

**Supplementary Table.**

Gene primers in the Qiagen Custom RT<sup>2</sup> Profiler PCR Array CAP10704R. Gene symbol, RefSeq number, gene name and Qiagen RT2 Catalog number.

<b>Gene Symbol</b>	<b>Ref Seq #</b>	<b>Official Full Name</b>	<b>RT2 Catalog Number</b>
Akt1	NM_033230	V-akt murine thymoma viral oncogene homolog 1	PPR45425
Arc	NM_019361	Activity-regulated cytoskeleton-associated protein	PPR44661
Arg1	NM_017134	Arginase, liver	PPR44521
Atf3	NM_012912	Activating transcription factor 3	PPR44403
Basp1	NM_022300	Brain abundant, membrane attached signal protein 1	PPR49015
Bax	NM_017059	Bcl2-associated X protein	PPR06496
Bcl2	NM_016993	B-cell CLL/lymphoma 2	PPR06577
Bdnf	NM_012513	Brain-derived neurotrophic factor	PPR45333
Camk2a	NM_012920	Calcium/calmodulin-dependent protein kinase II alpha	PPR56567
Casp8	NM_022277	Caspase 8	PPR06555
Cdc42	NM_171994	Cell division cycle 42 (GTP binding protein)	PPR06471
Cdk5	NM_080885	Cyclin-dependent kinase 5	PPR06389
Cfl1	NM_017147	Cofilin 1, non-muscle	PPR45477
Cntf	NM_013166	Ciliary neurotrophic factor	PPR43508
Cntfr	NM_001003929	Ciliary neurotrophic factor receptor	PPR50854
Creb1	NM_031017	CAMP responsive element binding protein 1	PPR52804
Crebbp	NM_133381	CREB binding protein	PPR56650
Cx3cr1	NM_133534	Chemokine (C-X3-C motif) receptor 1	PPR06709
Cyfp2	NM_001106996	Cytoplasmic FMR1 interacting protein 2	PPR49678
Dag1	XM_343483	Dystroglycan 1 (dystrophin-associated glycoprotein 1)	PPR48906
Dpysl3	NM_012934	Dihydropyrimidinase-like 3	PPR53205
Egfr	NM_031507	Epidermal growth factor receptor	PPR48960
Eif4e	NM_053974	Eukaryotic translation initiation factor 4E	PPR45341
Elk1	XM_001055949	ELK1, member of ETS oncogene family	PPR53876
Ep300	XM_576312	E1A binding protein p300	PPR50202
Fos	NM_022197	FBJ osteosarcoma oncogene	PPR55248
Gap43	NM_017195	Growth associated protein 43	PPR45124
Gda	NM_031776	Guanine deaminase	PPR47913
Gdnf	NM_019139	Glial cell derived neurotrophic factor	PPR50730
Grb2	NM_030846	Growth factor receptor bound protein 2	PPR43063
Gria1	NM_031608	Glutamate receptor, ionotropic, AMPA 1	PPR06792
Gria2	NM_017261	Glutamate receptor, ionotropic, AMPA 2	PPR06753
Grin1	NM_017010	Glutamate receptor, ionotropic, N-methyl D-aspartate 1	PPR06847
Gsk3b	NM_032080	Glycogen synthase kinase 3 beta	PPR44848
Hras	XM_001062236	Harvey rat sarcoma virus oncogene	PPR54834
Il6st	NM_001008725	Interleukin 6 signal transducer	PPR06402
Itgb1	NM_017022	Integrin, beta 1	PPR48046
Itfka	NM_031045	Inositol 1,4,5-trisphosphate 3-kinase A	PPR44533
Jak1	NM_053466	Janus kinase 1	PPR52820
Jak2	NM_031514	Janus kinase 2	PPR46731
Jun	NM_021835	Jun oncogene	PPR53221
Klf4	NM_053713	Kruppel-like factor 4 (gut)	PPR43919
Klf6	NM_031642	Kruppel-like factor 6	PPR47080
Klf7	NM_001108800	Kruppel-like factor 7 (ubiquitous)	PPR47723
Klf9	NM_057211	Kruppel-like factor 9	PPR46842
Lif	NM_022196	Leukemia inhibitory factor	PPR06674
Lifr	NM_031048	Leukemia inhibitory factor receptor alpha	PPR45926

Limk1	NM_031727	LIM domain kinase 1	PPR45325
Limk2	NM_024135	LIM domain kinase 2	PPR45170
Maged1	NM_053409	Melanoma antigen, family D, 1	PPR50829
Map2k1	NM_031643	Mitogen activated protein kinase kinase 1	PPR43465
Map2k2	NM_133283	Mitogen activated protein kinase kinase 2	PPR52378
Mapk1	NM_053842	Mitogen activated protein kinase 1	PPR48780
Mapk3	NM_017347	Mitogen activated protein kinase 3	PPR42793
Mapk8	XM_341399	Mitogen-activated protein kinase 8	PPR43333
Mapk9	NM_017322	Mitogen-activated protein kinase 9	PPR44553
Mapk10	NM_012806	Mitogen activated protein kinase 10	PPR44554
Mapk14	NM_031020	Mitogen activated protein kinase 14	PPR52703
Mtor	NM_019906	Mechanistic target of rapamycin (serine/threonine kinase) Nerve growth factor receptor (TNFR superfamily, member 16)	PPR45168
Ngfr	NM_012610		PPR45155
Nos1	NM_052799	Nitric oxide synthase 1, neuronal	PPR44930
Nrp1	NM_145098	Neuropilin 1	PPR45065
Ntrk1	NM_021589	Neurotrophic tyrosine kinase, receptor, type 1	PPR49157
Ntrk2	NM_012731	Neurotrophic tyrosine kinase, receptor, type 2	PPR45322
Ntrk3	NM_019248	Neurotrophic tyrosine kinase, receptor, type 3	PPR44584
Ocm	NM_012995	Oncomodulin	PPR44433
Pick1	NM_053460	Protein interacting with PRKCA 1	PPR47907
Plcg1	NM_013187	Phospholipase C, gamma 1	PPR45320
Plcg2	NM_017168	Phospholipase C, gamma 2	PPR44457
Pten	NM_031606	Phosphatase and tensin homolog	PPR47268
Ptpn11	NM_013088	Protein tyrosine phosphatase, non-receptor type 11	PPR53533
Raf1	NM_012639	V-raf-leukemia viral oncogene 1	PPR48609
Rac1	NM_134366	Ras-related C3 botulinum toxin substrate 1	PPR48291
Rapgef1	XM_216018	Rap guanine nucleotide exchange factor (GEF) 1 V-rel reticuloendotheliosis viral oncogene homolog A (avian)	PPR52542
Rela	NM_199267		PPR46841
Rhoa	NM_057132	Ras homolog gene family, member A	PPR56555
Rock1	NM_031098	Rho-associated coiled-coil containing protein kinase 1	PPR52792
Stk24	NM_001127494	Serine/threonine kinase 24 (STE20 homolog, yeast)	PPR55923
Socs1	NM_145879	Suppressor of cytokine signaling 1	PPR52395
Socs2	NM_058208	Suppressor of cytokine signaling 2	PPR06601
Socs3	NM_053565	Suppressor of cytokine signaling 3	PPR06602
Sort1	NM_031767	Sortilin 1	PPR45348
Stat1	NM_032612	Signal transducer and activator of transcription 1	PPR48601
Stat2	NM_001011905	Signal transducer and activator of transcription 2	PPR47800
Stat3	NM_012747	Signal transducer and activator of transcription 3	PPR44745
Tgfb1	NM_021578	Transforming growth factor, beta 1	PPR06430
Tnf	NM_012675	Tumor necrosis factor (TNF superfamily, member 2)	PPR06411
Tnfrsf19	NM_001044229	Tumor necrosis factor receptor superfamily, member 19	PPR49999
Tp53	NM_030989	Tumor protein p53	PPR06553
Tsc2	NM_012680	Tuberous sclerosis 2	PPR43470
B2m	NM_012512	Beta-2 microglobulin	PPR42607
Rpl13a	NM_173340	Ribosomal protein L13A	PPR53027
Tfrc	NM_022712	Transferrin receptor	PPR06732
RGDC	U26919	Rat Genomic DNA Contamination	PPR63338
RTC	SA_00104	Reverse Transcription Control	PPX63340
PPC	SA_00103	Positive PCR Control	PPX63339