1.98	2.31	2.66	1.87	1.16	0.97	186.85	211.37	253.39	175.00	110.74	94.40
zinc finger protein, FOG family member 2	Zfpm2	100768050	0.00	0.01	0.09	0.02	0.00	0.00	0.00	0.92	11.18	3.48	0.00	0.00
zinc finger RNA binding protein	Zfr	100774882	78.00	78.91	71.76	77.42	87.01	82.62	10122.38	10287.72	9395.14	9960.92	11221.32	10710.38
zinc finger RNA binding protein 2	Zfr2	100772752	2.00	1.53	3.25	1.76	1.10	1.23	208.87	177.52	335.36	185.43	117.99	133.66
zinc finger protein, X-linked	Zfx	100769296	9.43	9.15	9.66	10.85	11.31	10.85	1730.23	1692.81	1805.99	2002.61	2080.32	1997.39
zinc finger, FYVE domain containing 1	Zfyve1	100769982	3.46	3.40	3.90	3.72	3.77	4.23	304.58	299.22	353.99	321.02	312.57	355.17
zinc finger, FYVE domain containing 16	Zfyve16	100761003	6.55	6.75	7.19	8.12	9.06	7.91	1354.26	1398.17	1497.96	1672.32	1850.56	1641.28
zinc finger, FYVE domain containing 19	Zfyve19	100751587	10.42	10.29	10.96	11.47	8.31	9.23	650.17	634.12	736.56	731.28	559.93	611.27
zinc finger, FYVE domain containing 20	Zfyve20	100767223	18.84	18.53	20.92	22.29	19.80	21.73	2739.66	2701.18	3110.19	3275.11	2885.54	3179.75
zinc finger, FYVE domain containing 21	Zfyve21	100767357	23.03	22.21	20.89	17.38	14.04	14.43	737.51	710.07	671.97	545.85	437.80	443.03
zinc finger, FYVE domain containing 26	Zfyve26	100759300	6.32	5.98	7.44	8.04	6.83	6.97	1823.65	1739.48	2151.29	2317.84	1971.65	2015.15
zinc finger, FYVE domain containing 27	Zfyve27	100759967	19.10	19.52	21.84	19.22	12.29	15.27	807.39	827.19	961.38	800.81	557.86	678.57
zinc finger, FYVE domain containing 28	Zfyve28	100771033	0.00	0.01	0.02	0.00	0.02	0.00	0.00	0.92	1.24	0.00	1.03	0.00
zinc finger, FYVE domain containing 9	Zfyve9	100754284	11.62	11.08	14.80	16.07	16.42	15.70	1605.67	1519.87	2039.51	2196.15	2222.12	2160.96
zymogen granule protein 16	Zg16	100751962	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, GATA-like protein 1	Zglp1	100761549	2.38	2.16	2.18	1.89	1.84	1.81	91.90	86.01	93.16	73.01	71.41	71.03
zinc finger, CCCH-type with G patch domain	Zgpat	100767467	10.53	10.00	9.73	8.71	7.68	8.89	616.75	593.86	585.02	523.83	469.88	558.93
zinc finger, GRF-type containing 1	Zgrf1	100755417	2.33	2.19	1.72	2.37	2.51	2.53	452.69	438.30	349.03	462.41	492.65	500.98
zinc fingers and homeoboxes 1	Zhx1	100775034	33.37	33.44	24.50	28.62	29.09	26.53	4205.57	4205.49	3110.19	3613.51	3657.64	3356.40
zinc fingers and homeoboxes 2	Zhx2	100769747	15.33	15.45	15.59	14.83	10.99	11.73	1181.08	1188.63	1209.79	1146.17	844.55	909.43
zinc fingers and homeoboxes 3	Zhx3	100770846	3.77	3.66	3.98	4.11	5.26	5.11	860.56	880.26	992.43	1024.49	1244.05	1253.39
Zic family member 1	Zic1	100764121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zic family member 2	Zic2	100767853	0.00	0.03	0.04	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Zic family member 4	Zic4	100755513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zic family member 5	Zic5	100767568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger with KRAB and SCAN domains 1	Zkscan1	100773451	7.69	7.80	10.38	11.11	11.53	10.81	1066.39	1089.80	1432.13	1546.00	1570.07	1487.99
zinc finger with KRAB and SCAN domains 5	Zkscan5	103160362	9.26	9.62	9.21	9.94	10.95	9.90	1023.10	1065.10	1024.72	1104.45	1205.76	1099.17
zinc finger with KRAB and SCAN domains 7	Zkscan7	100764643	4.15	4.17	3.99	4.21	2.88	2.75	530.16	536.21	476.96	518.04	362.25	345.83
zinc finger, matrin-type 1	Zmat1	100754864	1.20	1.38	1.45	1.30	1.98	1.73	94.18	107.97	109.30	100.83	150.07	133.66

zinc finger, matrin-type 2	Zmat2	100755600	34.68	34.79	43.24	43.07	40.00	38.65	1434.01	1450.33	1798.54	1778.94	1660.12	1607.63
zinc finger, matrin-type 3	Zmat3	100755886	6.93	7.46	7.59	7.96	7.72	7.97	636.49	699.09	719.17	752.14	715.18	745.87
zinc finger, matrin-type 4	Zmat4	100756341	0.05	0.13	0.00	0.00	0.00	0.00	0.76	2.75	0.00	0.00	0.00	0.00
zinc finger, matrin-type 5	Zmat5	100774480	25.67	25.72	23.56	21.29	20.05	20.45	596.24	592.94	561.42	513.40	475.06	485.09
zinc finger, MIZ-type containing 1	Zmiz1	100754403	11.91	11.38	7.52	7.29	5.12	5.45	1209.19	1172.16	772.58	750.98	526.81	579.50
zinc finger, MIZ-type containing 2	Zmiz2	100765539	6.08	5.61	5.28	4.04	2.49	2.94	751.94	700.00	664.52	497.18	314.64	377.61
zinc metallopeptidase STE24	Zmpste 24	100752728	32.81	34.12	32.04	35.35	38.63	37.52	3187.79	3318.83	3102.73	3413.02	3695.94	3623.71
zinc finger, MYM-type 1	Zmym1	100761062	0.01	0.01	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
zinc finger, MYM-type 2	Zmym2	100762715	11.08	10.76	9.95	11.31	12.35	11.36	2386.47	2329.68	2164.96	2441.84	2650.60	2451.64
zinc finger, MYM-type 3	Zmym3	100754045	8.91	9.21	10.55	11.16	10.43	11.13	1192.48	1206.93	1372.51	1425.47	1467.61	1523.51
zinc finger, MYM-type 4	Zmym4	100766296	10.09	9.89	11.33	13.14	12.52	11.69	2043.92	1978.30	2287.92	2595.98	2510.88	2312.37
zinc finger, MYM-type 5	Zmym5	100751650	16.83	16.57	19.10	22.08	24.40	21.23	1325.40	1307.58	1538.95	1787.05	1948.88	1763.72
zinc finger, MYM-type 6	Zmym6	100766000	4.27	4.22	4.66	5.00	5.81	5.37	514.21	514.25	582.54	615.39	713.11	667.35
ZMYM6 neighbor	Zmym6 nb	100760774	25.50	27.04	24.94	28.86	29.77	35.09	401.80	420.00	382.56	446.18	461.60	543.98
zinc finger, MYND-type containing 10	Zmynd1 0	100752121	0.42	0.34	0.33	0.37	0.44	0.31	25.06	22.88	21.12	25.50	25.87	19.63
zinc finger, MYND-type containing 11	Zmynd1 1	100753657	32.88	33.05	26.43	28.53	28.39	29.43	2147.22	2177.78	1761.28	1929.60	1860.91	1977.76
zinc finger, MYND-type containing 12	Zmynd1 2	100759994	3.64	3.38	2.85	3.57	4.25	4.59	176.97	179.35	150.29	185.43	212.17	230.86
zinc finger, MYND-type containing 15	Zmynd1 5	100751418	3.05	2.83	2.61	2.60	2.26	2.22	269.64	238.82	221.09	225.99	194.58	187.87
zinc finger, MYND-type containing 19	Zmynd1 9	100755700	118.02	111.45	124.73	116.53	94.55	100.61	3494.64	3325.23	3752.34	3455.90	2865.88	3006.83
zinc finger, MYND-type containing 8	Zmynd8	100768704	12.63	12.88	8.44	8.49	9.61	9.93	1954.29	1981.96	1319.10	1308.42	1484.17	1563.70
zinc finger protein 106	Znf106	100758432	48.48	46.67	52.97	59.21	57.94	58.80	11927.80	11687.72	13438.14	15063.64	14837.56	14809.84
zinc finger protein 12	Znf12	100757370	6.55	6.97	8.08	9.39	9.25	9.23	757.26	798.82	936.53	1062.73	1048.44	1081.41
zinc finger protein 131	Znf131	100762817	48.21	46.28	49.45	56.69	53.62	49.17	4220.76	4070.98	4356.00	4989.15	4689.52	4325.65
zinc finger protein 133	Znf133	100767427	5.73	5.77	6.72	7.12	6.46	6.63	402.56	408.10	465.78	492.54	444.01	461.73
zinc finger protein 142	Znf142	100771900	5.69	5.01	6.44	5.94	4.99	5.51	958.54	860.13	1121.60	988.56	810.39	937.47
zinc finger protein 143	Znf143	100752658	8.28	8.49	8.81	8.24	9.18	8.37	603.83	622.22	639.67	600.32	670.67	600.99
zinc finger protein 146	Znf146	100753826	23.64	23.64	25.35	28.21	31.38	26.89	1908.72	1926.15	2073.04	2287.71	2519.16	2174.04
zinc finger protein 148	Znf148	100756197	9.91	10.51	10.59	12.35	12.32	11.97	1235.01	1305.75	1305.43	1521.66	1495.56	1475.84
zinc finger protein 157	Znf157	100770761	0.63	0.73	0.87	0.62	1.08	0.94	25.82	25.62	39.75	28.97	48.64	39.26
zinc finger protein 16	Znf16	103164556	8.96	8.45	10.26	10.72	10.36	11.57	1036.01	961.70	1196.13	1229.61	1174.71	1338.45
zinc finger protein 169	Znf169	100758704	1.96	1.88	1.99	1.91	1.54	1.64	149.63	146.41	147.81	149.50	119.02	128.98
zinc finger protein 174	Znf174	100766820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 18	Znf18	100768111	3.57	3.18	3.64	4.50	3.76	3.92	241.53	221.44	240.96	297.84	252.54	262.64
zinc finger protein 182	Znf182	100764777	2.50	2.18	1.88	2.20	2.47	1.92	246.09	225.10	196.25	232.94	253.57	204.69
zinc finger protein 184	Znf184	100770477	4.47	4.28	5.41	5.40	6.08	6.10	541.55	531.63	690.60	661.74	707.93	730.91
zinc finger protein 185 (LIM domain)	Znf185	100764129	0.12	0.03	0.09	0.12	0.11	0.21	8.35	3.66	4.97	12.75	9.31	18.69

zinc finger protein 189	Znf189	100755468	3.31	3.51	4.71	5.41	5.09	4.89	281.79	295.56	399.95	462.41	436.76	412.19
zinc finger protein 202	Znf202	100759931	5.10	5.26	5.57	5.56	6.02	5.55	561.30	577.39	621.04	614.23	643.76	599.12
zinc finger protein 205	Znf205	103161033	5.63	5.27	6.42	5.04	5.06	5.84	847.65	808.89	996.15	785.75	761.75	901.96
zinc finger protein 212	Znf212	100763250	10.69	10.63	11.41	9.45	9.53	10.14	898.53	891.24	976.28	817.04	814.53	856.16
zinc finger protein 213	Znf213	100773530	7.15	7.01	7.32	6.44	4.36	5.33	456.48	444.71	480.69	405.62	279.45	347.70
zinc finger protein 217	Znf217	100772974	12.87	12.22	13.60	12.85	11.38	11.56	2097.85	1998.43	2238.24	2103.44	1852.63	1927.29
zinc finger protein 219	Znf219	100752937	6.94	6.82	5.58	3.66	2.79	2.97	694.22	703.66	613.59	469.36	402.61	400.04
zinc finger protein 22	Znf22	100758901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 23	Znf23	100759132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 235	Znf235	100773247	1.77	1.20	2.29	1.80	0.98	0.89	132.92	95.16	166.44	122.85	82.80	71.97
zinc finger protein 236	Znf236	100764693	3.44	3.12	3.08	3.09	2.77	2.84	704.85	657.91	658.31	657.11	576.49	577.63
zinc finger protein 239	Znf239	100771691	5.86	5.12	5.64	5.70	4.85	5.23	335.72	295.56	331.64	347.68	324.99	313.11
zinc finger protein 24	Znf24	100763582	4.78	5.37	4.53	5.14	5.87	5.57	451.17	506.01	433.49	490.22	549.58	532.76
zinc finger protein 248	Znf248	100770262	1.28	1.12	1.21	1.40	1.63	1.57	97.98	89.67	84.46	108.94	124.20	123.38
zinc finger protein 251	Znf251	100754299	4.03	3.89	3.84	5.99	3.62	3.51	113.93	107.97	141.60	183.11	121.09	146.74
zinc finger protein 26	Znf26	100767846	0.70	0.71	1.44	1.06	1.12	1.16	39.50	39.35	77.01	63.74	64.17	65.43
zinc finger protein 260	Znf260	100753224	5.23	5.05	6.24	7.03	7.83	7.05	454.20	449.28	555.21	623.50	682.06	629.97
zinc finger protein 263	Znf263	100765651	7.95	8.80	9.75	10.85	11.59	11.08	733.71	804.31	860.77	976.97	1044.30	990.75
zinc finger protein 275	Znf275	100771891	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 276	Znf276	100761510	4.74	4.29	4.11	3.90	3.25	3.92	429.90	415.43	393.74	366.22	297.04	357.98
zinc finger protein 277	Znf277	100771775	20.33	20.69	21.69	23.83	24.72	20.83	876.51	895.82	942.74	1011.74	1069.14	887.00
zinc finger protein 280B	Znf280b	100770277	8.65	8.54	9.75	9.98	9.57	9.32	1190.20	1170.33	1352.63	1371.00	1302.01	1282.37
zinc finger protein 280C	Znf280c	100773685	12.96	12.29	11.19	12.97	16.92	15.73	1535.79	1480.52	1319.10	1528.62	1989.24	1862.80
zinc finger protein 280D	Znf280d	100770583	10.91	10.59	9.28	11.46	10.63	9.91	1266.15	1265.49	1129.06	1345.51	1268.89	1173.01
zinc finger protein 281	Znf281	100767251	9.34	9.31	7.59	8.42	8.16	7.64	793.72	797.91	647.13	718.53	693.44	658.01
zinc finger protein 286A	Znf286a	103158583	0.79	0.87	0.71	0.94	1.30	1.08	70.64	73.20	64.59	71.85	111.78	92.53
zinc finger protein 287	Znf287	100761702	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 292	Znf292	100767857	2.11	2.08	1.83	2.09	2.32	2.05	546.11	539.87	478.20	548.17	606.50	540.24
zinc finger protein 296	Znf296	100753129	4.01	4.31	3.03	1.81	1.62	1.95	101.78	113.46	78.25	48.67	39.33	50.47
zinc finger protein 3	Znf3	100774228	4.41	4.69	5.81	6.16	6.23	5.81	348.63	376.08	463.30	492.54	497.83	436.49
zinc finger protein 304	Znf304	100758625	2.79	2.45	2.88	2.54	2.12	2.46	147.35	130.85	157.75	135.59	112.81	138.33
zinc finger protein 316	Znf316	100767059	5.34	4.98	5.15	3.97	3.73	3.50	486.11	447.45	478.20	349.99	329.13	304.70
zinc finger protein 317	Znf317	100767939	14.84	14.19	16.57	18.26	17.77	18.09	1554.78	1510.72	1772.46	1958.57	1885.75	1936.64
zinc finger protein 318	Znf318	100757338	10.95	10.78	12.19	13.81	14.27	13.71	2387.99	2362.62	2697.81	3042.16	3100.82	2998.42
zinc finger protein 319	Znf319	100762951	5.14	5.33	6.14	4.61	4.98	4.96	483.07	512.42	581.30	438.07	475.06	482.29
zinc finger protein 32	Znf32	100771982	16.23	16.05	22.37	26.82	25.96	27.31	559.78	571.90	762.64	884.26	882.84	895.41
zinc finger protein 322	Znf322	100771583	3.14	3.45	2.69	3.48	3.43	3.68	157.98	164.71	129.18	151.82	168.70	172.91
zinc finger protein 324	Znf324	103163644	1.03	1.15	1.15	0.99	0.73	0.69	71.40	82.35	77.01	62.58	50.71	47.67
zinc finger protein 326	Znf326	100767973	12.25	12.96	11.37	12.26	14.84	11.98	1087.66	1148.37	1009.82	1078.95	1297.87	1063.65
zinc finger protein 329	Znf329	103158601	0.62	0.68	0.82	0.87	0.94	1.01	68.36	85.10	100.61	103.14	107.64	127.12
zinc finger protein 330	Znf330	100689256	77.67	75.50	80.22	84.92	92.44	88.01	3594.90	3529.28	3737.44	3884.70	4178.24	3975.15
zinc finger protein 334	Znf334	100769274	5.79	5.67	5.99	7.11	7.79	7.24	875.75	848.24	901.76	1069.68	1168.50	1101.98
zinc finger protein 335	Znf335	100770994	6.66	5.87	5.80	4.98	4.05	4.44	1036.01	921.44	904.24	742.87	633.41	691.66

zinc finger protein 341	Znf341	100759133	1.23	1.34	1.14	0.89	0.71	0.92	129.12	121.70	115.51	91.55	72.45	84.12
zinc finger protein 346	Znf346	100765614	15.57	15.81	19.07	19.11	17.18	19.26	1606.43	1653.47	1992.31	2002.61	1777.07	1988.04
zinc finger protein 35	Znf35	100768992	6.18	6.39	6.92	8.89	7.99	7.41	466.36	482.22	527.89	673.33	593.05	558.00
zinc finger protein 354A	Znf354a	100759975	2.72	2.43	2.41	2.63	3.33	2.95	154.19	150.07	146.57	165.73	194.58	185.06
zinc finger protein 354B	Znf354b	100762011	0.29	0.20	0.22	0.28	0.34	0.22	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 354C	Znf354c	100768981	1.92	2.08	2.86	3.64	3.62	3.43	290.14	309.28	427.28	537.74	531.98	515.94
zinc finger protein 358	Znf358	100767110	14.68	14.78	16.89	13.37	10.77	12.07	1271.47	1283.79	1466.90	1169.35	939.77	1064.59
zinc finger protein 362	Znf362	100774569	5.86	5.46	5.61	5.13	2.64	2.93	313.69	315.69	324.18	301.32	191.47	171.04
zinc finger protein 365	Znf365	100756150	13.58	14.78	13.50	13.12	11.43	12.07	458.00	502.35	473.24	468.20	411.92	454.25
zinc finger protein 366	Znf366	100758082	0.11	0.16	0.13	0.12	0.13	0.12	10.63	16.47	14.91	12.75	11.38	14.95
zinc finger protein 367	Znf367	100760926	15.32	15.62	17.58	18.24	21.58	19.75	1357.30	1380.79	1552.61	1615.53	1891.95	1735.68
zinc finger protein 382	Znf382	100769870	0.45	0.41	0.52	0.61	0.44	0.53	63.04	69.54	72.04	75.33	77.62	85.99
zinc finger protein 383	Znf383	103161319	2.89	2.94	3.74	3.56	4.88	4.43	220.27	226.93	286.92	273.51	365.35	333.68
zinc finger protein 384	Znf384	100755622	13.72	13.01	13.80	14.65	13.22	13.85	1680.10	1599.48	1697.93	1796.33	1628.03	1702.03
zinc finger protein 385A	Znf385a	100769607	5.14	5.50	5.76	3.34	2.88	2.18	199.00	212.29	231.03	129.80	98.32	92.53
zinc finger protein 385B	Znf385b	100767842	0.29	0.43	0.02	0.02	0.04	0.00	23.55	31.11	1.24	2.32	3.10	0.00
zinc finger protein 385C	Znf385c	100774194	0.10	0.03	0.09	0.04	0.00	0.08	8.35	4.58	8.69	3.48	2.07	10.28
zinc finger protein 385D	Znf385d	100768319	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 394	Znf394	100752349	2.40	2.34	3.09	3.32	3.21	3.53	246.85	235.16	319.22	336.09	321.88	357.04
zinc finger protein 395	Znf395	100772882	2.94	3.34	4.04	3.54	3.52	3.58	356.22	398.04	491.87	420.69	418.13	423.41
zinc finger protein 397	Znf397	100763007	2.05	2.31	2.88	3.27	3.40	3.16	170.14	193.07	231.03	259.60	276.34	271.05
zinc finger protein 407	Znf407	100760917	4.29	4.19	4.14	4.81	5.25	4.58	611.43	615.82	611.11	698.83	752.44	658.94
zinc finger protein 408	Znf408	100754652	7.32	7.44	7.85	7.55	6.16	6.62	805.11	826.28	870.70	800.81	649.97	692.59
zinc finger protein 410	Znf410	100750868	23.38	23.49	24.57	24.54	27.42	26.78	1490.98	1540.00	1599.81	1606.26	1791.56	1747.83
zinc finger protein 414	Znf414	100753661	7.93	6.43	6.37	3.38	2.12	2.83	300.02	265.36	262.08	150.66	102.46	111.23
zinc finger protein 423	Znf423	100756719	2.26	2.10	2.28	2.06	1.34	1.53	281.03	263.53	283.20	257.28	160.42	188.80
zinc finger protein 428	Znf428	100773528	6.63	7.40	7.52	4.55	3.20	2.91	211.91	228.76	254.63	157.61	112.81	125.25
zinc finger protein 436	Znf436	100771297	6.71	6.26	8.03	7.65	8.43	8.51	511.93	495.95	633.46	614.23	663.43	679.50
zinc finger protein 438	Znf438	100761467	8.24	7.77	7.54	8.54	8.68	9.02	837.77	822.62	787.48	877.30	937.70	950.56
zinc finger protein 445	Znf445	100765226	50.12	51.23	46.96	53.15	55.28	52.50	6570.77	6660.53	6118.52	6899.05	7072.06	6788.51
zinc finger protein 446	Znf446	103163643	0.82	0.72	1.28	1.41	1.27	1.40	71.40	67.71	129.18	126.32	117.99	125.25
zinc finger protein 449	Znf449	100764457	4.31	3.96	4.80	5.48	6.95	6.13	464.08	431.90	521.68	596.84	743.12	669.22
zinc finger protein 45	Znf45	100767782	3.96	3.57	4.23	4.36	3.90	4.12	420.03	375.16	447.15	462.41	398.47	424.34
zinc finger protein 462	Znf462	100762392	5.19	4.91	4.05	4.65	4.49	4.04	1497.81	1436.60	1175.01	1348.98	1289.59	1172.08
zinc finger protein 467	Znf467	100766792	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 469	Znf469	100755135	2.65	2.79	1.74	1.77	1.20	1.32	982.84	1038.56	652.10	659.43	445.04	495.37
zinc finger protein 473	Znf473	100769900	10.58	11.09	10.40	11.35	12.81	11.54	1048.92	1076.99	1011.06	1124.15	1228.53	1153.38
zinc finger protein 474	Znf474	100765181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 48	Znf48	100753454	15.91	16.02	17.19	14.91	12.99	14.21	1184.88	1198.69	1310.40	1149.65	986.34	1080.48
zinc finger protein 483	Znf483	100757155	1.10	1.08	1.23	1.50	1.62	1.53	163.30	161.05	178.86	228.31	244.26	225.26
zinc finger protein 488	Znf488	100772785	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

zinc finger protein 496	Znf496	100759515	11.03	10.58	13.44	10.41	7.84	8.51	747.39	730.20	927.84	760.25	590.98	629.03
zinc finger protein 503	Znf503	100764134	0.01	0.05	0.00	0.00	0.00	0.00	0.76	3.66	0.00	1.16	0.00	0.00
zinc finger protein 507	Znf507	100759047	9.61	9.05	9.03	8.03	7.46	7.13	897.78	866.54	842.13	771.84	710.00	678.57
zinc finger protein 511	Znf511	100771235	17.60	18.13	18.07	18.20	17.37	17.51	890.18	904.05	915.42	894.69	839.37	845.88
zinc finger protein 512	Znf512	100762981	22.61	23.15	23.78	26.03	28.21	28.52	2249.76	2309.54	2379.84	2579.76	2775.83	2800.27
zinc finger protein 512B	Znf512b	100764259	10.78	10.00	9.26	9.10	8.23	8.59	1834.29	1753.20	1594.84	1600.47	1413.79	1480.52
zinc finger protein 513	Znf513	100767727	13.02	12.54	14.06	10.58	7.03	8.43	726.12	700.00	799.90	588.73	399.50	472.94
zinc finger protein 516	Znf516	100764397	4.72	4.59	5.01	4.09	3.20	3.75	859.80	838.17	914.18	747.50	574.42	682.31
zinc finger protein 518A	Znf518a	100754952	5.49	5.28	3.84	4.44	5.13	4.89	1096.77	1054.12	765.13	893.53	1009.11	972.99
zinc finger protein 518B	Znf518b	100767018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 521	Znf521	100775052	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 524	Znf524	103160268	2.56	2.99	1.99	0.96	0.24	0.43	23.55	26.54	17.39	8.11	2.07	3.74
zinc finger protein 532	Znf532	100770273	2.11	2.39	2.15	2.00	2.25	2.16	401.80	449.28	409.89	376.65	421.24	414.06
zinc finger protein 541	Znf541	100764783	0.00	0.01	0.01	0.00	0.00	0.00	0.00	1.83	1.24	0.00	0.00	0.00
zinc finger protein 558	Znf558	100770008	2.88	2.66	3.46	3.11	3.17	3.96	212.67	202.22	252.14	239.90	248.40	297.22
zinc finger protein 568	Znf568	100759667	5.90	6.02	7.52	8.71	7.21	7.24	1039.05	1076.99	1356.36	1557.59	1278.21	1290.78
zinc finger protein 569	Znf569	100772619	1.97	2.19	3.47	2.68	3.05	2.76	130.64	162.88	252.14	209.76	219.42	198.15
zinc finger protein 570	Znf570	100772912	0.02	0.00	0.00	0.03	0.00	0.00	0.76	0.00	0.00	1.16	0.00	0.93
zinc finger protein 574	Znf574	100757627	4.50	4.09	3.94	1.92	1.30	1.31	293.18	264.44	255.87	133.28	89.01	98.14
zinc finger protein 582	Znf582	103162168	0.38	0.47	0.36	0.32	0.45	0.35	31.14	30.20	23.60	23.18	32.08	27.11
zinc finger protein 583	Znf583	100765005	0.35	0.33	0.49	0.64	0.71	0.65	26.58	23.79	36.02	42.88	53.82	46.73
zinc finger protein 592	Znf592	100751969	9.17	8.54	9.31	9.17	5.44	5.89	1955.05	1816.34	1997.28	1972.48	1174.71	1253.39
zinc finger protein 593	Znf593	100769424	55.31	53.92	62.03	44.78	25.90	29.23	773.21	751.24	864.49	606.12	376.74	400.04
zinc finger protein 597	Znf597	100765360	4.73	5.18	5.41	7.11	5.81	5.66	287.87	315.69	317.97	423.01	358.11	354.24
zinc finger protein 598	Znf598	100768049	39.51	38.56	38.72	31.23	21.40	23.59	3831.88	3786.41	3779.67	3029.42	2086.53	2328.26
zinc finger protein 599	Znf599	100757456	0.50	0.59	0.66	0.80	0.74	1.00	31.90	41.18	44.72	53.31	51.75	65.43
zinc finger protein 605	Znf605	100767561	8.09	7.65	8.86	10.97	11.74	11.55	732.96	681.70	811.08	1001.31	1059.83	1038.42
zinc finger protein 608	Znf608	100754481	4.24	4.46	9.19	9.38	10.05	9.46	534.72	569.15	1186.19	1206.44	1292.70	1217.87
zinc finger protein 609	Znf609	100751915	24.85	23.99	26.49	26.97	25.83	25.43	5538.56	5368.50	5979.41	6043.77	5730.72	5713.64
zinc finger protein 618	Znf618	100755562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 622	Znf622	100766017	47.14	44.85	48.06	46.03	44.57	45.60	2177.60	2079.87	2230.79	2087.21	2027.54	2091.79
zinc finger protein 623	Znf623	103158562	4.35	4.56	5.82	5.71	6.46	6.80	246.09	260.78	332.88	316.39	355.00	378.54
zinc finger protein 624	Znf624	103158578	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.93
zinc finger protein 629	Znf629	100774911	5.23	5.27	6.72	6.28	5.65	6.29	1069.43	1083.40	1387.41	1288.72	1150.90	1293.58
zinc finger protein 638	Znf638	100769635	15.52	14.75	12.62	15.42	16.40	14.71	2899.16	2793.60	2371.14	2876.44	3053.21	2746.06
zinc finger protein 639	Znf639	100756466	26.18	26.76	30.38	34.94	31.17	30.16	1353.50	1396.34	1565.03	1775.47	1606.30	1566.51
zinc finger protein 641	Znf641	100761622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 644	Znf644	100762160	11.17	11.35	11.01	12.83	11.86	11.59	1361.09	1284.71	1307.92	1535.57	1499.70	1365.55
zinc finger protein 646	Znf646	100755411	10.67	10.24	9.89	10.45	9.32	10.10	1869.99	1806.28	1761.28	1812.55	1624.93	1775.87
zinc finger protein 648	Znf648	100753314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 652	Znf652	100754989	6.49	6.62	4.28	4.89	4.94	4.68	1332.23	1354.25	881.88	997.83	1024.64	968.32
zinc finger protein 653	Znf653	100768507	1.55	1.39	1.73	1.33	0.96	1.09	126.84	118.04	149.05	108.94	83.83	99.07
zinc finger protein 654	Znf654	100767528	3.21	3.57	3.34	3.73	4.37	3.79	312.17	351.37	344.06	374.33	430.55	378.54
zinc finger protein 655	Znf655	100752055	33.83	35.28	38.44	39.48	38.61	36.22	2934.86	2967.45	3149.93	3260.04	3150.50	3068.52

zinc finger protein 660	Znf660	103160302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 664	Znf664	103164377	0.06	0.20	0.19	0.00	0.31	0.00	1.52	2.75	2.48	0.00	4.14	0.00
zinc finger protein 667	Znf667	100764114	4.04	3.95	3.65	4.08	4.28	3.95	411.67	404.44	376.35	419.53	424.34	406.58
zinc finger protein 668	Znf668	100755125	2.57	2.29	1.71	1.65	1.38	1.39	228.62	208.63	157.75	144.86	131.44	119.64
zinc finger protein 672	Znf672	100754644	4.62	4.35	4.46	3.49	2.98	3.44	400.28	375.16	399.95	314.07	279.45	315.92
zinc finger protein 683	Znf683	100770855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 687	Znf687	100770608	27.95	27.83	30.93	30.19	25.51	26.73	3756.68	3739.74	4129.94	3980.89	3339.90	3520.90
zinc finger protein 688	Znf688	100752552	6.61	5.13	5.87	4.08	3.73	4.30	345.59	279.09	332.88	236.42	207.00	234.60
zinc finger protein 689	Znf689	100754342	3.37	3.22	3.29	2.83	2.38	2.19	174.69	165.62	170.17	144.86	123.16	123.38
zinc finger protein 691	Znf691	100773131	9.28	9.05	9.70	8.99	8.76	9.34	361.54	355.95	385.05	347.68	343.62	366.39
zinc finger protein 692	Znf692	100755812	3.01	2.99	4.04	4.18	3.59	3.79	420.78	423.66	539.07	550.49	504.04	541.17
zinc finger protein 697	Znf697	100771206	3.54	3.57	2.96	2.80	3.30	3.01	338.75	357.78	295.62	288.57	341.55	314.98
zinc finger protein 7	Znf7	103158733	4.28	4.34	4.89	5.21	6.27	5.42	421.54	429.15	489.38	521.51	616.85	541.17
zinc finger protein 703	Znf703	100751429	7.83	7.75	9.35	7.09	6.38	6.44	642.57	636.86	775.06	575.98	514.39	523.42
zinc finger protein 704	Znf704	100770107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 706	Znf706	100766413	16.54	17.90	20.43	20.79	21.76	20.55	1078.55	1160.26	1314.13	1357.10	1401.37	1339.38
zinc finger protein 707	Znf707	100763645	3.15	3.66	3.69	3.87	3.45	3.75	180.77	202.22	207.43	219.04	191.47	209.37
zinc finger protein 710	Znf710	100764728	4.81	4.45	4.91	4.02	2.91	3.06	592.44	552.68	630.98	499.49	355.00	387.89
zinc finger protein 711	Znf711	100773561	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 740	Znf740	100770364	25.32	25.78	26.20	26.75	27.72	28.40	3194.62	3280.40	3356.12	3424.61	3485.83	3634.00
zinc finger protein 746	Znf746	100762378	5.91	6.74	6.66	5.19	3.84	4.10	481.55	545.36	532.86	449.66	362.25	387.89
zinc finger protein 750	Znf750	100751484	0.01	0.02	0.00	0.00	0.00	0.00	0.76	0.92	0.00	0.00	0.00	0.00
zinc finger protein 76	Znf76	100755287	11.04	11.10	10.36	8.87	6.29	6.62	850.68	878.43	837.17	704.62	507.14	538.37
zinc finger protein 764	Znf764	103164327	1.37	1.38	1.07	1.16	1.15	1.14	75.95	81.44	67.07	70.69	67.27	67.30
zinc finger protein 768	Znf768	100758348	17.58	17.99	18.47	14.58	14.26	13.47	1064.87	1087.06	1129.06	884.26	856.97	815.03
zinc finger protein 770	Znf770	100767834	6.63	6.92	7.21	8.60	9.21	8.53	843.09	881.18	929.08	1098.66	1166.43	1090.76
zinc finger protein 775	Znf775	100773995	2.81	3.04	3.31	2.44	2.62	2.45	184.57	189.41	221.09	143.71	156.28	147.68
zinc finger protein 777	Znf777	100762671	23.54	22.26	23.48	19.88	13.53	15.31	1898.09	1801.70	1915.30	1617.85	1083.63	1244.05
zinc finger family member 783	Znf783	100762961	3.80	4.14	4.32	4.00	2.56	2.61	276.47	288.24	315.49	280.46	209.07	203.76
zinc finger protein 786	Znf786	100754057	2.03	2.01	2.10	2.15	1.66	1.74	169.38	163.79	177.62	175.00	146.97	144.87
zinc finger protein 8	Znf8	103163647	1.26	1.36	1.25	1.70	1.93	1.71	104.82	111.63	99.37	136.75	153.18	142.07
zinc finger protein 800	Znf800	100772711	8.66	9.58	11.05	12.07	12.00	11.28	806.63	873.86	982.49	1100.97	1092.95	1023.46
zinc finger protein 804A	Znf804a	100758357	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zinc finger protein 804B	Znf804b	100765814	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 821	Znf821	100756049	5.65	5.92	6.12	7.20	5.13	6.06	312.17	339.48	365.17	425.32	315.67	362.65
zinc finger protein 827	Znf827	100772729	3.36	3.37	3.32	4.07	3.06	3.26	767.13	754.90	765.13	908.59	724.49	749.61
zinc finger protein 830	Znf830	100764718	19.74	20.09	13.47	12.46	11.99	12.30	1250.20	1275.56	862.01	786.91	754.51	785.12
zinc finger protein 831	Znf831	100766189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger protein 839	Znf839	100772816	1.14	1.22	1.35	1.20	1.13	1.06	93.42	99.74	119.24	107.78	100.39	83.19
zinc finger protein 853	Znf853	100766765	0.10	0.09	0.12	0.16	0.12	0.16	10.63	16.47	13.66	17.38	16.56	17.76
zinc finger protein 862	Znf862	100774288	2.28	2.28	2.28	2.74	2.71	2.82	282.55	283.66	290.65	325.66	311.53	346.76
zinc finger protein 891	Znf891	100764629	0.06	0.05	0.00	0.03	0.06	0.00	0.76	1.83	0.00	1.16	2.07	0.00
zinc finger, NFX1-type containing 1	Znfx1	100756734	5.67	5.40	4.83	5.24	4.79	5.12	1004.87	950.72	853.31	927.14	844.55	901.02
zinc finger, HIT-type containing 1	Znhit1	100768706	18.43	17.40	14.86	13.23	12.46	13.28	248.37	237.91	196.25	163.41	158.35	171.04

zinc finger, HIT-type containing 2	Znhit2	100766069	11.13	10.20	13.47	6.90	4.04	3.94	542.31	494.12	657.06	340.72	198.72	197.22
zinc finger, HIT-type containing 3	Znhit3	100760096	35.14	30.41	15.98	16.76	15.61	18.35	893.98	807.97	399.95	423.01	400.54	455.18
zinc finger, HIT-type containing 6	Znhit6	100767047	42.13	41.72	36.32	39.46	36.56	35.99	1300.33	1321.31	1134.03	1156.60	1081.56	1043.09
zinc ribbon domain containing 1	Znrd1	100753139	101.01	95.68	95.18	76.95	66.35	71.71	1111.21	1081.57	1110.43	1016.37	965.64	1026.27
zinc and ring finger 2	Znrf2	100760215	27.01	29.67	24.65	26.09	28.55	27.73	1268.43	1394.51	1162.59	1226.14	1311.33	1313.21
zinc and ring finger 4	Znrf4	100770816	0.07	0.00	0.00	0.05	0.00	0.00	2.28	6.41	3.73	3.48	2.07	0.93
zona pellucida glycoprotein 1 (sperm receptor)	Zp1	100751110	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
zona pellucida glycoprotein 2 (sperm receptor)	Zp2	100771444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zona pellucida glycoprotein 3 (sperm receptor)	Zp3	100764645	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
zona pellucida glycoprotein 4	Zp4	100773808	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zona pellucida binding protein	Zpbp	100753352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zona pellucida binding protein 2	Zpbp2	100768988	34.20	35.34	21.06	21.15	24.22	22.60	684.34	728.37	419.83	405.62	472.99	431.82
zona pellucida-like domain containing 1	Zpld1	100774987	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.87
ZPR1 zinc finger	Zpr1	100773173	48.30	48.19	50.02	50.27	47.43	44.71	2479.90	2494.38	2639.43	2634.22	2447.74	2345.09
zinc finger, RAN-binding domain containing 1	Zranb1	100769882	9.01	9.42	10.61	10.56	12.13	11.02	938.03	976.34	1111.67	1106.77	1264.75	1148.71
zinc finger, RAN-binding domain containing 2	Zranb2	100752725	64.41	70.33	67.08	64.88	75.69	70.41	2371.28	2629.81	2485.42	2416.35	2846.21	2537.63
zinc finger, RAN-binding domain containing 3	Zranb3	100771558	4.02	4.16	4.37	4.61	5.71	4.72	480.79	491.37	542.79	551.65	686.20	577.63
zinc finger (CCCH type), RNA-binding motif and serine/arginine rich 2	Zrsr2	100769034	8.84	8.71	7.92	8.74	8.27	8.38	969.93	969.02	909.21	983.92	940.80	940.28
zinc finger and SCAN domain containing 10	Zscan10	100773821	0.01	0.00	0.00	0.00	0.03	0.00	0.76	0.92	0.00	0.00	3.10	0.00
zinc finger and SCAN domain containing 12	Zscan12	100771593	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger and SCAN domain containing 18	Zscan18	103163649	0.01	0.00	0.00	0.03	0.03	0.03	0.76	0.00	0.00	2.32	2.07	1.87
zinc finger and SCAN domain containing 2	Zscan2	100771166	1.52	1.65	2.34	1.93	1.03	1.25	102.54	107.97	151.53	120.53	64.17	73.84
zinc finger and SCAN domain containing 20	Zscan20	100773696	4.23	4.38	5.06	4.72	3.92	4.48	443.57	461.18	549.00	494.86	408.82	462.66
zinc finger and SCAN domain containing 21	Zscan21	100773934	11.75	11.10	11.75	12.06	12.73	13.28	687.38	653.33	689.36	694.19	728.63	766.43
zinc finger and SCAN domain containing 22	Zscan22	103163646	2.42	2.04	1.78	1.38	1.39	1.42	116.21	103.40	100.61	88.08	78.66	80.38
zinc finger and SCAN domain containing 25	Zscan25	100751482	8.30	10.13	9.86	5.90	4.38	4.22	271.16	321.18	301.83	186.59	131.44	135.53
zinc finger and SCAN domain containing 26	Zscan26	100765931	18.39	18.21	20.62	21.94	22.34	21.22	2720.67	2719.48	3070.44	3234.55	3269.52	3140.49
zinc finger and SCAN domain containing 29	Zscan29	100755445	7.11	7.15	6.62	7.49	8.61	8.63	1020.06	1071.50	1011.06	1113.72	1252.33	1277.69
zinc finger and SCAN domain containing 30	Zscan30	100766295	0.21	0.24	0.31	0.40	0.40	0.41	28.86	34.77	42.23	53.31	50.71	53.28
zinc finger and SCAN domain containing 4	Zscan4	103164598	0.03	0.00	0.05	0.00	0.00	0.12	0.00	0.92	1.24	0.00	0.00	2.80
zinc finger and SCAN domain containing 5B	Zscan5b	103162169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

zinc finger, SWIM-type containing 1	Zswim1	100773405	19.47	18.62	17.61	16.74	18.18	18.45	810.43	753.99	729.10	610.75	597.19	621.56
zinc finger, SWIM-type containing 2	Zswim2	100752017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, SWIM-type containing 3	Zswim3	100773695	24.30	24.78	28.35	27.37	27.83	28.99	1702.13	1752.29	2027.09	1928.44	1983.03	2069.36
zinc finger, SWIM-type containing 4	Zswim4	100758751	4.19	3.98	4.53	3.84	2.86	3.38	508.89	494.12	563.91	471.68	356.04	415.93
zinc finger, SWIM-type containing 5	Zswim5	100761909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
zinc finger, SWIM-type containing 6	Zswim6	100757838	1.61	1.66	1.53	1.79	1.51	1.69	162.54	159.22	146.57	177.31	146.97	166.37
zinc finger, SWIM-type containing 7	Zswim7	100760249	4.96	5.63	5.35	4.23	3.82	5.00	123.05	138.17	125.45	104.30	94.18	120.57
zinc finger, SWIM-type containing 8	Zswim8	100762983	34.39	32.85	36.47	29.13	21.58	25.20	6128.72	5894.65	6565.67	5258.02	3919.49	4553.71
zinc finger with UFM1-specific peptidase domain	Zufsp	100771141	11.25	11.35	6.94	7.64	7.79	7.75	718.52	739.35	442.18	464.73	487.48	485.09
zw10 kinetochore protein	Zw10	100750463	26.58	25.09	26.92	27.87	30.03	31.25	2213.30	2087.19	2240.72	2285.39	2482.93	2581.56
zwilch kinetochore protein	Zwilch	100756333	17.55	18.52	24.75	26.91	28.89	29.61	1133.99	1188.63	1594.84	1708.25	1828.82	1928.22
ZW10 interacting kinetochore protein	Zwint	100771183	19.00	17.38	17.59	19.14	23.77	21.61	583.33	549.94	555.21	587.57	737.95	667.35
ZXD family zinc finger C	Zxdc	100771535	12.38	12.00	12.93	12.47	12.62	13.38	1302.61	1262.75	1363.81	1294.51	1287.52	1380.51
zyg-11 family member A, cell cycle regulator	Zyg11a	100761616	1.81	1.82	0.05	0.01	0.03	0.06	163.30	165.62	3.73	1.16	3.10	4.67
zyg-11 family member B, cell cycle regulator	Zyg11b	100761327	8.54	8.73	9.74	11.17	10.78	11.10	775.49	808.89	898.03	1037.23	1001.87	1026.27
zyxin	Zyx	100759336	32.83	32.34	35.58	28.72	16.60	17.40	2159.37	2113.73	2338.85	1867.02	1100.19	1154.32
zinc finger, ZZ-type with EF-hand domain 1	Zzef1	100756655	3.52	3.40	3.12	3.37	3.35	3.41	964.61	936.08	894.30	958.43	917.00	938.41
zinc finger, ZZ-type containing 3	Zzz3	100759098	27.95	28.15	28.67	29.66	29.03	28.58	3384.51	3399.35	3502.68	3576.43	3508.60	3447.06