Neubauer, *et al.* Post-mortem whole exome analysis in a large sudden infant death syndrome cohort with a focus on cardiovascular and metabolic genetic diseases

Supp. Data Table S3 Average coverage per gene

Genes	Average	STDEV	Median	Min.	Max.
ABCC8	197.59	59.55	195.44	52.87	531.02
ABCC9	81.32	26.90	77.17	19.51	198.09
ACAD9	108.90	34.01	106.37	29.17	294.63
ACADM	74.91	23.07	71.96	18.53	199.60
ACADS	166.63	62.00	155.01	40.73	451.78
ACADVL	72.41	23.59	69.03	18.09	161.00
ACTA2	121.21	35.09	118.73	34.28	291.74
ACTC1	69.35	21.04	66.28	17.11	171.16
ACTN2	150.93	43.54	148.83	39.74	410.84
ACVRL1	40.64	12.57	39.02	10.10	102.43
ADAMTS10	131.64	50.45	124.98	34.58	390.09
AGL	17.48	5.82	16.58	4.02	42.50
AKAP9	55.07	16.92	52.67	13.72	141.91
ANK2	89.41	27.29	88.11	24.23	226.15
ANKRD1	97.88	31.08	92.58	22.25	244.75
ASCL1	67.68	28.01	63.56	15.18	200.40
ATP5E	110.94	36.09	106.30	26.90	264.77
BAG3	127.28	39.44	120.95	30.98	316.81
BMPR1B	188.14	72.30	186.94	50.22	488.84
BMPR2	114.21	35.58	112.13	29.06	329.38
BRAF	207.84	76.92	211.29	60.90	601.99
CACNA1C	11.25	3.84	11.21	3.40	30.63
CACNA2D1	294.91	115.78	291.12	83.76	739.21
CACNB2	40.65	14.71	41.56	12.33	115.95
CALM1	88.78	28.87	87.49	22.37	227.44
CALM2	113.27	33.55	108.83	28.92	290.39
CALM3	157.37	54.21	153.87	38.44	418.17
CALR3	229.72	89.29	226.00	53.39	738.34
CAMK2G	27.85	8.47	27.26	8.03	75.36
CASQ2	140.54	43.92	139.52	39.50	366.85
CAV1	26.67	7.58	26.02	6.41	65.93
CAV3	76.23	22.71	75.09	19.52	205.87
CBL	81.76	23.85	81.31	21.86	221.85
COA5	73.04	22.31	69.67	16.06	175.22
COL3A1	88.72	35.66	80.89	20.70	259.06
COL5A1	292.39	96.98	279.25	80.73	796.17
COL5A2	118.65	41.32	112.07	29.00	303.64
CPT1A	123.71	42.42	122.97	31.34	372.19
CPT2	95.54	29.05	92.68	24.46	250.24
CRYAB	180.73	53.55	178.43	51.28	400.06
CSRP3	77.78	22.79	75.53	20.99	203.42
CTF1	34.02	11.26	32.96	9.19	91.29
CTGF	65.70	20.29	64.23	15.64	149.64
CTNNA3	530.58	246.37	537.91	158.58	1422.98
DCHS1	102.84	31.80	100.90	26.36	250.36
DES	124.21	44.82	117.50	32.31	347.53
DLG1	44.60	13.98	43.54	11.64	117.86

DMD	23.96	12.10	22.23	6.21	64.35
DMPK	32.21	11.54	29.97	8.92	82.13
DNAJC19	16.81	5.27	16.60	4.01	43.30
DNM1L	53.88	16.80	52.40	13.68	149.26
DOLK	89.86	33.62	84.39	22.22	217.63
DPP6	248.08	102.30	254.46	77.29	717.59
DSC2	42.35	14.25	40.12	10.26	105.49
DSG2	74.52	22.73	72.74	19.80	190.92
DSP	58.44	17.75	56.22	14.96	143.98
DTNA	16.71	5.77	16.54	4.89	42.40
ECE1	54.26	18.14	53.74	15.54	152.59
EFEMP2	74.48	25.25	70.33	20.37	168.42
ELN	54.47	20.55	51.62	12.84	161.25
EMD	94.82	55.48	77.02	22.78	380.76
ENG	77.00	26.20	74.26	21.52	209.39
ETFA	244.72	75.40	241.12	68.90	705.47
ETFB	89.71	31.21	89.77	25.42	272.35
ETFDH	125.40	37.15	120.75	31.42	307.38
EYA4	52.89	18.57	52.83	15.62	132.94
FBN1	160.44	48.29	155.48	41.48	393.66
FBN2	162.05	48.24	157.23	41.74	385.52
FHL2	76.49	22.84	76.30	20.73	206.01
FKRP	27.21	10.65	25.26	6.91	70.96
FKTN	34.66	10.80	33.49	8.78	85.05
FLNA	57.37	31.84	50.63	17.58	227.06
FOXRED1	45.61	15.06	44.79	11.13	116.16
G6PC	68.80	21.23	68.48	17.15	188.89
GAA	43.29	15.19	41.09	11.26	108.82
GATA4	136.72	41.83	132.54	40.06	380.13
GATA5	104.94	39.56	97.66	29.15	262.39
GATA6	85.97	27.08	82.64	22.25	225.14
GATA6	85.97	27.08	82.64	22.25	225.14
GATAD1	41.89	12.96	39.97	10.55	104.39
GJA1	95.85	29.35	91.63	23.32	246.78
GJA5	53.80	16.84	52.43	13.54	132.13
GJD4	75.01	27.35	70.59	18.06	197.61
GK	27.16	12.42	23.59	6.83	73.98
GLA	73.86	36.06	62.47	21.04	225.34
GLB1	123.00	35.74	120.34	32.48	334.35
GPD1L	124.10	35.51	121.21	32.47	324.76
GUSB	139.33	49.34	137.68	38.86	420.16
HADH	87.75	24.92	85.54	22.71	217.63
HADHA	152.68	45.07	150.74	40.51	416.89
HADHB	161.77	50.36	157.31	41.51	452.50
HCN2	83.59	36.57	79.48	25.05	246.81
HCN4	92.56	31.01	87.80	24.73	251.25
HEY2	102.51	30.92	98.48	25.73	237.11
HFE	12.73	3.90	12.33	3.29	31.69
HMGCL	105.57	33.79	101.97	25.58	297.08
HMGCS2	44.16	12.44	43.34	11.71	107.12
ILK	49.43	14.95	47.46	12.67	112.42
JPH2	76.34	25.22	75.19	21.24	219.85
JUP	70.75	24.88	69.47	19.08	200.28
KCNA5	98.55	30.51	93.72	32.33	124.81

KCND3	161.83	66.13	165.39	51.09	453.10
KCNE1	32.35	9.61	32.07	9.25	85.69
KCNE1L	48.38	26.69	40.44	13.12	188.08
KCNE2	87.84	25.77	87.34	24.63	239.87
KCNE3	53.93	15.87	52.95	13.86	142.18
KCNE5	37.29	9.82	36.52	12.54	47.64
KCNH2	38.98	13.54	37.52	10.28	104.65
KCNJ2	23.31	7.11	22.52	5.84	59.50
KCNJ5	185.94	55.32	183.13	48.76	463.39
KCNJ8	74.60	23.39	71.35	20.62	172.86
KCNQ1	208.08	83.41	206.53	68.02	551.71
LAMA4	46.46	13.88	44.56	12.05	110.17
LAMP2	22.57	10.15	19.88	6.13	61.19
LDB3	38.31	11.63	37.35	10.08	104.76
LMNA	51.23	16.76	48.59	13.94	136.75
MAP2K1	238.98	79.18	239.97	70.42	686.97
MAP2K2	234.64	88.92	227.11	67.76	677.44
MED23	88.58	29.73	82.96	20.47	218.79
MRPL3	136.16	43.41	133.10	34.32	333.80
MYBPC3	173.27	60.89	165.63	44.12	467.02
MYH11	64.17	22.09	63.54	17.42	195.73
MYH6	138.33	43.01	136.93	37.60	371.27
MYH7	133.77	41.51	131.21	35.01	350.08
MYL2	214.89	74.24	210.39	50.71	653.85
MYL3	136.39	45.36	128.74	38.12	365.97
MYLK	55.96	15.99	54.66	16.51	143.79
MYLK2	129.14	41.72	123.80	33.63	342.21
MYOM1	90.30	26.89	89.44	24.51	246.97
MYOZ2	102.02	33.27	97.60	27.75	239.91
MYPN	147.40	44.01	145.44	38.43	407.71
NEBL	75.63	23.82	75.66	22.00	195.51
NEXN	52.98	17.09	52.31	14.16	151.74
NKX2-5	75.36	28.87	71.45	36.35	108.58
NOS1AP	82.87	28.07	82.80	25.14	212.50
NOTCH1	126.23	45.18	115.30	32.16	311.28
PDLIM3	48.58	13.64	48.12	12.30	114.92
PKP2	64.89	21.21	64.65	17.58	188.63
PLN	81.87	29.15	76.78	19.14	197.34
PRKAG2	178.98	67.59	178.20	57.11	504.62
PRKG1	350.62	153.71	349.45	106.30	905.19
PSEN1	56.51	17.03	55.70	15.14	156.47
PSEN2	81.66	24.36	79.61	22.85	212.22
RAF1	190.88	58.84	186.79	50.66	551.82
RANGRF	28.20	9.98	26.92	7.15	62.92
RBM20	152.84	44.91	153.15	45.13	396.50
RYR2	207.27	65.61	206.53	58.03	558.86
SCN10A	149.58	43.04	147.11	40.61	384.91
SCN1B	66.26	22.09	62.54	17.90	170.92
SCN2B	96.39	33.56	93.29	24.56	258.03
SCN3B	31.08	9.58	30.70	7.64	85.25
SCN4B	19.19	5.98	18.70	4.77	48.76
SCN5A	22.52	6.72	22.15	6.26	60.25
SCO2	37.26	14.84	35.28	9.58	87.64
SDHA	168.60	51.44	163.48	45.76	491.09

SEMA3A	128.05	43.74	122.63	33.58	329.63
SGCD	58.85	22.69	58.61	17.63	156.79
SLC22A5	104.17	28.56	100.75	28.06	253.97
SLC25A3	54.15	17.27	52.80	13.74	135.20
SLC25A3	54.15	17.27	52.80	13.74	135.20
SLC37A4	18.99	5.87	18.43	4.67	47.22
SLMAP	243.95	73.76	240.10	63.82	652.42
SMAD3	39.19	11.48	39.63	11.53	102.04
SMAD9	43.26	12.89	42.54	12.32	115.78
SNTA1	131.27	48.78	129.58	37.60	422.86
SYNE1	78.74	23.21	76.11	19.96	195.10
SYNE2	69.35	20.28	68.19	18.40	183.58
TAZ	21.09	11.25	17.92	6.37	77.94
TBX5	39.96	12.24	39.03	10.59	110.20
TCAP	56.19	20.62	52.48	13.29	144.18
TGFB2	48.70	14.63	47.98	13.20	123.44
TGFB3	103.54	31.84	103.42	26.76	280.50
TGFBR1	38.50	12.39	36.12	8.42	92.26
TGFBR2	54.99	15.91	53.33	15.47	132.20
TMEM43	124.29	37.14	121.05	33.43	304.92
TMPO	44.12	13.94	42.68	10.34	115.88
TNNC1	206.93	67.54	197.05	49.45	524.48
TNNI3	178.17	68.81	166.76	45.59	490.88
TNNT2	94.95	29.48	92.29	25.71	241.38
TPM1	53.53	15.40	52.63	13.93	131.99
TPM1	53.53	15.40	52.63	13.93	131.99
TRDN	234.93	90.38	231.79	64.85	633.54
TRPM4	104.08	38.53	101.29	26.75	314.37
TRPM7	89.35	28.25	86.85	23.09	250.58
TSFM	66.72	21.11	64.09	17.08	176.69
TTN	32.74	11.38	30.80	7.81	77.87
TTR	162.91	52.27	155.53	36.56	411.55
TXNRD2	414.15	137.27	405.08	111.05	1149.59
VCL	72.83	21.28	72.26	20.45	197.28
XK	41.57	18.76	35.12	9.93	106.02
ZASP	38.62	8.69	35.87	28.63	52.96
ZNF365	89.30	30.62	89.05	26.56	233.83

calculation: average coverage of the gene = (number of total reads mapped to exons * read lenght - overlapping bases) / (sum of exon lenghts)
Abbreviations: STDEV: standard deviation.