Gene	Primer pair	Cycling conditions
Gfap	F 5'-AACGCATCACCATTCCTG-3' R 5'-CATCTCCACAGTCTTTACCAC-3'	(95ºC 10sec, 65ºC 20 sec, 72ºC 30 sec) x 40
Rsad2	F 5'-CAAGACATCCTTCGTGCTG-3' R 5'-CTGCCATTGCTCACTATGC-3'	(95ºC 20sec, 63ºC 30 sec, 72ºC 30 sec) x 70
ApoD	F 5'-AACTACTCGCTGATGGAGAACGG-3' R 5'-GCTTGGCTGGCTCTGAGACG-3'	(95ºC 10sec, 63ºC 20 sec, 72ºC 30 sec) x 40
Socs3	F 5'-GAGAGCGGATTCTACTGGAG-3' R 5'-TGGATGCGTAGGTTCTTGG-3'	(95ºC 10sec, 60ºC 20 sec, 72ºC 30 sec) x 50
Tbp	F 5'-GCACAGGAGCCAAGAGTGA-3' R 5'-CCCACCATGTTCTGGATCTT-3'	(95ºC 10sec, 60ºC 20 sec, 72ºC 30 sec) x 40

Supplemental Table 1. Primer sets and cycling conditions for qPCR. All qPCR reactions began with a 3 minute 95°C hot start step and ended with a melt curve program (60-95°C with a heating rate of +0.5°C every 20 seconds).

Probe Set ID	Gene Symbol	Gene Title	108 dpi	158 dpi	198 dpi
1420699_at	Clec7a*	C-type lectin domain family 7, member a	1.9	6.0	13.7
1419202_at	Cst7*	cystatin F (leukocystatin)	1.9	5.0	11.0
1419100_at	Serpina3n*	serine (or cysteine) peptidase inhibitor, clade A, member 3N	1.8	3.4	7.2
1436996_x_at	Lyz1*	lysozyme 1	1.7	2.9	6.9
1440142_s_at	Gfap*	glial fibrillary acidic protein	1.9	3.1	6.8
1439426_x_at	Lyz1*	lysozyme 1	1.7	2.4	5.6
1423547_at	Lyz2*	lysozyme 2	1.8	3.4	5.5
1426808_at	Lgals3*	lectin, galactose binding, soluble 3	1.6	2.3	5.3
1448303_at	Gpnmb*	glycoprotein (transmembrane) nmb	1.6	2.1	5.3
1419561_at	Ccl3*	chemokine (C-C motif) ligand 3	1.5	2.5	5.0
1449164_at	Cd68*	CD68 antigen	1.4	3.1	4.8
1418021_at	C4b*	complement component 4B (Childo blood group)	2.2	3.0	4.7
1435477_s_at	Fcgr2b*	Fc receptor, IgG, low affinity IIb	1.5	2.7	4.6
1450792_at	Tyrobp*	TYRO protein tyrosine kinase binding protein	1.3	2.9	4.6
1422903_at	Ly86*	lymphocyte antigen 86	1.4	3.2	4.5
1453196_a_at	Oasl2*	2'-5' oligoadenylate synthetase-like 2	1.6	4.2	4.5
1436778_at	Cybb*	cytochrome b-245, beta polypeptide	1.2	2.9	4.4
1420394_s_at	Gp49a /// Lilrb4*	glycoprotein 49 A /// leukocyte immunoglobulin-like receptor, subfamily B, member 4	1.3	2.7	4.2
1418674_at	Osmr*	oncostatin M receptor	1.4	1.9	4.1
1427076_at	Mpeg1*	macrophage expressed gene 1	1.5	2.5	3.9
1418191_at	Usp18	ubiquitin specific peptidase 18	1.5	3.6	3.9
1460218_at	Cd52*	CD52 antigen	1.2	3.2	3.8
1448380_at	Lgals3bp*	lectin, galactoside-binding, soluble, 3 binding protein	1.8	3.5	3.7
1419128_at	Itgax*	integrin alpha X	1.3	2.6	3.7
1417266_at	Ccl6*	chemokine (C-C motif) ligand 6	1.5	3.4	3.6
1451941_a_at	Fcgr2b*	Fc receptor, IgG, low affinity IIb	1.7	2.8	3.5
1419132_at	Tlr2*	toll-like receptor 2	1.6	2.0	3.5
1448591_at	Ctss*	cathepsin S	1.5	2.4	3.4
1417936_at	Ccl9*	chemokine (C-C motif) ligand 9	1.6	3.4	3.3
1418340_at	Fcer1g*	Fc receptor, IgE, high affinity I, gamma polypeptide	1.1	2.7	3.2
1442118_at	*	Transcribed locus	1.4	1.7	3.2
1454268_a_at	Cyba*	cytochrome b-245, alpha polypeptide	-1.1	2.1	3.2
1450678_at	Itgb2*	integrin beta 2	1.6	2.4	3.1
1420361_at	Slc11a1*	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	1.6	1.8	2.8
1448891_at	Fcrls*	Fc receptor-like S, scavenger receptor	2.2	2.0	2.8
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	1.2	2.8	2.8
1422875_at	Cd84*	CD84 antigen	1.3	1.9	2.8
1425336_x_at	H2-K1*	histocompatibility 2, K1, K region	1.3	2.9	2.8
1417961_a_at	Trim30*	tripartite motif-containing 30	1.1	2.2	2.7
1419282_at	Ccl12	chemokine (C-C motif) ligand 12	1.1	2.6	2.7
1419004_s_at	Bcl2a1*	B-cell leukemia/lymphoma 2 related protein A1	1.5	2.2	2.7
1418930_at	Cxcl10*	chemokine (C-X-C motif) ligand 10	1.2	4.4	2.7
1418365_at	Ctsh*	cathepsin H	1.4	2.0	2.6
1422943_a_at	Hspb1	heat shock protein 1	-1.0	1.4	2.6
1416382_at	Ctsc*	cathepsin C	1.5	2.1	2.6
1460287_at	Timp2*	tissue inhibitor of metalloproteinase 2	1.3	1.6	2.6
1460227_at	Timp1	tissue inhibitor of metalloproteinase 1	1.2	2.5	2.6

1448748_at	Plek*	pleckstrin	1.5	1.9	2.6
1425964_x_at	Hspb1	heat shock protein 1	-1.0	1.3	2.6
1417851_at	Cxcl13	chemokine (C-X-C motif) ligand 13	1.3	2.9	2.5
1417268_at	Cd14*	CD14 antigen	1.5	2.1	2.5
1417346_at	Pycard*	PYD and CARD domain containing	1.3	2.1	2.5
1419043_a_at	Iigp1	interferon inducible GTPase 1	1.2	2.7	2.4
1451780_at	Blnk*	B-cell linker	1.3	1.4	2.4
1448617_at	Cd53*	CD53 antigen	1.3	2.0	2.4
1460188_at	Ptpn6*	protein tyrosine phosphatase, non-receptor type 6	1.6	1.9	2.4
1460180_at	Hexb*	hexosaminidase B	1.5	1.7	2.4
1422124_a_at	Ptprc*	protein tyrosine phosphatase, receptor type, C	1.2	1.7	2.4
1444564_at	Apod	apolipoprotein D	-1.0	1.2	2.4
1448021_at	*	Transcribed locus	1.3	1.2	2.4
1421457_a_at	Samsn1*	SAM domain, SH3 domain and nuclear localization signals, 1	1.3	1.9	2.3
1450355_a_at	Capg*	capping protein (actin filament), gelsolin-like	1.1	1.4	2.3
1433935_at	AU020206*	expressed sequence AU020206	1.4	1.7	2.3
1451655_at	Slfn8	schlafen 8	1.1	1.8	2.3
1455332_x_at	Fcgr2b*	Fc receptor, IgG, low affinity IIb	1.3	1.9	2.3
1418825_at	Irgm*	immunity-related GTPase family, M	1.2	2.0	2.3
1419905_s_at	Hpgd*	hydroxyprostaglandin dehydrogenase 15 (NAD)	1.4	1.5	2.2
1434719_at	A2m*	alpha-2-macroglobulin	1.4	1.5	2.2
1421009_at	Rsad2	radical S-adenosyl methionine domain containing 2	1.3	2.1	2.2
1418240_at	Gbp2	guanylate nucleotide binding protein 2	1.3	3.0	2.2
1420591_at	Gpr84	G protein-coupled receptor 84	1.4	1.7	2.2
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	-1.0	2.0	2.1
1427746_x_at	H2-K1*	histocompatibility 2, K1, K region	1.5	2.6	2.1
1424754_at	Ms4a7	membrane-spanning 4-domains, subfamily A, member 7	-1.0	1.3	2.1
1443698_at	Xaf1	XIAP associated factor 1	1.1	1.8	2.1
1451584_at	Havcr2*	hepatitis A virus cellular receptor 2	1.3	1.8	2.1
1426112_a_at	Cd72	CD72 antigen	1.0	1.7	2.1
1431591_s_at	Isg15	ISG15 ubiquitin-like modifier	1.2	2.3	2.1
1436346_at	Cd109	CD109 antigen	1.1	-1.1	2.1
1424948_x_at	H2-D1 /// H2-K1*	histocompatibility 2, D region locus 1 /// histocompatibility 2, K1, K region	1.4	2.4	2.1
1449227_at	Ch25h*	cholesterol 25-hydroxylase	1.1	1.6	2.0
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	1.4	1.9	2.0
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	1.3	2.2	2.0
1421408_at	Igsf6*	immunoglobulin superfamily, member 6	1.2	1.3	2.0
1416371_at	Apod	apolipoprotein D	-1.7	1.2	2.0
1421840_at	Abca1*	ATP-binding cassette, sub-family A (ABC1), member 1	1.3	1.3	1.9
1435144_at	*	Transcribed locus	1.3	1.4	1.9
1438936_s_at	Ang*	angiogenin, ribonuclease, RNase A family, 5	1.0	1.4	1.9
1454757_s_at	D12Ertd647e	DNA segment, Chr 12, ERATO Doi 647, expressed	1.2	1.7	1.9
1424542_at	S100a4	S100 calcium binding protein A4	1.3	1.4	1.9
1449195_s_at	Cxcl16*	chemokine (C-X-C motif) ligand 16	1.1	1.5	1.9
1451537_at	Chi3l1*	chitinase 3-like 1	1.1	1.7	1.8
1420404_at	Cd86*	CD86 antigen	1.3	1.3	1.8

1417523_at	Plek*	pleckstrin	1.1	1.7	1.8
1419879_s_at	Trim25	tripartite motif-containing 25	1.2	1.3	1.8
1456133_x_at	Itgb5*	integrin beta 5	1.5	1.3	1.8
1421374_a_at	Fxyd1	FXYD domain-containing ion transport regulator 1	-1.6	1.4	1.8
1448561_at	Ncf2*	neutrophil cytosolic factor 2	1.4	1.6	1.8
1451132_at	Pbxip1	pre-B-cell leukemia transcription factor interacting protein 1	1.3	1.3	1.8
1426454_at	Arhgdib*	Rho, GDP dissociation inhibitor (GDI) beta	1.1	1.7	1.7
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	1.0	1.5	1.7
1434945_at	Lpcat2	lysophosphatidylcholine acyltransferase 2	1.2	1.3	1.7
1416340_a_at	Man2b1*	mannosidase 2, alpha B1	1.5	1.4	1.7
1450234_at	Ms4a6c*	membrane-spanning 4-domains, subfamily A, member 6C	1.3	1.7	1.7
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	1.2	1.8	1.7
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	1.1	1.6	1.7
1460351_at	S100a11	S100 calcium binding protein A11 (calgizzarin)	-1.6	1.4	1.7
1460330_at	Anxa3*	annexin A3	1.3	1.4	1.7
1418004_a_at	Tmem176b*	transmembrane protein 176B	1.1	1.4	1.7
1426397_at	Tgfbr2*	transforming growth factor, beta receptor II	1.1	1.2	1.7
1424617_at	Ifi35	interferon-induced protein 35	1.1	1.6	1.6
1422571_at	Thbs2	thrombospondin 2	1.2	1.3	1.6
1429525_s_at	Myo1f*	myosin IF	1.2	1.5	1.6
1418099_at	Tnfrsf1b*	tumor necrosis factor receptor superfamily, member 1b	1.2	1.4	1.6
1417291_at	Tnfrsf1a*	tumor necrosis factor receptor superfamily, member 1a	1.5	1.3	1.6
1458019_at		Transcribed locus	1.0	1.4	1.6
1452398_at	Plce1	phospholipase C, epsilon 1	1.1	1.3	1.6
1451318_a_at	Lyn*	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	1.4	1.4	1.6
1451310_a_at	Ctsl*	cathepsin L	1.3	1.4	1.6
1450939_at	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	1.3	1.2	1.5
1460220_a_at	Csf1	colony stimulating factor 1 (macrophage)	1.5	1.5	1.5
1449342_at	Ptplb	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	-1.1	1.4	1.5
1424829_at	A830007P12Rik	RIKEN cDNA A830007P12 gene	1.3	1.2	1.5
1454748_at	Naprt1*	nicotinate phosphoribosyltransferase domain containing 1	1.6	1.3	1.5
1451139_at	Slc39a4	solute carrier family 39 (zinc transporter), member 4	1.3	1.1	1.5
1433768_at	Palld	palladin, cytoskeletal associated protein	1.3	1.1	1.5
1425156_at	Gbp6	guanylate binding protein 6	1.1	1.7	1.5
1437886_at	Klhl6*	kelch-like 6 (Drosophila)	1.2	1.3	1.5
1418641_at	Lcp2*	lymphocyte cytosolic protein 2	1.0	1.6	1.4
1455132_at	A430107D22Rik*	RIKEN cDNA A430107D22 gene	1.5	1.5	1.4
1428479_at	Nfatc1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	1.6	1.3	1.4
1420624_a_at	Vamp8	vesicle-associated membrane protein 8	-1.5	1.2	1.3
1421221_at	Bco2	beta-carotene oxygenase 2	1.3	1.5	1.3
1449960_at	Nptx2	neuronal pentraxin 2	-1.2	1.5	1.3
1418451_at	Gng2	guanine nucleotide binding protein (G protein), gamma 2	-1.5	1.1	1.2
1424058_at	Prrc1	proline-rich coiled-coil 1	1.5	1.1	1.2

1416675_s_at	Plcd1	phospholipase C, delta 1	1.6	1.2	1.2
1448416_at	Mgp	matrix Gla protein	-1.7	1.2	1.1
1424254_at	Ifitm1	interferon induced transmembrane protein 1	-1.1	1.7	1.1
1427903_at	Phpt1	phosphohistidine phosphatase 1	-1.7	1.1	1.1
1419812_s_at	Ccdc56	coiled-coil domain containing 56	-1.6	1.1	1.0
1426187_a_at	Hax1	HCLS1 associated X-1	-1.6	1.1	1.0
1417653_at	Pvalb	parvalbumin	-2.6	1.0	1.0
1435522_a_at	2310016E02Rik	RIKEN cDNA 2310016E02 gene	-2.0	1.1	1.0
1428464_at	Ndufa3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3	-2.1	1.1	1.0
1416979_at	Pomp	proteasome maturation protein	-1.6	1.1	1.0
1424122_s_at	Commd1	COMM domain containing 1	-1.7	1.2	-1.0
1416277_a_at	Rplp1	ribosomal protein, large, P1	-1.6	1.1	-1.0
1450818_a_at	Ndufa7	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7 (B14.5a)	-1.5	1.1	-1.0
1452790_x_at	Ndufa3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3	-2.0	1.0	-1.0
1427102_at	Slfn4	schlafen 4	1.1	1.8	-1.0
1434391_at	Hnrnpu	Heterogeneous nuclear ribonucleoprotein U	-1.7	1.1	-1.0
1449044_at	Eef1e1	eukaryotic translation elongation factor 1 epsilon 1	-1.7	1.0	-1.1
1418083_at	0610009B22Rik	RIKEN cDNA 0610009B22 gene	-1.5	-1.0	-1.1
1442887_at	AI853363	expressed sequence AI853363	-1.7	-1.0	-1.2
1419562_at	Birc6	baculoviral IAP repeat-containing 6	-1.8	-1.2	-1.3
1453134_at	Pik3ca*	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	-1.7	-1.4	-1.3
1437947_x_at	Vdac1	voltage-dependent anion channel 1	-1.2	-1.7	-1.3
1422884_at	Snrpd3	small nuclear ribonucleoprotein D3	-1.7	1.5	-1.4
1428570_at	Ccnc	cyclin C	-1.5	-1.4	-1.4
1433664_at	Ube2q2	ubiquitin-conjugating enzyme E2Q (putative) 2	-1.3	-1.3	-1.5
1450770_at	3632451O06Rik	RIKEN cDNA 3632451O06 gene	-1.3	-1.4	-1.5
1417121_at	Gabra6	gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 6	-1.1	-1.3	-1.6
1433452_at	B630019K06Rik	RIKEN cDNA B630019K06 gene	-1.1	-1.5	-1.6

Supplemental Table 2. All differentially regulated transcripts identified during the prion time course. Fold change vs. control at three time points are shown here. * denotes transcripts that are differentially expressed during both prion disease and cuprizone treatment.

Probe Set ID	Gene Symbol	Gene Title	108 dpi	158 dpi	198 dpi	Cuprizone
Neuropeptide Signaling Pathway						
1421690_s_at	Agrp*	agouti related protein	1.3	1.3	1.7	N.C.
1452398_at	Plce1	phospholipase C, epsilon 1	N.C.	1.3	1.6	N.C.
Other						
1425964_x_at	Hspb1	heat shock protein 1	N.C.	1.3	2.6	N.C.
1455899_x_at	Socs3*	suppressor of cytokine signaling 3	N.C.	1.4	2.3	N.C.
1423555_a_at	Ifi44	interferon-induced protein 44	N.C.	2.0	2.0	N.C.
1416371_at	Apod	apolipoprotein D	N.C.	N.C.	2.0	N.C.
1454757_s_at	D12Ertd647e	DNA segment, Chr 12, ERATO Doi 647, expressed	N.C.	1.7	1.9	N.C.
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	N.C.	1.5	1.7	N.C.
1424118_a_at	Spc25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	N.C.	N.C.	1.6	N.C.
1415958_at	Slc2a4*	solute carrier family 2 (facilitated glucose transporter), member 4	N.C.	N.C.	1.6	N.C.
1437432_a_at	Trim12	tripartite motif-containing 12	N.C.	N.C.	1.6	N.C.
1460603_at	Samd9l	sterile alpha motif domain containing 9-like	N.C.	N.C.	1.6	N.C.
1449342_at	Ptplb	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	N.C.	1.4	1.5	N.C.
1456890_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	N.C.	1.3	1.5	N.C.

Supplemental Table 3. Annotated transcripts up-regulated during prion disease and unrelated to cuprizone-induced neuroinflammation. Of the seventeen transcripts that increased in expression over the course of prion disease and remained unchanged during cuprizone treatment, only fourteen were found to be annotated. * denotes transcripts whose protein products play a role in the adipocytokine signaling pathway. No change (N.C.) is classified as |1.0-1.2| fold change versus control.