

Supplemental Table 1. Forward and reverse primers of genes analyzed using standard real-time PCR.

Symbol	Gene Name	Marker of	Forward Sequence (5' to 3')	Reverse Sequence (5' to 3')	Genebank Accession Number
OCT4	POU5F1	Pluripotency	CCGTGTGAGGTGGAGTCTGGAG	GCGATGTGAGTGATCTGCTGTAGG	NM_013633
NES	Nestin	Ectoderm	GGAGAAGCAGGGTCTACAG	AGCCACTTCCAGACTAAGG	NM_016701
T-BRACHY	T, Brachyury	Mesoderm	CACACCACTGACGCACAC	GAGGCTATGAGGAGGCTTTG	NM_009309
AFP	Alpha-fetoprotein	Endoderm	CACACCCGCTTCCCTCATCC	TTCTTCTCCGTCACGCACTGG	NM_007423
ACTA1	Alpha-actin 1	Skeletal actin microfilament	CACCCAGGGCCAGAGTCA	TCTCGTCTTCGTCGCACATG	NM_009606
ACTA2	Alpha-actin 2	Smooth muscle actin microfilament	TCCCTGGAGAAGAGCTACGAACT	AAGCGTTTCGTTTCCAATGGT	NM_007392
KRT8	Keratin 8	Intermediate filament	TGGTGTCGGAGTCTTCTGATGT	CAGGCTGGCAAGGACTTCA	NM_031170
VIM	Vimentin	Intermediate filament	GAGAGAGGAAGCCGAAAGCA	GCCAGAGAAGCATTGTCAACATC	NM_011701
LMNA	Lamin A/C	Intermediate filament	CGCAGCATGCTCGCACTA	ACGAACTTTCCTCTTCATCGA	NM_001002011
TUBA1B	Tubulin alpha-1B chain	Microtubule	CGCCTTCTAACCCGTTGCT	TGGCCAACGTGGATGGA	NM_011654

Supplemental Table 2. Genes analyzed using the Mouse Embryonic Stem Cell RT2 Profiler™ PCR Array.

Symbol	Description	GenBank Accession Number
Afp	Alpha fetoprotein	NM_007423
Bxdc2	Brix domain containing 2	NM_026396
Cd34	CD34 antigen	NM_133654
Cd9	CD9 antigen	NM_007657
Cdh5	Cadherin 5	NM_009868
Cdx2	Caudal type homeo box 2	NM_007673
Col1a1	Collagen, type I, alpha 1	NM_007742
Comm3	COMM domain containing 3	NM_147778
Crabp2	Cellular retinoic acid binding protein II	NM_007759
Ddx4	DEAD (Asp-Glu-Ala-Asp) box polypeptide 4	NM_010029
Des	Desmin	NM_010043
Diap2	Diaphanous homolog 2 (Drosophila)	NM_017398
Dnmt3b	DNA methyltransferase 3B	NM_010068
EdnrB	Endothelin receptor type B	NM_007904
Eomes	Eomesodermin homolog (Xenopus laevis)	NM_010136
Fgf4	Fibroblast growth factor 4	NM_010202
Fgf5	Fibroblast growth factor 5	NM_010203
Fli1	FMS-like tyrosine kinase 1	NM_010228
Fn1	Fibronectin 1	NM_010233
Foxa2	Forkhead box A2	NM_010446
Foxd3	Forkhead box D3	NM_010425
Gabbr3	Gamma-aminobutyric acid (GABA) A receptor, subunit beta 3	NM_008071
Gal	Galanin	NM_010253
Gata4	GATA binding protein 4	NM_008092
Gata6	GATA binding protein 6	NM_010258
Gbx2	Gastrulation brain homeobox 2	NM_010262
Gcg	Glucagon	NM_008100
Gcm1	Glial cells missing homolog 1 (Drosophila)	NM_008103
Gdf3	Growth differentiation factor 3	NM_008108
Grb7	Growth factor receptor bound protein 7	NM_010346
Hba-x	Hemoglobin X, alpha-like embryonic chain in Hba complex	NM_010405
Hbb-y	Hemoglobin Y, beta-like embryonic chain	NM_008221
Hck	Hemopoietic cell kinase	NM_010407
Iapp	Islet amyloid polypeptide	NM_010491
Ifitm1	Interferon induced transmembrane protein 1	NM_026820
Ifitm2	Interferon induced transmembrane protein 2	NM_030694
Igf2bp2	Insulin-like growth factor 2 mRNA binding protein 2	NM_183029
Il6st	Interleukin 6 signal transducer	NM_010560
Ins2	Insulin II	NM_008387
Kit	Kit oncogene	NM_021099
Krt1	Keratin 1	NM_008473
Lama1	Laminin, alpha 1	NM_008480
Lamb1-1	Laminin B1 subunit 1	NM_008482
Lamc1	Laminin, gamma 1	NM_010683
Lefty1	Left right determination factor 1	NM_010094
Lefty2	Left-right determination factor 2	NM_177099
Lifr	Leukemia inhibitory factor receptor	NM_013584
Lin28	Lin-28 homolog (C. elegans)	NM_145833
Myf5	Myogenic factor 5	NM_008656
Myod1	Myogenic differentiation 1	NM_010866
Nanog	Nanog homeobox	NM_028016
Nes	Nestin	NM_016701
Neurod1	Neurogenic differentiation 1	NM_010894
Nodal	Nodal	NM_013611
Nog	Noggin	NM_008711
Nr5a2	Nuclear receptor subfamily 5, group A, member 2	NM_030676
Nr6a1	Nuclear receptor subfamily 6, group A, member 1	NM_010264
Numb	Numb gene homolog (Drosophila)	NM_010949
Olig2	Oligodendrocyte transcription factor 2	NM_016967
Pax4	Paired box gene 4	NM_011038
Pax6	Paired box gene 6	NM_013627
Pdx1	Pancreatic and duodenal homeobox 1	NM_008814
Pecam1	Platelet/endothelial cell adhesion molecule 1	NM_008816
Podxl	Podocalyxin-like	NM_013723
Pou5f1	POU domain, class 5, transcription factor 1	NM_013633
Pten	Phosphatase and tensin homolog	NM_008960
Ptf1a	Pancreas specific transcription factor, 1a	NM_018809
Rest	RE1-silencing transcription factor	NM_011263
Runx2	Runt related transcription factor 2	NM_009820
Sema3a	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	NM_009152
Serpina1a	Serine (or cysteine) peptidase inhibitor, clade A, member 1a	NM_009243
Sfrp2	Secreted frizzled-related protein 2	NM_009144
Sox17	SRY-box containing gene 17	NM_011441
Sox2	SRY-box containing gene 2	NM_011443
Sst	Somatostatin	NM_009215
Sycp3	Synaptonemal complex protein 3	NM_011517
T	Brachyury	NM_009309
Tat	Tyrosine aminotransferase	NM_146214
Tcfcp2l1	Transcription factor CP2-like 1	NM_023755
TdGF1	Teratocarcinoma-derived growth factor 1	NM_011562
Tert	Telomerase reverse transcriptase	NM_009354
Ulf1	Undifferentiated embryonic cell transcription factor 1	NM_009482
Wt1	Wilms tumor 1 homolog	NM_144783
Zfp42	Zinc finger protein 42	NM_009556
HOUSEKEEPING GENES & INTERNAL CONTROLS		
Gusb	Glucuronidase, beta	NM_010368
Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1	NM_013556
Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1	NM_008302
Gapdh	Glyceraldehyde-3-phosphate dehydrogenase	NM_008084
Actb	Actin, beta	NM_007393
MGDC	Mouse Genomic DNA Contamination	SA_00106
RTC	Reverse Transcription Control	SA_00104
RTC	Reverse Transcription Control	SA_00104
RTC	Reverse Transcription Control	SA_00104
PPC	Positive PCR Control	SA_00103
PPC	Positive PCR Control	SA_00103
PPC	Positive PCR Control	SA_00103