

Table S1. Primers for the real-time RTPCR amplification of selected mRNAs from developmentally relevant genes

Sequence Name	Sequence Notes	Sequence	Tm
ACC NM_007424 Forward	Aggrecan(Acan)	TCC AGA ACC TTC GCT CCA ATG ACT	60.1
ACC NM_007424 Reverse		ATC AAA GTC CAG GGT GTA GCG TGT	60.3
ACC NM_013467 Forward	Aldehyde dehydrogenase family 1, subfamily A1(Aldh1a1)	GGG AAA GAG CCC TTG CAT TGT GTT	60.2
ACC NM_013467 Reverse		GCG ACA CAA CAT TGG CCT TGA TGA	60.3
ACC NM_009656 Forward	Aldehyde dehydrogenase 2, mitochondrial(Aldh2)	AAC AAG GAG GAC GTA GAC AAG GCA	60.0
ACC NM_009656 Reverse		TGA GAT CCG CCA ATC GGT ACA ACA	60.3
ACC NM_011920 Forward	ATP-binding cassette, sub-family G(WHITE), member 2(Abcg2)	TTT GGA CTC AAG CAC AGC GAA TGC	60.4
ACC NM_011920 Reverse		AGC CAG TAA GGT GAG GCT GTC AAA	60.4
ACC NM_009608 Forward	Actin,alpha,cardiac(Actc1)	ACC ATG TAC CCT GGT ATT GCC GAT	60.2
ACC NM_009608 Reverse		ATG GGC CTG CCT CAT CAT ACT CTT	60.1
ACC NM_019655 Forward	Adenosine deaminase, RNA-specific(Adar)	GCC AAA GCC AAA GAC AGT GGT CAA	60.3
ACC NM_019655 Reverse		AAC TGG GCT CTT CCC AGA GAA CAA	60.2
ACC NM_009733 Forward	Axin 1 (Axin 1)	AGA AAC ACA TGG TCA TGC CAA GCC	60.2
ACC NM_009733 Reverse		TCC CAG ATT CAG CCT TCT TGG TGT	60.3
ACC NM_007541 Forward	Bone gamma carboxyglutamate otein 1(Bglap1)	TCA TGT CCA AGC AGG AGG GCA ATA	60.4
ACC NM_007541 Reverse		TGA TAG CTC GTC ACA AGC AGG GTT	60.3
ACC NM_009755 Forward	Bone morphogenetic otein 1 (Bmp1)	AAC CGC ATG TTC TTG CGC TTC TAC	60.1
ACC NM_009755 Reverse		TAG TTG TTA TCG CCG AAC TGG GCA	60.5
ACC NM_009828 Forward	Cyclin A2 (Ccna2)	TAC CTG CCT TCA CTC ATT GCT GGA	60.2
ACC NM_009828 Reverse		ATT GAC TGT TGG GCA TGT TGT GGC	60.6
ACC NM_007631 Forward	Cyclin D1 (Ccmd1)	GCT GCA AAT GGA ACT GCT TCT GGT	60.4
ACC NM_007631 Reverse		TAC CAT GGA GGG TGG GTT GGA AAT	60.3
ACC NM_009829 Forward	Cyclin D2 (Ccmd2)	ATC TGT GGG CTT CAG CAG GAT GAT	60.4
ACC NM_009829 Reverse		TTC AGC AGC AGA GCT TCG ATT TGC	60.2
ACC NM_007633 Forward	Cyclin E1 (Ccne1)	TGG ATT TGC TGG ACA AAG CCC AAG	60.2
ACC NM_007633 Reverse		AGG CAA TGG CAG GTT TGG TCA TTC	60.3
ACC NM_007462 Forward	Adenomatosis polyposis coli(Apc)	TGC CTC TGA GTG CAT CAC TCT TGT	60.3
ACC NM_007462 Reverse		AGC CTC TTA CTG CCC ATC GAA ACT	60.2
ACC NM_008554 Forward	Achaete-scute complex homolog 2 (Drosophila)(Ascl2)	ACC TGC TTC TAG CCC AAG AAA CCT	60.3
ACC NM_008554 Reverse		TGC AAG GTC CGG AAG ATG GAA GAT	60.3
ACC NM_007553 Forward	Bone morphogenetic otein 2 (Bmp2)	TGT GGG CCC TCA TAA AGA AGC AGA	60.3
ACC NM_007553 Reverse		AGC AAG CTG ACA GGT CAG AGA ACA	60.2

ACC NM_173404	Forward	Bone morphogenetic protein 3 (Bmp3)	ACG CTG CAA TTT GAT GAG CAG ACC	60.3
ACC NM_173404	Reverse		TCC AGC CGA TAT CAG CAA AGT CCA	60.2
ACC NM_009771	Forward	Beta-transducin repeat containing protein (Btrc)	TCG AAT GCA CCA GAG ACC TCC AAT	60.2
ACC NM_009771	Reverse		GCC AGC AGC AAA GCT CAC CTT TAT	60.2
ACC NM_009844	Forward	CD19 antigen (Cd19)	ATT GTC TCC GAG GAA ACC TGA CCA	59.9
ACC NM_009844	Reverse		ATC CAC CAG TTC TCA ACA GCC AGA	60.2
ACC NM_013487	Forward	CD3 antigen, delta polypeptide(Cd3d)	AAA CAC TCA ACT TGG GCA AAG GCG	60.6
ACC NM_013487	Reverse		TAG CTC CAC ACA GTT CTG GCA CAT	60.3
ACC NM_013488	Forward	CD4 antigen (Cd4)	GTT CGC CTT CGC AGT TTG ATC GTT	60.2
ACC NM_013488	Reverse		ACC CGG ACT GAA GGT CAC TTT GAA	60.3
ACC NM_009851	Forward	CD44 antigen (Cd44)	CCC AGT GGA AGC CAA ACC ATT CAA	60.0
ACC NM_009851	Reverse		TGA GCA CTG GTG CTG ATT CTG TCT	60.3
ACC NM_001081110	Forward	CD8 antigen, alpha chain (Cd8a)	TCC TGG GAT CAC CAG CAT GCT TTA	60.4
ACC NM_001081110	Reverse		TTT GAC AGT CAG CGT CTT CCT CCA	60.2
ACC NM_009858	Forward	CD8 antigen, beta chain 1 (Cd8b1)	AAA TGA TCA GCG CCC ACA ACA CTG	60.3
ACC NM_009858	Reverse		AGA GCT TGC AGC AGT TCA AAG CAG	60.2
ACC NM_007659	Forward	Cell division cycle 2 homolog A (S.pombe) (Cdc2a)	TTT CCA CGG CGA CTC AGA GAT TGA	60.2
ACC NM_007659	Reverse		TCT GGC CAC ACT TCG TTG TTA GGA	60.2
ACC NM_009861	Forward	Cell division cycle 42 homolog (S.cerevisiae) (Cdc42)	TGC CCT CAC ACA GAA AGG CCT AAA	60.6
ACC NM_009861	Reverse		TCT GGA GAT GCG TTC ATA GCA GCA	60.3
ACC NM_009864	Forward	Cadherin 1 (Cdh1)	TGA CTC GAA ATG ATG TGG CTC CCA	60.4
ACC NM_009864	Reverse		ACT GCC CTC GTA ATC GAA CAC CAA	60.4
ACC NM_007664	Forward	Cadherin 2 (Cdh2)	AGA CCT GAG TTT CTG CAC CAG GTT	60.3
ACC NM_007664	Reverse		GGG CAT TTG GAT CAT CCG CAT CAA	60.2
ACC NM_007742	Forward	Collagen, type I , alpha 1(Col1a1)	TGG TTT GGA GAG AGC ATG ACC GAT	60.2
ACC NM_007742	Reverse		TAG GCT ACG CTG TTC TTG CAG TGA	60.2
ACC NM_031163	Forward	Collagen, type II , alpha 1(Col2a1)	ACA TAG GGC CTG TCT GCT TCT TGT	60.3
ACC NM_031163	Reverse		TGA CTG CGG TTG GAA AGT GTT TGG	60.2
ACC NM_007740	Forward	Collagen, type IX , alpha 1(Col9a1)	AGA TTG ATG CGG ATG GCT TTG CAG	60.2
ACC NM_007740	Reverse		TGG CAG CTC ATG ACA GGT TTC TCT	60.4
ACC NM_009818	Forward	Catenin(cadherin associated protein),alpha 1(Ctnna1)	AGC GCT GTG TCC TCA GGT TAT CAA	60.3
ACC NM_009818	Reverse		ACA GCA TCT GTG AGA ACA CGG ACT	60.2
ACC NM_021704	Forward	Chemokine(C-X-C motif) ligand 12 (Cxcl12)	TGA GTC AAC ACA AGA TCC GGC AGA	60.2
ACC NM_021704	Reverse		AGC ACA GCT TCA GGG ATC ACT TCT	60.2

ACC NM_007857	Forward	Desert hedgehog (Dhh)	ACC ACC TTC ACT CAC CTC CAA AGA	59.9
ACC NM_007857	Reverse		AGA GGG TTT GGA AGA TCG TGC TGA	60.1
ACC NM_007865	Forward	Delta-like 1(Drosophila) (Dll1)	ACG GAG AAG GTT GCT CTG TGT TCT	60.2
ACC NM_007865	Reverse		TCA TCA CAC CCT GGC AGA CAG ATT	60.2
ACC NM_007866	Forward	Delta-like 3(Drosophila) (Dll3)	AGT TCG TCG GCT GAC TGG AAT CAT	60.3
ACC NM_007866	Reverse		AGG ATC AGG CCT CTC GTG CAT AAA	60.0
ACC NM_008052	Forward	Deltex 1 homolog (Drosophila) (Dtx1)	TAC CCA ACA ATG AGA AGG GCC GAA	60.4
ACC NM_008052	Reverse		ACT CCG TCT TGT GGT GAA TCT CGT	59.9
ACC NM_023742	Forward	Deltex 2 homolog (Drosophila) (Dtx2)	GGC CAT GTA TTG CAA CGG GAA CAA	60.4
ACC NM_023742	Reverse		TGG GAG GGA CAT TTG GAA CCT GAA	60.3
ACC NM_010091	Forward	Dishevelled, dsh homolog 1(Drosophila) (Dvl1)	TCT CAA CAT GGA GAG GCA CCA CTT	60.2
ACC NM_010091	Reverse		TTG ACA TCG TTC ACC TGC AGC AAC	60.1
ACC NM_177821	Forward	E1A binding otein p300 (Ep300)	TTG GCT CAG TCT GGG TCA CTC AAT	60.2
ACC NM_177821	Reverse		TGG ATG GAG CCA AAG GCA TGT TTG	60.3
ACC NM_010197	Forward	Fibroblast growth factor 1 (Fgf1)	TGA AGG TTG CTC AGA CTT CAC CCT	60.1
ACC NM_010197	Reverse		GGT GCC TTG AAA CCA TGC TTC ACT	60.2
ACC NM_008006	Forward	Fibroblast growth factor 2 (Fgf2)	AAG AGC GAC CCA CAC GTC AAA CTA	60.3
ACC NM_008006	Reverse		TTC ATA GCA AGG TAC CGG TTG GCA	60.6
ACC NM_008007	Forward	Fibroblast growth factor 3 (Fgf3)	TGC TTC GGA TCA CTA CAA CGC AGA	60.3
ACC NM_008007	Reverse		ATT CAC CGA CAC GTA CCA AGG TCT	60.0
ACC NM_010202	Forward	Fibroblast growth factor 4 (Fgf4)	TGC CCT GTT CTG ATG GGA TTC TCT	59.9
ACC NM_010202	Reverse		AAG GGA GCT AGC TGG CTG AAG AAA	60.3
ACC NM_010206	Forward	Fibroblast growth factor receptor 1 (Fgfr1)	AAA CCC AAC CGT GTG ACC AAA GTG	60.2
ACC NM_010206	Reverse		TTG GAG GCG TAC TCC ACA ATG ACA	60.3
ACC NM_010446	Forward	Forkhead box A2 (Foxa2)	AAG TAT GCT GGG AGC CGT GAA GAT	60.3
ACC NM_010446	Reverse		CGC GGA CAT GCT CAT GTA TGT GTT	59.8
ACC NM_008043	Forward	Frequently rearranged in advanced T-cell lymphomas(Frat1)	TGG GTA ATG GAA GGG TAT GGC GAA	60.2
ACC NM_008043	Reverse		ACA CCC AGG AAA CAG TGA CCT TGA	60.3
ACC NM_021457	Forward	Frizzled homolog 1 (Drosophila) (Fzd1)	AAC CGA CCG ATA GCG AAC TTT GGA	60.4
ACC NM_021457	Reverse		TGA TGA CCA GAC CCA GAG CAA GTT	60.2
ACC NM_020004	Forward	GCN5 general control of amino acid synthesis-like 2 (yeast)(Gcn5l2)	TGG TCA ATG AGG TCA TGC TGA CGA	60.3
ACC NM_020004	Reverse		ACT CGA TGA TTC CTC GCC GTT CTT	60.2
ACC NM_019506	Forward	Growth differentiation factor 2 (Gdf2)	TGC ACC CAA GGA ATA TGA CGC CTA	60.3
ACC NM_019506	Reverse		CAT GTT TGG TGG GTG TCA CGT CAT	59.8

ACC NM_008108	Forward	Growth differentiation factor 3 (Gdf3)	TTA TGC TAC GTG AAG GAG CTG GGT	59.9
ACC NM_008108	Reverse		AGA CAG GAG CCA TCT TGG AAA GGT	60.1
ACC NM_010288	Forward	Gap junction protein, alpha 1(Gja1)	TAC TTC AAT GGC TGC TCC TCA CCA	60.2
ACC NM_010288	Reverse		GCT CGC TGG CTT GCT TGT TGT AAT	60.4
ACC NM_008124	Forward	Gap junction protein, beta 1(Gjb1)	ACT CCA TCA AAC CTT CCC TCC CTT	60.0
ACC NM_008124	Reverse		GGC AGA AAG AAT TGC CCA CAC CAT	60.3
ACC NM_008228	Forward	Histone deacetylase 1 (Hdac1)	ATT CCT GCG TTC TAT TCG CCC AGA	60.4
ACC NM_008228	Reverse		AAC AAG CCA TCA AAC ACC GGA CAG	60.0
ACC NM_008229	Forward	Histone deacetylase 2 (Hdac2)	TAC AAC AGA TCG CGT GAT GAC CGT	60.3
ACC NM_008229	Reverse		TCC CTT TCC AGC ACC AAT ATC CCT	60.1
ACC NM_010481	Forward	Heat shock protein 9 (Hspa9)	GAA GCA ATC AAG GGT GCA GTG GTT	60.2
ACC NM_010481	Reverse		GAC CTT TGC TTG TTT GCC CTC CAT	60.2
ACC NM_010512	Forward	Insulin-like growth factor 1 (Igf1)	TGG TGG ATG CTC TTC AGT TCG TGT	60.4
ACC NM_010512	Reverse		TCA TCC ACA ATG CCT GTC TGA GGT	60.2
ACC NM_008814	Forward	Pancreatic and duodenal homeobox 1(Pdx1)	ACC TAG GCG TCG CAC AAG AAG AAA	60.6
ACC NM_008814	Reverse		GGC ATC AGA AGC AGC CTC AAA GTT	60.0
ACC NM_021459	Forward	ISL1 transcription factor,LIM/homedomain (Isl1)	GCA AGG ACA AGA AAC GCA GCA TCA	60.4
ACC NM_021459	Reverse		ACT GGG TTA GCC TGT AAA CCA CCA	60.2
ACC NM_013822	Forward	Jagged 1 (Jag1)	ACT GGC ACT GGT AGT TTC TGT GGT	60.3
ACC NM_013822	Reverse		ATG GAC ACC AGG GCA CAT TCA CTA	60.3
ACC NM_008469	Forward	Keratin 15 (Krt15)	TCA ATG TGG AAA TGG ACG CAG CAC	60.3
ACC NM_008469	Reverse		TGT TAG ACG CCA CCT CCT TGT TCA	60.2
ACC NM_008604	Forward	Membrane metallo endopeptidase (Mme)	ATT GAT AGC AGA GGC GGA CAA CCT	60.3
ACC NM_008604	Reverse		TCT CAG CTG TCC AAG AAG TGC CAT	60.4
ACC NM_010835	Forward	Homeobox, msh-like 1 (Msx1)	TCC TGG TTG TCG CTT CCT AAA CCT	60.1
ACC NM_010835	Reverse		TCT TGG CCT CTG CAC CCT TAG TTT	60.5
ACC NM_010849	Forward	Myelocytomatosis oncogene (Myc)	ATT TCC TTT GGG CGT TGG AAA CCC	60.5
ACC NM_010849	Reverse		TCG TCG CAG ATG AAA TAG GGC TGT	60.3
ACC NM_010866	Forward	Myogenic differentiation 1 (Myod1)	CAG GCA TGC TGT GTA GTG CAA CAA	60.2
ACC NM_010866	Reverse		TTA TTT CCA ACA CCT GAG CGA GCG	59.5
ACC NM_026370	Forward	MYST histone acetyltransferase 1 (Myst1)	AAG CTA CTG GTC ATG GGT CTT GCT	60.3
ACC NM_026370	Reverse		TGT CAT TCT GGG TGA TGC TGG TCA	60.4
ACC NM_177619	Forward	MYST histone acetyltransferase 2 (Myst2)	TCC AAA CAT GGT TGC CAC CAA AGG	60.4
ACC NM_177619	Reverse		TGA GTG ACT GCG AGA TGA AAC CCA	60.2

ACC NM_010875	Forward	Neural cell adhesion molecule 1 (Ncam1)	AGC AGT GAA CCG TAT TGG ACA GGA	60.1
ACC NM_010875	Reverse		TAT GGT TCC ACC CGG TCA ATG GAT	60.2
ACC NM_009718	Forward	Neurogenin 2 (Neurog2)	TGT AAG GGT TGA ATG CAA GCG TGG	60.1
ACC NM_009718	Reverse		ATG CAT GAA GCA ATC CTC CCT CCT	60.5
ACC NM_008714	Forward	Notch gene homolog 1(Drosophila) (Notch1)	TCT GCT TAT GCC TCA AGG GAA CCA	60.3
ACC NM_008714	Reverse		AAT CTT GTC CAG ACA GGT GCC AGA	60.2
ACC NM_010928	Forward	Notch gene homolog 2(Drosophila) (Notch2)	TCA ATG AGT GCA GCT CTA ACC CGT	60.3
ACC NM_010928	Reverse		AGG TTC ACC AGG GTC TGA CAG TTT	60.1
ACC NM_010949	Forward	Numb gene homolog (Drosophila) (Numb)	ACT CGG CGA TGG ATC TGT CAT TGT	60.3
ACC NM_010949	Reverse		TTC TCC CGC TTC TGT TTA CGC TCT	60.2
ACC NM_011014	Forward	Opioid receptor, sigma 1 (O s1)	AGG AGC TGC AGT GGG TAT TTG TGA	60.4
ACC NM_011014	Reverse		AAG GTG CCA GAG ATG ATG GTG TCA	60.2
ACC NM_019695	Forward	Par-6 (partitioning defective 6,) homolog alpha (C.elegans) (Pard6a)	AGA TTT CCG CCA GGT GTC TTC AGT	60.3
ACC NM_019695	Reverse		TGC CAT CTC GAA TGT AGA AGC CCA	60.2
ACC NM_011145	Forward	Peroxisome oliferator activator receptor delta (Ppard)	GCC CAA GTT CGA GTT TGC TGT CAA	60.1
ACC NM_011145	Reverse		ATT CTA GAG CCC GCA GAA TGG TGT	60.3
ACC NM_009115	Forward	S100 otein, beta polypeptide, neural (S100b)	TGC CCT CAT TGA TGT CTT CCA CCA	60.5
ACC NM_009115	Reverse		TCC ACC ACT TCC TGC TCC TTG ATT	60.3
ACC NM_009233	Forward	SRY-box containing gene 1(Sox1)	TCA AGG AAG CAA TCC TGA CCC AGA	60.0
ACC NM_009233	Reverse		GTG TGT GTG TGT GTG TGT GTG TGT	60.1
ACC NM_009029	Forward	Retinoblastoma 1 (Rb1)	GGA ATC CCT TGC ATG GCT TTC AGA	59.7
ACC NM_009029	Reverse		TGA GAG GAC AAG CAG GTT CAA GGT	60.1
ACC NM_011146	Forward	Peroxisome oliferator activator receptor gamma (Pparg)	AGG GCG ATC TTG ACA GGA AAG ACA	60.1
ACC NM_011146	Reverse		AAA TTC GGA TGG CCA CCT CTT TGC	60.3
ACC NM_011443	Forward	SRY-box containing gene 2(Sox2)	AAA GGA GAG AAG TTT GGA GCC CGA	60.2
ACC NM_011443	Reverse		GGG CGA AGT GCA ATT GGG ATG AAA	60.4
ACC NM_009309	Forward	Brachyury(T)	TGC TGC AGT CCC ATG ATA ACT GGT	60.5
ACC NM_009309	Reverse		ACC ATT GCT CAC AGA CCA GAG ACT	59.9
ACC NM_009354	Forward	Telomerase reverse transcriptase (Tert)	TTT GGT TGC CCA ATG CCT AGT GTG	60.2
ACC NM_009354	Reverse		ATG ACA CCT GGT GGA AGG AAA GGT	60.3
ACC NM_023279	Forward	Tubulin, beta 3 (Tubb3)	TTC TGG TGG ACT TGG AAC CTG GAA	60.2
ACC NM_023279	Reverse		TCA CAC TCT TTC CGC ACG ACA TCT	60.3
ACC NM_021279	Forward	Wingless-related MMTV integration site 1 (Wnt1)	AGC TAA GTG GGA AAG GAG GTT GCT	60.3
ACC NM_021279	Reverse		TGG TTC ACA GCT GTT CAA TGG CTC	59.9

ACC NM_010368	Forward	Glucuronidase, beta (Gusb)	TTG CCA TCA ACA ACA CAC TGA CCC	60.1
ACC NM_010368	Reverse		ATC GAT GCA GTC CCG CAT AGT TGA	60.3
ACC NM_013556	Forward	Hypoxanthine guanine phosphoribosyl transferase 1(H t1)	ATT AGC AGG TGT TCT AGT CCT GTG	60.2
ACC NM_013556	Reverse		GC	59.4
ACC NM_008302	Forward	Heat shock otein 90kDa alpha(cytosolic), class B member1(Hsp90ab1)	GGG ACG CAG CAA CTG ACA TTT CTA	60.2
ACC NM_008302	Reverse		TTT CAG GCA GAA ATT GCC CAG CTC	60.1
ACC NM_008084	Forward	Glyceraldehyde-3-phosphate dehydrogenase(Gapdh)	TCA GCT CTT TCC CAC TGT CCA ACT	60.3
ACC NM_008084	Reverse		TCA ACA GCA ACT CCC ACT CTT CCA	60.3
ACC NM_007393	Forward	Actin, beta, cytoplasmic (Actb)	ACC CTG TTG CTG TAG CCG TAT TCA	60.2
ACC NM_007393	Reverse		TCT TGG GTA TGG AAT CCT GTG GCA	60.2
ACC NM_013633	Forward	Oct-4 Pou5f1. Pou domain class 5 transcription factor	TCT CCT TCT GCA TCC TGT CAG CAA	58.5
ACC NM_013633	Reverse		GGC GTT CTC TTT GGA AAG GTG TTC	53.9
ACC NM_028016	Forward	Nanog homeobox	CTC GAA CCA CAT CCT TCT CT	59.9
ACC NM_028016	Reverse		AGG GTC TGC TAC TGA GAT GCT CTG	61.0
ACC NM_010856	Forward	α -Myosin heavy chain, cardiac muscle	CAA CCA CTG GTT TTT CTG CCA CCG	57.0
ACC NM_010856	Reverse		CTG CTG GAG AGG TTA TTC CTC G	64.1
ACC NM_080728	Forward	β -Myosin heavy chain, cardiac muscle	GGA AGA GTG AGC GGC GCA TCA	65.4
ACC NM_080728	Reverse		AGG	60.6
ACC NM_008700	Forward	Nkx 2.5; NK2 transcription factor related locus 5	TGC AAA GGC TCC AGG TCT GAG GGC	65.6
ACC NM_008700	Reverse		GCC AAC ACC AAC CTG TCC AAG TTC	59.9
ACC NM_008700	Forward		CGA CGG AAG CCA CGC GTG CT	
ACC NM_008700	Reverse		CCG CTG TCG CTT GCA CTT G	