

Online Supplementary Material

Shi, Y., et al. (2012) Analysis of differentiation potentials and gene expression profiles of mesenchymal stem cells derived from periodontal ligament and Wharton's jelly of the umbilical cord. *Cells Tissues Organs*, DOI: 10.1159/000 343740.

Supplementary Table1. Primers sequences used in the Real-time RT-PCR

Gene Symbol	Primer Sequences (5'--3')	Accession Number	Product Length (bp)
GAPDH-F	CGAACCTCTCTGCTCCTCTGTTTCG	NM_002046	83
GAPDH-R	CATGGTGTCTGAGCGATGTGG		
HOXD10-F	AGTGCAGGAGAAGGAAAGCA	NM_002148	80
HOXD10-R	TTCTGCCACTCTTTGCAGTG		
HOXA9-F	CGGTTATGGCATTAAACCTGAACCG	NM_152739	67
HOXA9-R	GTGAGTGTCAAGCGTGGGACAG		
HOXC8-F	CGGTAAGTTCCAAGGTCTGATACCG	NM_022658	99
HOXC8-R	CGTCTCCAGCCTCATGTTTC		
TFAP2A-F	CTGCAGGGAGACGTAAAGC	NM_003220	74
TFAP2A-R	GGCTAGGTGGACAGCTTCTC		
HOXB6-F	CGGGCCACTTCCTCCTATTACCCG	NM_018952	104
HOXB6-R	GCCGACTCTTTCTCGCGGTAG		
CD24-F	TCACTTTCCTCCTGAGGCTT	NM_013230	125
CD24-R	TCAAGAGTTGCTCAGGATGC		
MEIS2-F	CGGATGCCTAGATCACTTTCTTATCCG	NM_170677	70
MEIS2-R	TCTGCGCTCCAATAAACTCCTG		
SHANK2-F	CGGTGGAACCTTGACCCTGTCACCG	NM_012309	79
SHANK2-R	CGTCGCTGTCAAGCCATACC		
PPARG-F	CGAGACCAACAGCTTCTCCTTCTCG	NM_005037	90
PPARG-R	TTTCAGAAATGCCTTGCAAGTGG		
WNT2B-F	CTTTCCTTTGCACCAAGCTTC	NM_004185	52
WNT2B-R	TACCCCTTCTCTTGACACACC		
WNT16-F	GAGCTGTGCAAGAGGAAACC	NM_057168	108
WNT16-R	TCATGCAGTTCCATCTCTCG		
BARX1-F	CGCTTCGAGAAGCAGAAGTA	NM_021570	111
BARX1-R	CTTCATCCTCCGATTCTGGT		
SATB1-F	CCCGTAAGCATGAAACCAGT	NM_001131010	144
SATB1-R	GGGCAAGTTTCCAAAGATCA		
SATB2-F	CCTCCTCCGACTGAAGACAG	NM_001172509	115
SATB2-R	TGGTCTGGGTACAGGCCTAC		
IGFBP2-F	CGTTCAAGTGCAAGATGTCTCTGAACG	NM_000597	71
IGFBP2-R	GGATCAGCTTCCCGGTGTTG		
IGFBP5-F	GCACCTGAGATGAGACAGGA	NM_000599	139
IGFBP5-R	TGTAGAATCCTTTGCGGTCA		
DLX2-F	CCTGAGAAGGAGGACCTTGA	NM_004405	65
DLX2-R	TTCCGGACTTTCTTTGGCT		
DLX5-F	CGCTAGCTCCTACCACCAGT	NM_005221	84
DXL5-R	GGCTCGGTCACTTCTTTCTC		
S100A4-F	GTACTTGGTGTCCACCTTCCACAAGTAC	NM_002961	85
S100A4-R	CCGGGTCAGCAGCTCCTTTAG		
BSP-F	CAGGCCACGATATTATCTTTACA	NM_004967	133
BSP-R	CTCCTCTTCTTCTCCTCCTC		
OSX-F	CCTCCTCAGCTCACCTTCTC	NM_001173467	148
OSX-R	GTTGGGAGCCCAAATAGAAA		
OPN-F	ATGATGGCCGAGGTGATAGT	NM_001040058	134
OPN-R	ACCATTCAACTCCTCGCTTT		
LPL-F	CGGATTAACATTGGAGAAGCTATCCG	NM_000237	65
LPL-R	AGCTGGTCCACATCTCCAAGTC		
CD36-F	CGATTAACATAAGTAAAGTTGCCATAATCG	NM_001001548	78
CD36-R	CGCAGTGACTTTCCCAATAGGAC		
CEBPA-F	CGGCTTATCCTAAATACTAGAGTTGCCG	NM_004364	113
CEBPA-R	GGACTTGGTGCGTCTAAGATGA		
NANOG-F	CCCTAATTTGTTGGTTGTGCTAA	NM_024865	64
NANOG-R	CGTATTCAATTACGATGCAGCAAATACG		
OCT4-F	CGGTTTCGAGTGTGGTTCTGTAACCG	NM_002701	61
OCT4-R	GTTGTGCATAGTCGCTGCTTGA		
SOX2-F	CGAGTACCTACAGCATGTCCTACTCG	NM_003106	86
SOX2-R	GAGCTGGCCTCGGACTTGAC		
COL2-F	CATCCCACCCTCTCACAGTT	NM_001844	65
COL2-R	TCTGCCCAGTTCAGGTCTCT		
SOX9-F	CCCTTCAACCTCCCACTA	NM_000346	74
SOX9-R	TGGTGGTCGGTGTAGTCGTA		

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Supplementary table 2. Microarray data of WJCMSCs and PDLSCs

Gene Symbol	Log ₂ ^{signal intensities} (WJCMSCs/PDLSCs)	regulation	p-value	FDR
DSC3	77.24	up	3.31E-10	1.45E-09
CD200	72.1	up	1.59E-10	8.66E-10
IL1A	65.36	up	2.58E-09	6.06E-09
IL1B	63.76	up	1.16E-09	3.42E-09
KRT8	39.09	up	2.47E-07	2.73E-07
RPS4Y1	26.31	up	9.08E-10	2.91E-09
GPR126	23.51	up	1.31E-07	1.54E-07
DSG2	23.49	up	5.11E-10	1.89E-09
TBX20	19.65	up	1.66E-09	4.34E-09
TMEM154	19.41	up	1.75E-08	2.71E-08
SPON2	19.32	up	6.84E-09	1.31E-08
DPP4	18.43	up	3.03E-12	1.49E-10
TNIK	18.33	up	4.23E-11	3.61E-10
RNU5D	17.75	up	1.92E-07	2.15E-07
NPY	15.88	up	1.27E-06	1.28E-06
ALDH1A1	15.82	up	1.24E-08	2.06E-08
HOXD10	15.82	up	4.02E-08	5.39E-08
DDX3Y	15.31	up	3.40E-09	7.48E-09
PCDH10	15.3	up	5.30E-11	4.27E-10
MAB21L2	15.26	up	4.20E-07	4.45E-07
BHLHE41	14.24	up	7.99E-10	2.66E-09
NLGN4Y	14.1	up	1.71E-07	1.95E-07
ANXA3	14.03	up	7.22E-08	9.02E-08
ABCA1	13.54	up	2.40E-10	1.11E-09
CHI3L1	12.91	up	4.09E-06	4.09E-06
NRP2	12.9	up	1.29E-10	7.86E-10
ST8SIA4	12.53	up	1.86E-08	2.85E-08
IQGAP2	12.29	up	2.00E-09	5.00E-09
CXCL6	12.24	up	4.30E-07	4.55E-07
MIR31	12.23	up	1.54E-08	2.44E-08
TEK	12.18	up	2.91E-09	6.65E-09
MIR622	11.98	up	2.02E-09	5.03E-09
TMEM88	11.88	up	8.01E-08	9.88E-08
KRT18	11.74	up	9.35E-09	1.69E-08
FAM198B	11.52	up	1.34E-08	2.18E-08
RHOJ	11.38	up	1.10E-07	1.31E-07
ST3GAL6	11.22	up	3.07E-08	4.36E-08
GFPT2	11.17	up	8.43E-11	5.95E-10
SLC22A3	11.08	up	6.19E-09	1.20E-08
PKP2	10.82	up	5.66E-10	2.01E-09
SULT1E1	10.5	up	5.08E-08	6.63E-08
KSR1	10.45	up	3.56E-10	1.52E-09

RHOU	10.2	up	4.47E-07	4.72E-07
EIF1AY	10.08	up	1.06E-08	1.86E-08
CYorf15A	9.85	up	1.00E-07	1.92E-07
TNFRSF9	9.42	up	6.38E-08	8.10E-08
LINGO2	9.3	up	1.30E-07	1.53E-07
UTY	9.23	up	1.48E-10	8.37E-10
ST6GAL2	8.99	up	7.74E-09	1.44E-08
IFNE	8.81	up	1.22E-08	2.04E-08
HOXA9	8.73	up	5.35E-07	5.59E-07
PDLIM3	8.65	up	1.98E-08	2.98E-08
TM6SF1	8.56	up	4.14E-08	5.53E-08
GPRC5B	8.4	up	3.07E-07	3.33E-07
BNC1	8.36	up	1.90E-08	2.90E-08
ADARB1	8.23	up	6.33E-10	2.22E-09
ROR2	8.13	up	1.17E-07	1.39E-07
LCP1	8.11	up	3.58E-08	4.93E-08
MEIS1	8.09	up	1.23E-08	2.05E-08
ST6GALNAC5	8	up	4.17E-11	3.61E-10
SHC3	7.94	up	9.60E-10	3.03E-09
VTRNA1-2	7.83	up	1.00E-07	1.92E-07
HOXC8	7.67	up	3.16E-07	3.41E-07
KRT18	7.64	up	1.00E-07	1.92E-07
CDCP1	7.39	up	2.63E-08	3.83E-08
BDKRB1	7.35	up	1.44E-12	1.49E-10
PAPPA	7.33	up	1.62E-09	4.29E-09
DSC2	7.21	up	1.12E-07	1.33E-07
P4HA3	7.16	up	2.86E-09	6.57E-09
ARHGDIB	7.08	up	1.22E-06	1.24E-06
FAM83B	6.92	up	1.27E-08	2.09E-08
USP9Y	6.81	up	1.55E-08	2.44E-08
CYorf15B	6.76	up	4.31E-10	1.69E-09
KAL1	6.74	up	5.43E-08	6.97E-08
LRRC17	6.67	up	6.15E-09	1.19E-08
SCD	6.66	up	4.92E-10	1.85E-09
CXCL1	6.62	up	9.38E-09	1.69E-08
MANBA	6.33	up	1.02E-10	6.88E-10
NRXN3	6.16	up	2.34E-09	5.66E-09
HOXA6	6.05	up	2.30E-08	3.39E-08
SLITRK4	6.04	up	1.00E-07	1.92E-07
NCKAP5	6.04	up	1.25E-07	1.48E-07
C3	5.88	up	1.34E-08	2.17E-08
HSD17B6	5.84	up	2.00E-07	3.51E-07
ZFY	5.77	up	1.00E-07	1.92E-07
TMEM156	5.76	up	2.83E-09	6.52E-09
SCRG1	5.74	up	2.24E-07	2.49E-07
JUP	5.72	up	1.37E-09	3.82E-09
PBX1	5.71	up	2.21E-08	3.29E-08
LOC554202	5.67	up	9.70E-09	1.73E-08
PTGS2	5.65	up	4.05E-10	1.61E-09
ADAMTS12	5.64	up	2.57E-11	2.92E-10
HOXA11	5.64	up	5.00E-07	7.84E-07

LAMC2	5.62	up	9.94E-09	1.77E-08
LIMCH1	5.56	up	1.23E-08	2.05E-08
NOX4	5.56	up	5.00E-07	7.84E-07
AMIGO2	5.55	up	5.02E-10	1.87E-09
ITGB3	5.45	up	2.71E-09	6.29E-09
TET1	5.41	up	8.80E-10	2.86E-09
PLEK2	5.36	up	1.02E-08	1.80E-08
NUAK1	5.35	up	1.62E-07	1.86E-07
KDM5D	5.27	up	1.14E-09	3.42E-09
ARSI	5.09	up	6.65E-08	8.40E-08
B3GNT5	5	up	1.73E-09	4.40E-09
CPA4	4.97	up	1.71E-09	4.38E-09
ARHGEF3	4.97	up	5.13E-08	6.69E-08
C11orf9	4.93	up	3.23E-08	4.54E-08
CNTNAP3	4.92	up	1.48E-09	4.06E-09
CNTNAP3	4.92	up	1.48E-09	4.06E-09
CLDN1	4.91	up	2.01E-08	3.03E-08
ST6GAL1	4.88	up	1.27E-08	2.10E-08
PPAPDC1A	4.84	up	8.46E-10	2.77E-09
06. Sep	4.79	up	5.32E-08	6.89E-08
CNTNAP3	4.78	up	2.83E-11	2.98E-10
FNBP1L	4.78	up	2.45E-08	3.58E-08
ABCA8	4.77	up	1.64E-11	2.38E-10
C4orf7	4.77	up	5.00E-07	7.84E-07
CARD11	4.71	up	2.67E-08	3.88E-08
CXADR	4.68	up	1.00E-07	1.92E-07
PLEKHA2	4.61	up	9.79E-10	3.08E-09
CREB5	4.59	up	8.27E-07	8.52E-07
HOXC6	4.56	up	3.94E-09	8.41E-09
TMCC3	4.54	up	4.60E-06	5.89E-06
DIRAS3	4.53	up	6.84E-09	1.31E-08
TFAP2A	4.52	up	2.12E-08	3.18E-08
TSPAN13	4.49	up	3.41E-08	4.76E-08
BMP6	4.46	up	1.00E-07	1.92E-07
FADS2	4.42	up	2.06E-10	1.01E-09
SH3RF2	4.4	up	2.40E-08	3.53E-08
F3	4.39	up	8.81E-09	1.61E-08
IL8	4.36	up	2.98E-09	6.79E-09
CDKN2B	4.36	up	2.52E-06	2.53E-06
MIR145	4.35	up	1.14E-08	1.96E-08
STXBP5L	4.34	up	1.00E-07	1.92E-07
HOXA7	4.32	up	2.44E-08	3.58E-08
CCDC85A	4.32	up	2.00E-07	3.51E-07
HSPB8	4.25	up	3.00E-07	5.02E-07
RGS4	4.24	up	1.16E-09	3.42E-09
03. Mrz	4.23	up	3.29E-11	3.25E-10
STK38L	4.21	up	3.35E-11	3.25E-10
CENPV	4.21	up	3.52E-08	4.87E-08
TRHDE	4.2	up	5.37E-08	6.91E-08
VAT1L	4.18	up	5.23E-09	1.05E-08
ANXA10	4.14	up	2.45E-08	3.58E-08

MGST2	4.13	up	3.70E-08	5.04E-08
IL33	4.1	up	2.00E-07	3.51E-07
HOXC9	4.1	up	5.20E-06	6.56E-06
FAIM2	4.06	up	9.53E-08	1.15E-07
FLT1	4.05	up	4.09E-08	5.47E-08
GALNT12	4.05	up	3.48E-07	3.74E-07
ICAM1	4.01	up	4.57E-09	9.56E-09
FIBIN	3.96	up	5.17E-08	6.72E-08
ADAM19	3.94	up	5.95E-11	4.68E-10
IER3	3.93	up	3.72E-11	3.39E-10
TSPAN15	3.93	up	1.01E-08	1.78E-08
CNTNAP3	3.86	up	1.79E-09	4.50E-09
GDF15	3.85	up	2.96E-08	4.26E-08
CNTNAP3	3.82	up	2.73E-10	1.24E-09
HOXC10	3.82	up	1.36E-08	2.20E-08
COL3A1	3.79	up	1.53E-12	1.49E-10
FGD6	3.78	up	8.91E-08	1.09E-07
SLC1A3	3.77	up	1.15E-10	7.39E-10
IER3	3.76	up	1.40E-10	8.14E-10
IER3	3.76	up	1.40E-10	8.14E-10
FRMPD4	3.72	up	2.00E-07	3.51E-07
GSTT2	3.71	up	4.00E-07	4.26E-07
GSTT2	3.71	up	4.00E-07	4.26E-07
VCAM1	3.7	up	1.96E-08	2.96E-08
CXCL5	3.7	up	1.79E-06	1.80E-06
KRT19	3.69	up	1.05E-07	1.26E-07
OLR1	3.68	up	2.00E-07	3.51E-07
MYOCD	3.67	up	4.41E-10	1.71E-09
PDE10A	3.67	up	1.20E-08	2.03E-08
NFKBIZ	3.64	up	1.57E-08	2.47E-08
SPECC1	3.63	up	3.44E-08	4.79E-08
FLJ34690	3.62	up	1.82E-10	9.62E-10
HOXA2	3.62	up	9.94E-10	3.11E-09
ITGB1BP2	3.62	up	2.22E-08	3.30E-08
TRPA1	3.62	up	5.99E-08	7.62E-08
ELOVL2	3.58	up	8.76E-07	8.98E-07
MECOM	3.57	up	1.22E-07	1.45E-07
ST6GALNAC3	3.55	up	3.68E-09	7.99E-09
DCBLD1	3.53	up	6.21E-10	2.19E-09
TMEM2	3.51	up	5.78E-09	1.14E-08
MATN2	3.5	up	2.38E-07	2.63E-07
KIAA1324L	3.49	up	1.00E-06	1.46E-06
SGCG	3.49	up	1.10E-06	1.58E-06
FAM60A	3.48	up	1.78E-07	2.01E-07
PDPN	3.48	up	2.12E-07	2.37E-07
STK33	3.44	up	1.98E-10	1.00E-09
HOXA4	3.44	up	1.00E-07	1.92E-07
SERPINB9	3.43	up	8.84E-07	9.05E-07
C3orf52	3.41	up	2.26E-09	5.50E-09
CD274	3.4	up	1.00E-07	1.92E-07
ENC1	3.39	up	9.55E-09	1.72E-08

TNFAIP6	3.34	up	1.05E-09	3.25E-09
SEL1L3	3.31	up	4.84E-10	1.83E-09
HOXB6	3.3	up	2.90E-06	3.85E-06
FLRT3	3.29	up	6.93E-10	2.41E-09
PTHLH	3.29	up	5.51E-08	7.06E-08
PRICKLE2	3.27	up	5.90E-08	7.53E-08
PHKA1	3.26	up	5.56E-09	1.10E-08
RTN1	3.25	up	1.00E-07	1.92E-07
HAND2	3.25	up	4.00E-07	6.42E-07
TGFBR1	3.22	up	8.25E-10	2.73E-09
WNK4	3.21	up	2.09E-09	5.15E-09
FMNL2	3.19	up	1.39E-08	2.23E-08
ACTBL2	3.19	up	3.00E-07	5.02E-07
C4orf26	3.19	up	5.00E-07	7.84E-07
RASGRP1	3.18	up	3.75E-10	1.55E-09
PLD1	3.18	up	8.98E-08	1.09E-07
CORO2B	3.18	up	3.00E-07	5.02E-07
PITX2	3.17	up	1.43E-05	1.70E-05
DHCR7	3.14	up	3.67E-09	7.98E-09
SIRPA	3.14	up	2.20E-07	2.46E-07
CHD7	3.13	up	1.19E-09	3.45E-09
MGC24103	3.13	up	1.30E-06	1.84E-06
CCND2	3.11	up	1.00E-07	1.92E-07
ITPR2	3.11	up	1.10E-07	1.31E-07
CCDC68	3.11	up	6.00E-07	9.21E-07
XRCC4	3.09	up	3.22E-09	7.19E-09
GATA6	3.09	up	2.00E-07	3.51E-07
HOXB2	3.09	up	1.00E-06	1.46E-06
SORBS1	3.08	up	1.22E-10	7.64E-10
C3orf59	3.08	up	8.30E-09	1.54E-08
PGM2L1	3.07	up	1.29E-07	1.52E-07
ANXA8L1	3.05	up	1.96E-08	2.96E-08
SYT1	3.05	up	5.21E-08	6.75E-08
SNORD56B	3.05	up	1.00E-06	1.46E-06
NRK	3.05	up	2.29E-05	2.64E-05
SLC7A7	3.04	up	7.81E-09	1.45E-08
FLNB	3.03	up	1.74E-11	2.38E-10
RGS2	3.03	up	1.73E-07	1.96E-07
VAMP8	3.03	up	4.00E-07	6.42E-07
CCDC85A	3.02	up	3.30E-06	4.34E-06
OGFRL1	2.98	up	1.70E-09	4.38E-09
F11R	2.98	up	2.00E-07	3.51E-07
INHBE	2.97	up	3.20E-06	4.22E-06
DPYSL3	2.96	up	2.21E-10	1.04E-09
NALCN	2.96	up	3.59E-08	4.93E-08
RAB27B	2.95	up	1.36E-07	1.59E-07
HOXA5	2.95	up	7.00E-07	1.06E-06
SLC7A2	2.94	up	2.00E-07	3.51E-07
DUSP5P	2.91	up	1.28E-05	1.52E-05
MYH10	2.9	up	7.96E-12	2.05E-10
SKIL	2.89	up	6.11E-07	6.33E-07

FLJ38109	2.87	up	3.50E-08	4.85E-08
PLXDC2	2.87	up	1.57E-07	1.81E-07
INHBA	2.86	up	3.14E-12	1.49E-10
DUSP5P	2.85	up	5.00E-07	7.84E-07
ST3GAL1	2.83	up	3.24E-09	7.21E-09
CD55	2.81	up	3.29E-09	7.30E-09
LRIG1	2.81	up	2.25E-08	3.34E-08
LOC100133106	2.81	up	3.63E-07	3.88E-07
MMP16	2.8	up	3.00E-07	5.02E-07
COL11A1	2.8	up	5.69E-07	5.91E-07
TDO2	2.8	up	9.00E-07	1.33E-06
PLD5	2.8	up	4.70E-06	5.99E-06
NFE2L3	2.77	up	4.04E-07	4.29E-07
TGFB2	2.76	up	1.61E-11	2.38E-10
PROCR	2.76	up	1.05E-08	1.85E-08
IRAK3	2.76	up	1.00E-07	1.92E-07
IL32	2.76	up	3.16E-07	3.41E-07
OR51E2	2.75	up	2.50E-06	3.35E-06
MEST	2.74	up	5.78E-13	1.49E-10
MLLT11	2.74	up	3.19E-11	3.25E-10
HOXB9	2.74	up	1.00E-07	1.92E-07
TAGLN3	2.74	up	8.30E-06	1.02E-05
MATN3	2.73	up	1.80E-06	2.48E-06
CYP2S1	2.72	up	1.13E-09	3.41E-09
C3AR1	2.72	up	2.80E-06	3.72E-06
STMN2	2.72	up	7.01E-05	7.82E-05
GPR63	2.71	up	3.71E-10	1.54E-09
CNN1	2.71	up	1.57E-09	4.23E-09
LMCD1	2.71	up	1.13E-08	1.95E-08
B4GALT6	2.71	up	2.81E-08	4.08E-08
ZFPM2	2.7	up	5.14E-10	1.89E-09
ADAMTS9	2.69	up	3.82E-08	5.18E-08
PRDM1	2.69	up	4.05E-08	5.42E-08
TBC1D4	2.67	up	4.00E-07	6.42E-07
FLI1	2.66	up	1.37E-09	3.82E-09
PHLDB2	2.66	up	1.75E-08	2.71E-08
HOXD11	2.66	up	4.00E-07	6.42E-07
COBLL1	2.66	up	5.44E-07	5.67E-07
PAPPA	2.66	up	7.00E-07	1.06E-06
HMCN1	2.65	up	1.32E-08	2.16E-08
SORL1	2.64	up	5.05E-11	4.11E-10
FAM59A	2.63	up	6.00E-07	9.21E-07
MCAM	2.62	up	7.52E-10	2.55E-09
MIR503	2.62	up	5.00E-07	7.84E-07
ODZ2	2.62	up	1.98E-06	1.99E-06
KDR	2.62	up	3.80E-06	4.95E-06
SCARB1	2.61	up	1.00E-07	1.92E-07
HBEGF	2.6	up	7.27E-11	5.41E-10
DFNA5	2.6	up	4.36E-08	5.78E-08
C5orf4	2.6	up	5.39E-07	5.62E-07
IGF2BP1	2.59	up	9.22E-10	2.94E-09

CCDC36	2.59	up	1.00E-07	1.92E-07
CDH4	2.58	up	1.00E-07	1.92E-07
HOXC5	2.58	up	1.60E-06	2.23E-06
ASS1	2.57	up	5.45E-10	1.94E-09
COL4A1	2.56	up	2.56E-11	2.92E-10
CADM1	2.56	up	1.00E-07	1.92E-07
SSTR1	2.56	up	5.00E-06	6.34E-06
BTBD11	2.55	up	2.00E-07	3.51E-07
DAPK1	2.55	up	1.60E-06	2.23E-06
SULT1B1	2.54	up	9.00E-07	1.33E-06
ERAP2	2.54	up	1.90E-06	2.61E-06
CDH2	2.53	up	3.65E-12	1.49E-10
ARHGAP42	2.53	up	9.52E-09	1.72E-08
FKBP5	2.53	up	4.12E-07	4.38E-07
MFAP2	2.52	up	1.74E-09	4.40E-09
PCDH7	2.52	up	5.41E-09	1.08E-08
KDELC1	2.52	up	1.39E-08	2.23E-08
ITGA2	2.51	up	1.23E-10	7.64E-10
EDNRA	2.51	up	2.76E-07	3.02E-07
HOXB3	2.51	up	1.00E-05	1.21E-05
CTH	2.5	up	3.00E-07	5.02E-07
RBM47	2.49	up	3.17E-10	1.41E-09
NCAM1	2.49	up	8.78E-09	1.61E-08
ALOX5AP	2.49	up	6.00E-07	9.21E-07
SLC19A2	2.48	up	2.00E-07	3.51E-07
PELO	2.48	up	2.00E-07	3.51E-07
SERPINB7	2.47	up	1.00E-07	1.92E-07
GALNT10	2.45	up	6.84E-11	5.20E-10
SLC25A23	2.45	up	1.00E-07	1.92E-07
PELI1	2.45	up	4.00E-06	5.17E-06
MSI2	2.44	up	1.32E-07	1.55E-07
HOXB5	2.44	up	6.00E-07	9.21E-07
SPOCK1	2.43	up	8.83E-12	2.05E-10
ZNF462	2.43	up	2.85E-08	4.11E-08
RAB33A	2.43	up	2.20E-06	2.98E-06
ANKRD50	2.41	up	5.27E-10	1.92E-09
LIFR	2.41	up	5.62E-08	7.18E-08
KCNG1	2.41	up	8.98E-08	1.09E-07
PRKY	2.4	up	1.00E-07	1.92E-07
ARHGEF26	2.4	up	1.20E-06	1.71E-06
MCTP1	2.4	up	1.80E-06	2.48E-06
THBS2	2.39	up	2.31E-12	1.49E-10
ADAM12	2.39	up	3.31E-12	1.49E-10
PRSS35	2.39	up	2.00E-07	3.51E-07
SPATS2	2.38	up	1.90E-10	9.83E-10
PTPRE	2.38	up	3.50E-06	4.58E-06
MMP16	2.37	up	1.67E-09	4.34E-09
SLC6A15	2.37	up	3.10E-06	4.10E-06
TMEM133	2.36	up	3.11E-09	7.03E-09
LMO4	2.36	up	1.65E-08	2.58E-08
TAS2R43	2.36	up	2.00E-07	3.51E-07

IL31RA	2.35	up	2.40E-06	3.24E-06
C16orf74	2.35	up	1.02E-05	1.23E-05
SULF1	2.34	up	2.83E-12	1.49E-10
TMEM144	2.34	up	2.07E-10	1.01E-09
CCL20	2.34	up	1.20E-06	1.71E-06
ZC3H12A	2.34	up	1.19E-05	1.42E-05
C20orf112	2.33	up	1.00E-07	1.92E-07
ARAP2	2.33	up	1.00E-07	1.92E-07
CLTCL1	2.32	up	8.62E-08	1.05E-07
TTLL7	2.31	up	5.37E-10	1.94E-09
HTR1D	2.31	up	3.42E-09	7.52E-09
DDX26B	2.3	up	1.00E-07	1.92E-07
GPC6	2.29	up	1.39E-10	8.14E-10
MCTP2	2.29	up	6.00E-07	9.21E-07
IL6	2.28	up	8.64E-10	2.82E-09
FZD8	2.28	up	2.00E-07	3.51E-07
SNORD109A	2.28	up	5.10E-06	6.44E-06
SNORD109A	2.28	up	5.10E-06	6.44E-06
MIR181A2	2.28	up	3.18E-05	3.63E-05
GOPC	2.27	up	5.01E-11	4.11E-10
ADAM23	2.27	up	8.05E-08	9.91E-08
KIAA1598	2.27	up	1.00E-07	1.92E-07
MMP1	2.27	up	1.00E-07	1.92E-07
LMO3	2.27	up	1.40E-06	1.97E-06
SCG5	2.26	up	1.00E-07	1.92E-07
LOH3CR2A	2.26	up	8.00E-07	1.19E-06
PAR5	2.26	up	1.40E-06	1.97E-06
KCNG1	2.26	up	5.80E-06	7.27E-06
KGFLP2	2.25	up	2.07E-10	1.01E-09
COL25A1	2.24	up	3.40E-06	4.46E-06
ETS2	2.23	up	1.08E-10	7.14E-10
LIMS3	2.23	up	1.52E-10	8.41E-10
LIMS3	2.23	up	1.52E-10	8.41E-10
VEPH1	2.23	up	4.73E-09	9.74E-09
MID2	2.23	up	4.00E-07	6.42E-07
PTPRF	2.22	up	1.34E-10	8.09E-10
CDCA7L	2.22	up	3.16E-08	4.47E-08
FSD1	2.22	up	1.04E-07	1.24E-07
IL4R	2.22	up	1.70E-07	1.94E-07
IGSF10	2.22	up	6.50E-06	8.10E-06
HIVEP3	2.21	up	3.03E-08	4.31E-08
EGF	2.21	up	2.10E-06	2.86E-06
WDR69	2.2	up	5.00E-07	7.84E-07
SSPN	2.2	up	4.80E-06	6.11E-06
NAMPT	2.19	up	1.68E-10	9.01E-10
SNCA	2.19	up	4.38E-07	4.63E-07
SIK1	2.19	up	2.10E-06	2.86E-06
NNMT	2.16	up	7.51E-12	2.05E-10
BNC2	2.16	up	4.42E-10	1.71E-09
SAT1	2.16	up	2.58E-09	6.06E-09
ACCN2	2.16	up	7.00E-07	1.06E-06

FAM27E3	2.16	up	3.40E-06	4.46E-06
MEIS2	2.15	up	4.00E-07	6.42E-07
TMEM132A	2.15	up	4.90E-06	6.23E-06
RHBDF2	2.15	up	1.02E-05	1.23E-05
EAF2	2.15	up	2.45E-05	2.82E-05
MET	2.14	up	1.00E-07	1.92E-07
MST4	2.14	up	2.00E-07	3.51E-07
BAIAP2L1	2.14	up	6.00E-07	9.21E-07
CXCL2	2.14	up	9.10E-06	1.11E-05
XYLT1	2.13	up	7.07E-11	5.32E-10
TNFRSF10A	2.13	up	1.64E-10	8.86E-10
TRIM24	2.13	up	3.55E-09	7.76E-09
BHLHE40	2.13	up	3.00E-07	5.02E-07
HSPA2	2.13	up	1.90E-06	2.61E-06
ACTG2	2.12	up	1.46E-12	1.49E-10
FABP4	2.12	up	1.30E-11	2.22E-10
IKBKE	2.12	up	1.00E-07	1.92E-07
ODZ4	2.12	up	1.00E-07	1.92E-07
ACVR2A	2.12	up	1.00E-07	1.92E-07
CACNG7	2.12	up	2.70E-06	3.60E-06
JPH1	2.12	up	6.30E-06	7.88E-06
CLDN11	2.11	up	9.81E-12	2.12E-10
CCDC8	2.11	up	1.00E-07	1.92E-07
IL1RAP	2.11	up	7.00E-07	1.06E-06
NAMPT	2.1	up	4.71E-11	3.98E-10
OSBPL6	2.1	up	3.66E-08	5.00E-08
QPCT	2.1	up	1.00E-07	1.92E-07
GBGT1	2.1	up	1.00E-07	1.92E-07
GALNTL4	2.1	up	2.00E-07	3.51E-07
FRY	2.09	up	3.16E-09	7.10E-09
COL4A2	2.09	up	1.00E-07	1.92E-07
COL4A5	2.09	up	1.00E-07	1.92E-07
FAM27E3	2.09	up	1.30E-06	1.84E-06
KLHL4	2.09	up	3.90E-06	5.06E-06
CSNK1D	2.09	up	5.30E-06	6.67E-06
ATP2C1	2.08	up	1.44E-10	8.23E-10
ELTD1	2.08	up	2.04E-09	5.04E-09
STAT5B	2.08	up	1.87E-07	2.10E-07
LOC100131541	2.08	up	2.00E-07	3.51E-07
STARD4	2.08	up	2.00E-07	3.51E-07
RRP7B	2.08	up	8.00E-07	1.19E-06
FAM27E3	2.08	up	8.00E-07	1.19E-06
CHST1	2.08	up	1.20E-06	1.71E-06
SNORD30	2.08	up	8.30E-06	1.02E-05
SFXN2	2.07	up	1.00E-07	1.92E-07
GAB2	2.07	up	1.00E-07	1.92E-07
NDN	2.07	up	5.00E-07	7.84E-07
PPYR1	2.07	up	3.00E-06	3.97E-06
FAM84B	2.07	up	2.13E-05	2.48E-05
LYPD1	2.07	up	0.0001246	0.000136
GPAM	2.06	up	1.00E-07	1.92E-07

VLDLR	2.06	up	1.00E-07	1.92E-07
MIR181B1	2.06	up	2.10E-06	2.86E-06
MIR143	2.06	up	0.0004494	0.000474
GXYLT2	2.05	up	4.02E-09	8.54E-09
ATP2B1	2.05	up	1.00E-07	1.92E-07
JHDM1D	2.05	up	1.00E-07	1.92E-07
APBB2	2.04	up	4.52E-12	1.74E-10
SNORD116-21	2.04	up	1.60E-06	2.23E-06
PP13439	2.04	up	1.80E-05	2.11E-05
KCTD16	2.03	up	1.00E-07	1.92E-07
KCNAB1	2.03	up	3.00E-07	5.02E-07
ANXA8	2.02	up	2.82E-10	1.28E-09
SLC38A1	2.02	up	1.00E-07	1.92E-07
CSGALNACT1	2.02	up	2.85E-07	3.10E-07
ETNK2	2.02	up	7.00E-07	1.06E-06
ALDH1B1	2.01	up	4.10E-11	3.59E-10
HYI	2.01	up	1.20E-10	7.64E-10
C1QTNF1	2.01	up	1.08E-08	1.89E-08
NETO2	2.01	up	1.00E-07	1.92E-07
MIR146A	2	up	1.46E-05	1.73E-05
SCD	2	up	9.86E-05	0.000109
FAM46A	1.99	up	1.59E-10	8.66E-10
GRAMD1C	1.99	up	3.30E-06	4.34E-06
MPZL3	1.99	up	4.40E-06	5.65E-06
ITGA4	1.98	up	1.00E-07	1.92E-07
NFATC2	1.98	up	1.00E-07	1.92E-07
UCHL1	1.98	up	1.00E-07	1.92E-07
MGC16121	1.98	up	8.30E-06	1.02E-05
HOXD8	1.98	up	2.77E-05	3.17E-05
FERMT1	1.98	up	3.91E-05	4.43E-05
CDK15	1.97	up	1.00E-07	1.92E-07
KIAA0922	1.97	up	1.00E-07	1.92E-07
SLC16A9	1.97	up	1.16E-05	1.39E-05
CSRP2	1.97	up	7.32E-05	8.16E-05
ANXA8L2	1.96	up	2.85E-11	2.98E-10
KLHL5	1.96	up	2.69E-09	6.26E-09
COL5A2	1.96	up	1.00E-07	1.92E-07
TFRC	1.96	up	1.00E-07	1.92E-07
LRRTM3	1.96	up	6.00E-07	9.21E-07
CCDC122	1.96	up	8.00E-07	1.19E-06
DNAJB9	1.96	up	6.60E-06	8.20E-06
CD24	1.95	up	1.00E-07	1.92E-07
PKDCC	1.95	up	2.00E-07	3.51E-07
MSC	1.95	up	2.00E-07	3.51E-07
PIK3C2B	1.95	up	5.00E-07	7.84E-07
PTPRU	1.95	up	6.00E-07	9.21E-07
CDA	1.95	up	6.90E-06	8.52E-06
P2RX1	1.95	up	1.66E-05	1.96E-05
DNAJC12	1.94	up	1.80E-06	2.48E-06
BCHE	1.94	up	2.50E-06	3.35E-06
CTHRC1	1.93	up	5.21E-10	1.91E-09

PEG10	1.93	up	1.00E-07	1.92E-07
PTCH1	1.93	up	1.00E-07	1.92E-07
DIP2B	1.93	up	3.00E-07	5.02E-07
SLC38A4	1.93	up	1.20E-06	1.71E-06
ENTPD7	1.92	up	1.08E-09	3.29E-09
MIR21	1.92	up	1.40E-06	1.97E-06
SNRPN	1.92	up	5.20E-06	6.56E-06
MLXIP	1.91	up	2.41E-09	5.79E-09
FILIP1L	1.91	up	2.00E-07	3.51E-07
SLC4A3	1.91	up	5.30E-06	6.67E-06
STGC3	1.91	up	2.07E-05	2.42E-05
ARHGAP28	1.91	up	2.69E-05	3.08E-05
QPRT	1.91	up	0.0001291	0.000141
UTS2D	1.91	up	0.0004467	0.000472
DYSF	1.9	up	1.00E-07	1.92E-07
FAR2	1.9	up	3.00E-07	5.02E-07
GYPC	1.9	up	3.00E-07	5.02E-07
GPR125	1.9	up	5.00E-07	7.84E-07
SNORA38B	1.9	up	4.00E-06	5.17E-06
POLR3G	1.9	up	4.70E-06	5.99E-06
LYPD6	1.89	up	1.00E-07	1.92E-07
CRISPLD2	1.89	up	2.00E-07	3.51E-07
MAN2A1	1.89	up	2.00E-07	3.51E-07
INSIG1	1.89	up	3.00E-07	5.02E-07
FGF7	1.89	up	1.80E-06	2.48E-06
FAM117B	1.89	up	1.10E-05	1.32E-05
LIPG	1.89	up	0.0001058	0.000117
AGRN	1.88	up	1.00E-07	1.92E-07
IQCB1	1.88	up	2.00E-07	3.51E-07
CLCN5	1.88	up	1.60E-06	2.23E-06
SPP1	1.88	up	4.40E-06	5.65E-06
DDIT4L	1.88	up	2.76E-05	3.16E-05
DUSP4	1.88	up	9.49E-05	0.000105
HAS2	1.87	up	1.75E-11	2.38E-10
NAV1	1.87	up	2.00E-07	3.51E-07
TANC1	1.87	up	2.00E-07	3.51E-07
ARHGAP20	1.87	up	8.00E-07	1.19E-06
COTL1	1.87	up	8.00E-07	1.19E-06
ODC1	1.87	up	4.30E-06	5.53E-06
LIF	1.86	up	1.00E-07	1.92E-07
SSBP3	1.86	up	4.00E-07	6.42E-07
HSPB6	1.86	up	7.00E-07	1.06E-06
TSKU	1.86	up	8.00E-07	1.19E-06
FBLIM1	1.86	up	5.00E-06	6.34E-06
PRR5L	1.86	up	1.01E-05	1.22E-05
SLC7A5	1.85	up	2.29E-12	1.49E-10
DDIT4	1.85	up	1.00E-07	1.92E-07
ETV6	1.85	up	1.00E-07	1.92E-07
PDIA5	1.85	up	1.00E-07	1.92E-07
AGPAT4	1.85	up	1.00E-07	1.92E-07
AVEN	1.85	up	1.00E-06	1.46E-06

ATP2A3	1.85	up	1.20E-06	1.71E-06
C7orf54	1.85	up	1.80E-06	2.48E-06
RNFT2	1.85	up	2.20E-06	2.98E-06
NTRK3	1.85	up	2.21E-05	2.56E-05
SNORD116-29	1.85	up	7.61E-05	8.47E-05
SSX2IP	1.84	up	1.00E-07	1.92E-07
FAM13A	1.84	up	1.00E-07	1.92E-07
TRIB1	1.84	up	1.00E-07	1.92E-07
DOCK2	1.84	up	3.00E-07	5.02E-07
CAMK1D	1.84	up	2.60E-06	3.47E-06
TNFSF4	1.84	up	3.90E-06	5.06E-06
ZFP57	1.84	up	2.10E-05	2.45E-05
LOC100132099	1.84	up	8.19E-05	9.10E-05
PAPSS2	1.83	up	1.00E-07	1.92E-07
PLTP	1.83	up	1.00E-07	1.92E-07
RAI14	1.83	up	1.00E-07	1.92E-07
TGFB1	1.83	up	1.00E-07	1.92E-07
TFPI2	1.83	up	1.00E-07	1.92E-07
LOC645166	1.83	up	2.00E-07	3.51E-07
HIVEP2	1.83	up	3.00E-07	5.02E-07
SNORD116-26	1.83	up	5.00E-07	7.84E-07
LHFPL2	1.83	up	2.00E-06	2.74E-06
HOXA1	1.83	up	8.20E-06	1.01E-05
SNORD116-11	1.83	up	5.01E-05	5.64E-05
ANTXR1	1.82	up	1.00E-07	1.92E-07
ROR1	1.82	up	3.00E-07	5.02E-07
TRAF5	1.82	up	3.00E-07	5.02E-07
SCN9A	1.82	up	4.00E-07	6.42E-07
SLC10A7	1.82	up	4.00E-07	6.42E-07
ZNF618	1.82	up	8.90E-06	1.09E-05
ABTB2	1.82	up	1.30E-05	1.55E-05
TNS1	1.81	up	1.82E-11	2.38E-10
MAP3K8	1.81	up	1.20E-06	1.71E-06
SYT15	1.81	up	1.50E-06	2.10E-06
NCRNA00185	1.81	up	0.0002317	0.000249
PLOD2	1.8	up	1.00E-07	1.92E-07
PTPRJ	1.8	up	4.00E-07	6.42E-07
GLS	1.8	up	4.00E-07	6.42E-07
GPR125	1.8	up	9.00E-07	1.33E-06
TTYH2	1.8	up	1.00E-06	1.46E-06
GSDMB	1.8	up	1.17E-05	1.40E-05
GLIPR2	1.79	up	1.00E-07	1.92E-07
BMPER	1.79	up	3.00E-07	5.02E-07
BAMBI	1.79	up	2.80E-06	3.72E-06
SNORD51	1.79	up	1.76E-05	2.07E-05
PPP1R13B	1.78	up	1.00E-07	1.92E-07
KCNE4	1.78	up	2.00E-07	3.51E-07
SMAD1	1.78	up	2.00E-07	3.51E-07
C4orf49	1.78	up	3.00E-07	5.02E-07
SUPT3H	1.78	up	3.00E-07	5.02E-07
C7orf68	1.78	up	3.00E-07	5.02E-07

GLIS3	1.78	up	3.00E-07	5.02E-07
NCAM2	1.78	up	1.60E-06	2.23E-06
GSTO2	1.78	up	0.0001443	0.000157
MIR492	1.78	up	0.0005005	0.000527
CAMK2A	1.77	up	1.00E-07	1.92E-07
PGM2	1.77	up	3.00E-07	5.02E-07
MCC	1.77	up	2.90E-06	3.85E-06
RPP25	1.77	up	3.90E-06	5.06E-06
DES	1.77	up	2.44E-05	2.81E-05
LOC100287290	1.77	up	0.0001331	0.000145
OCIAD2	1.76	up	3.00E-07	5.02E-07
EDEM2	1.76	up	5.00E-07	7.84E-07
AACS	1.76	up	2.10E-06	2.86E-06
LOC375295	1.76	up	2.20E-06	2.98E-06
HOXB7	1.76	up	1.44E-05	1.71E-05
GLCE	1.75	up	1.00E-07	1.92E-07
SEMA3D	1.75	up	3.00E-07	5.02E-07
NFKB1	1.75	up	9.00E-07	1.33E-06
MIR181B2	1.75	up	1.40E-06	1.97E-06
MIR137	1.75	up	1.90E-06	2.61E-06
PDE11A	1.75	up	3.90E-06	5.06E-06
ERN1	1.75	up	5.04E-05	5.67E-05
C10orf58	1.75	up	0.0001015	0.000112
SGPL1	1.74	up	4.00E-07	6.42E-07
GABRE	1.74	up	5.00E-07	7.84E-07
HYOU1	1.74	up	6.00E-07	9.21E-07
RNF122	1.74	up	8.00E-07	1.19E-06
CORO1A	1.74	up	6.70E-06	8.29E-06
C1D	1.74	up	9.40E-06	1.15E-05
F2RL1	1.74	up	1.57E-05	1.86E-05
RHOF	1.74	up	2.49E-05	2.86E-05
ATP7B	1.74	up	3.30E-05	3.76E-05
SNORD114-26	1.73	up	6.40E-06	7.98E-06
NEU1	1.72	up	9.70E-06	1.18E-05
GDPD1	1.72	up	0.0001382	0.000151
POU2F2	1.71	up	9.00E-07	1.33E-06
NR2F2	1.71	up	4.70E-06	5.99E-06
AMPD3	1.71	up	5.90E-06	7.39E-06
GATA4	1.71	up	1.58E-05	1.87E-05
CEP170	1.7	up	1.80E-06	2.48E-06
SNORD13P2	1.7	up	1.11E-05	1.33E-05
LOC151009	1.7	up	0.0001582	0.000172
TRIM61	1.7	up	0.0002884	0.000307
SLC5A3	1.69	up	1.30E-06	1.84E-06
FRMD5	1.69	up	1.80E-06	2.48E-06
NEU1	1.69	up	4.70E-06	5.99E-06
NEU1	1.69	up	4.70E-06	5.99E-06
FAM101A	1.69	up	2.27E-05	2.62E-05
KIR2DL3	1.69	up	0.0011945	0.00124
LRP12	1.68	up	8.00E-07	1.19E-06
SOD2	1.68	up	1.60E-06	2.23E-06

TOX2	1.68	up	1.07E-05	1.29E-05
FLJ35409	1.68	up	1.09E-05	1.31E-05
SNORD104	1.68	up	0.0002387	0.000256
PDK3	1.68	up	0.000243	0.000261
SLC12A7	1.68	up	0.0003825	0.000406
SNORD116-1	1.68	up	0.0009964	0.00104
CCDC144B	1.67	up	6.90E-06	8.52E-06
GAB3	1.67	up	2.17E-05	2.52E-05
LOC389607	1.67	up	6.24E-05	6.99E-05
ZNF334	1.67	up	8.47E-05	9.39E-05
TYRP1	1.66	up	8.20E-05	9.11E-05
ABCG1	1.66	up	9.95E-05	0.00011
PITX1	1.65	up	1.25E-05	1.49E-05
BST2	1.65	up	0.0001532	0.000167
SNORD116-23	1.65	up	0.0001802	0.000195
DPY19L2P1	1.65	up	0.0002702	0.000289
RRS1	1.64	up	2.30E-05	2.65E-05
BACH2	1.63	up	6.80E-06	8.41E-06
FAM113B	1.63	up	1.97E-05	2.31E-05
SNORD116-25	1.63	up	0.0002766	0.000295
FLJ31958	1.63	up	0.0008798	0.000919
SNORA64	1.63	up	0.0055199	0.00567
ACSL3	1.62	up	1.84E-05	2.16E-05
PTPRB	1.62	up	2.48E-05	2.85E-05
CRISPLD1	1.62	up	0.0001634	0.000177
PTPRH	1.62	up	0.0004238	0.000448
LOC100288884	1.62	up	0.0004314	0.000456
MED10	1.62	up	0.0163648	0.0166
SKAP2	1.61	up	4.68E-05	5.29E-05
NPPB	1.61	up	0.000323	0.000344
SNORA42	1.6	up	0.0018564	0.00193
SNORD116-8	1.6	up	0.002204	0.00228
FAM99A	1.6	up	0.0079664	0.00817
ZNF286A	1.59	up	1.07E-05	1.29E-05
DKFZp686O24166	1.59	up	2.81E-05	3.21E-05
P2RX5	1.58	up	4.29E-05	4.86E-05
KIF26B	1.58	up	0.0001832	0.000198
FAM118A	1.57	up	2.01E-05	2.35E-05
MOBKL2B	1.57	up	0.0001141	0.000125
C21orf82	1.57	up	0.0020654	0.00214
MBP	1.56	up	2.03E-05	2.37E-05
IL2RB	1.56	up	0.0003118	0.000332
PECR	1.56	up	0.0034959	0.00361
CCDC85C	1.55	up	0.0001294	0.000141
IL11	1.54	up	0.0001833	0.000198
STOX2	1.54	up	0.0006753	0.000708
LOC642947	1.53	up	0.0006459	0.000678
SNORD116-14	1.53	up	0.0007003	0.000733
SNORD116-5	1.53	up	0.0019405	0.00201
SNORD116-5	1.53	up	0.0019405	0.00201
ZNF778	1.52	up	0.0003924	0.000416

SOX5	1.52	up	0.0012831	0.00134
C1QTNF9B	1.52	up	0.0155258	0.0158
C6orf168	1.51	up	0.0001015	0.000112
SNORD116-3	1.51	up	0.0039971	0.00412
SNORD116-3	1.51	up	0.0039971	0.00412
SNORD116-22	1.49	up	0.0328817	0.0334
C15orf48	1.48	up	0.0006852	0.000718
SNORD25	1.48	up	0.0019138	0.00199
CDKL2	1.47	up	0.0021598	0.00224
LILRA3	1.45	up	0.0018006	0.00187
SNORD116-6	1.41	up	0.021175	0.0215
ARL9	1.39	up	0.0033109	0.00342
SNORD116-20	1.39	up	0.0105466	0.0108
OR10P1	1.37	up	0.0086043	0.00881
SNRPA1	1.37	up	0.0125503	0.0128
PHLDB2	1.35	up	0.0045467	0.00467
FAM38A	1.35	up	0.0251805	0.0256
NUDT4	1.33	up	0.0037365	0.00385
C10orf2	1.33	up	0.0083577	0.00857
ZNF552	1.33	up	0.0448467	0.0454
ZNF674	1.31	up	0.0427219	0.0433
ARHGAP23	0.76	down	0.0250174	0.0254
NYNRIN	0.75	down	0.0128421	0.0131
LOC150527	0.75	down	0.0387303	0.0393
LOC150527	0.75	down	0.0387303	0.0393
ZFP14	0.74	down	0.0095124	0.00973
ZNF501	0.73	down	0.0047724	0.0049
PSG8	0.73	down	0.0139864	0.0142
ARHGAP6	0.72	down	0.0024458	0.00253
RBMV2EP	0.72	down	0.0096447	0.00986
HIST1H2BC	0.72	down	0.0452087	0.0457
ROMO1	0.71	down	0.000705	0.000738
METTL7B	0.71	down	0.0065999	0.00677
RPPH1	0.7	down	0.0025459	0.00263
UBQLN4	0.7	down	0.0108219	0.011
DEPDC4	0.69	down	0.0019515	0.00202
LOC349196	0.68	down	0.0001834	0.000198
TEX15	0.68	down	0.0008029	0.000839
LOC100129503	0.68	down	0.0086454	0.00885
PAQR5	0.67	down	6.74E-05	7.54E-05
SPEF2	0.67	down	0.0002794	0.000298
FAM38B	0.66	down	0.0001575	0.000171
OASL	0.66	down	0.0003915	0.000415
GPCRLTM7	0.66	down	0.0004069	0.000431
PRKG2	0.66	down	0.0011871	0.00124
ANKS1B	0.65	down	0.0001862	0.000201
IL11RA	0.65	down	0.0002685	0.000287
AVPI1	0.65	down	0.0003237	0.000344
SEMA3E	0.64	down	7.70E-05	8.56E-05
AREG	0.64	down	0.0001143	0.000125
PLGLA	0.64	down	0.0002509	0.000269

INMT	0.64	down	0.0004121	0.000436
KIR3DL1	0.64	down	0.0042832	0.00441
KBTBD7	0.63	down	2.17E-05	2.52E-05
OR10A6	0.63	down	0.0002446	0.000262
METTL7A	0.63	down	0.0002937	0.000313
ADRA1D	0.63	down	0.0004532	0.000478
TYW1B	0.63	down	0.0040619	0.00418
ACSL5	0.62	down	2.00E-06	2.74E-06
LOC349196	0.62	down	7.20E-06	8.88E-06
C4orf46	0.62	down	8.80E-06	1.08E-05
FAM26E	0.62	down	1.06E-05	1.28E-05
AP1S2	0.62	down	2.65E-05	3.04E-05
FBLN7	0.62	down	2.90E-05	3.31E-05
C17orf48	0.62	down	6.90E-05	7.70E-05
CDC6	0.62	down	0.0001166	0.000128
KCNJ2	0.62	down	0.0001463	0.000159
ISM1	0.62	down	0.0001785	0.000193
HIST2H2AC	0.62	down	0.0006231	0.000655
ZNF826P	0.62	down	0.0011594	0.00121
C21orf15	0.62	down	0.0013974	0.00145
SOCS3	0.61	down	5.30E-06	6.67E-06
LY6K	0.61	down	6.40E-06	7.98E-06
HIST1H2BN	0.61	down	8.70E-06	1.07E-05
PHYH	0.61	down	1.07E-05	1.29E-05
MAP2	0.61	down	1.17E-05	1.40E-05
MAPK10	0.61	down	2.22E-05	2.57E-05
APOL1	0.61	down	3.58E-05	4.07E-05
ERMN	0.61	down	4.97E-05	5.60E-05
C15orf51	0.61	down	5.51E-05	6.18E-05
C15orf51	0.61	down	5.51E-05	6.18E-05
PIGZ	0.61	down	9.37E-05	0.000104
NOVA1	0.61	down	0.0001104	0.000121
GPC3	0.61	down	0.0001671	0.000181
DCHS1	0.61	down	0.000232	0.000249
AKR1C1	0.61	down	0.0007571	0.000792
FLJ30064	0.6	down	3.40E-06	4.46E-06
ENOX1	0.6	down	1.09E-05	1.31E-05
SIX4	0.6	down	1.14E-05	1.37E-05
TECR	0.6	down	1.60E-05	1.89E-05
ECM2	0.6	down	2.11E-05	2.46E-05
ARMCX6	0.6	down	2.43E-05	2.80E-05
APOBEC3G	0.6	down	2.98E-05	3.40E-05
LPHN3	0.6	down	5.89E-05	6.60E-05
RNF185	0.6	down	9.07E-05	1.00E-04
RASGRP3	0.6	down	0.0002416	0.000259
FRMD4B	0.6	down	0.0004287	0.000453
KRTAP4-2	0.6	down	0.0004474	0.000472
SLC4A4	0.59	down	4.00E-07	6.42E-07
RCBTB2	0.59	down	1.80E-06	2.48E-06
ACVR1C	0.59	down	5.30E-06	6.67E-06
CD163L1	0.59	down	9.80E-06	1.19E-05

C15orf51	0.59	down	1.59E-05	1.88E-05
C15orf51	0.59	down	2.13E-05	2.48E-05
C15orf51	0.59	down	2.13E-05	2.48E-05
AIM2	0.59	down	2.23E-05	2.58E-05
CRHBP	0.59	down	0.0003515	0.000373
LOC644714	0.59	down	0.0111774	0.0114
CTTNBP2NL	0.58	down	2.00E-07	3.51E-07
MEGF9	0.58	down	6.00E-07	9.21E-07
C5orf36	0.58	down	1.00E-06	1.46E-06
KRT14	0.58	down	1.50E-06	2.10E-06
C5	0.58	down	1.70E-06	2.36E-06
CDC25B	0.58	down	2.20E-06	2.98E-06
ACOX2	0.58	down	2.20E-06	2.98E-06
CTSO	0.58	down	3.90E-06	5.06E-06
C10orf122	0.58	down	4.00E-06	5.17E-06
ATOH8	0.58	down	4.20E-06	5.41E-06
EPHB6	0.58	down	4.40E-06	5.65E-06
KRTAP2-4	0.58	down	5.10E-06	6.44E-06
KRTAP2-4	0.58	down	5.10E-06	6.44E-06
MIR222	0.58	down	6.00E-06	7.51E-06
LAMB3	0.58	down	6.60E-06	8.20E-06
C15orf51	0.58	down	9.80E-06	1.19E-05
C15orf51	0.58	down	9.80E-06	1.19E-05
TDRD1	0.58	down	1.79E-05	2.10E-05
SOX6	0.58	down	1.82E-05	2.13E-05
SEMA3B	0.58	down	2.66E-05	3.05E-05
ID4	0.58	down	3.47E-05	3.95E-05
ZC3H12B	0.58	down	3.74E-05	4.25E-05
BAIAP2	0.58	down	4.95E-05	5.58E-05
G0S2	0.58	down	5.63E-05	6.31E-05
SLC15A3	0.58	down	6.77E-05	7.56E-05
HSPB3	0.58	down	7.36E-05	8.19E-05
FAM82A1	0.58	down	8.42E-05	9.34E-05
EN1	0.58	down	0.0001538	0.000167
EVI2B	0.58	down	0.0001904	0.000205
UBE2T	0.57	down	2.00E-07	3.51E-07
SETDB2	0.57	down	2.00E-07	3.51E-07
SNX9	0.57	down	2.00E-07	3.51E-07
B2M	0.57	down	4.00E-07	6.42E-07
HIST1H2BK	0.57	down	4.00E-07	6.42E-07
ASB6	0.57	down	4.00E-07	6.42E-07
TMEM205	0.57	down	5.00E-07	7.84E-07
STK3	0.57	down	5.00E-07	7.84E-07
RAD51AP1	0.57	down	6.00E-07	9.21E-07
FAS	0.57	down	7.00E-07	1.06E-06
H1FO	0.57	down	7.00E-07	1.06E-06
ADCY9	0.57	down	1.10E-06	1.58E-06
HIST1H2BB	0.57	down	1.10E-06	1.58E-06
WIPF1	0.57	down	1.40E-06	1.97E-06
GLRB	0.57	down	1.80E-06	2.48E-06
PTN	0.57	down	3.00E-06	3.97E-06

ADAMTSL4	0.57	down	3.80E-06	4.95E-06
AFF3	0.57	down	4.30E-06	5.53E-06
MANSC1	0.57	down	4.50E-06	5.77E-06
PPP1R14A	0.57	down	5.50E-06	6.91E-06
DEFB109P1B	0.57	down	6.70E-06	8.29E-06
STAT4	0.57	down	2.19E-05	2.54E-05
RNF182	0.57	down	0.0005207	0.000548
PLSCR4	0.56	down	1.00E-07	1.92E-07
FAM13B	0.56	down	1.00E-07	1.92E-07
AKAP12	0.56	down	1.00E-07	1.92E-07
PGCP	0.56	down	1.00E-07	1.92E-07
DDX58	0.56	down	1.00E-07	1.92E-07
DLC1	0.56	down	2.00E-07	3.51E-07
FOSL1	0.56	down	3.00E-07	5.02E-07
KITLG	0.56	down	3.00E-07	5.02E-07
GPC1	0.56	down	3.00E-07	5.02E-07
LY6E	0.56	down	3.00E-07	5.02E-07
TRIM25	0.56	down	4.00E-07	6.42E-07
PLSCR1	0.56	down	4.00E-07	6.42E-07
C10orf54	0.56	down	5.00E-07	7.84E-07
BCL2L1	0.56	down	6.00E-07	9.21E-07
CALB2	0.56	down	8.00E-07	1.19E-06
RGL1	0.56	down	1.00E-06	1.46E-06
SGSH	0.56	down	1.00E-06	1.46E-06
FGF1	0.56	down	1.50E-06	2.10E-06
ZFP3	0.56	down	2.30E-06	3.11E-06
CYLD	0.56	down	2.50E-06	3.35E-06
SCN11A	0.56	down	5.70E-06	7.16E-06
ANO3	0.56	down	6.40E-06	7.98E-06
HLA-J	0.56	down	6.50E-06	8.10E-06
PTPN3	0.56	down	8.40E-06	1.03E-05
SERPINB10	0.56	down	1.30E-05	1.55E-05
S100A3	0.56	down	5.32E-05	5.98E-05
CHRD1	0.56	down	8.22E-05	9.12E-05
ANKRD20B	0.56	down	0.000156	0.000169
PSG6	0.56	down	0.0002031	0.000219
SLIT2	0.55	down	6.71E-12	2.04E-10
SLC38A6	0.55	down	1.00E-07	1.92E-07
NQO1	0.55	down	1.00E-07	1.92E-07
GRLF1	0.55	down	1.00E-07	1.92E-07
RARB	0.55	down	1.00E-07	1.92E-07
FCHO2	0.55	down	1.00E-07	1.92E-07
TMEM173	0.55	down	1.00E-07	1.92E-07
HLA-B	0.55	down	1.00E-07	1.92E-07
ERRFI1	0.55	down	2.00E-07	3.51E-07
STAT2	0.55	down	2.00E-07	3.51E-07
VAMP5	0.55	down	2.00E-07	3.51E-07
HSD17B11	0.55	down	4.00E-07	6.42E-07
XAF1	0.55	down	6.00E-07	9.21E-07
FIP1L1	0.55	down	6.00E-07	9.21E-07
HCFC2	0.55	down	1.00E-06	1.46E-06

SPATA18	0.55	down	1.10E-06	1.58E-06
ARSK	0.55	down	1.10E-06	1.58E-06
SLC47A1	0.55	down	1.30E-06	1.84E-06
C9orf125	0.55	down	1.50E-06	2.10E-06
ARL4D	0.55	down	1.90E-06	2.61E-06
FAM111A	0.55	down	2.50E-06	3.35E-06
C7orf41	0.55	down	3.30E-06	4.34E-06
FAM49A	0.55	down	4.80E-06	6.11E-06
RAP1GAP2	0.55	down	5.00E-06	6.34E-06
PLAU	0.55	down	5.10E-06	6.44E-06
PPFIBP2	0.55	down	1.36E-05	1.61E-05
GPR77	0.55	down	1.52E-05	1.80E-05
IRF1	0.55	down	1.61E-05	1.90E-05
KCNN4	0.55	down	1.72E-05	2.02E-05
IFIH1	0.55	down	1.86E-05	2.18E-05
STYK1	0.55	down	7.02E-05	7.83E-05
SETBP1	0.55	down	0.0001201	0.000132
LOC644714	0.55	down	0.0002586	0.000277
F2RL2	0.54	down	8.47E-12	2.05E-10
RAPH1	0.54	down	2.23E-10	1.04E-09
PRKD1	0.54	down	5.04E-10	1.87E-09
SRGAP1	0.54	down	1.00E-07	1.92E-07
DTNA	0.54	down	1.00E-07	1.92E-07
NEDD9	0.54	down	1.00E-07	1.92E-07
STOM	0.54	down	1.00E-07	1.92E-07
CITED2	0.54	down	2.00E-07	3.51E-07
HLA-DMA	0.54	down	2.00E-07	3.51E-07
HLA-DMA	0.54	down	2.00E-07	3.51E-07
RNF213	0.54	down	3.00E-07	5.02E-07
C1orf21	0.54	down	4.00E-07	6.42E-07
AP1S2	0.54	down	4.00E-07	6.42E-07
HLA-DMA	0.54	down	4.00E-07	6.42E-07
TLE1	0.54	down	4.00E-07	6.42E-07
NMI	0.54	down	5.00E-07	7.84E-07
PRSS12	0.54	down	5.00E-07	7.84E-07
TMEM204	0.54	down	6.00E-07	9.21E-07
RILPL2	0.54	down	8.00E-07	1.19E-06
TENC1	0.54	down	1.10E-06	1.58E-06
IKBKB	0.54	down	1.10E-06	1.58E-06
NIPAL3	0.54	down	1.30E-06	1.84E-06
SCML2	0.54	down	1.30E-06	1.84E-06
PTGR1	0.54	down	1.50E-06	2.10E-06
C8orf31	0.54	down	1.80E-06	2.48E-06
ANK1	0.54	down	3.90E-06	5.06E-06
NHS	0.54	down	5.80E-06	7.27E-06
GABRA3	0.54	down	8.40E-06	1.03E-05
RAMP1	0.54	down	9.00E-06	1.10E-05
CPNE4	0.54	down	1.05E-05	1.27E-05
NES	0.54	down	1.23E-05	1.47E-05
WNT5B	0.54	down	2.02E-05	2.36E-05
ITGA10	0.54	down	3.83E-05	4.35E-05

RPTN	0.54	down	0.0006807	0.000714
PKP4	0.53	down	8.38E-10	2.76E-09
LAMA4	0.53	down	1.55E-09	4.18E-09
SLC16A4	0.53	down	1.00E-07	1.92E-07
C1R	0.53	down	1.00E-07	1.92E-07
CCPG1	0.53	down	1.00E-07	1.92E-07
SMURF2	0.53	down	1.00E-07	1.92E-07
MOCS2	0.53	down	1.00E-07	1.92E-07
MOXD1	0.53	down	1.00E-07	1.92E-07
PCDHB5	0.53	down	2.00E-07	3.51E-07
POPDC3	0.53	down	2.00E-07	3.51E-07
FAM38B	0.53	down	3.00E-07	5.02E-07
SLC38A5	0.53	down	5.00E-07	7.84E-07
PHF20	0.53	down	6.00E-07	9.21E-07
ND2	0.53	down	9.00E-07	1.33E-06
ARSE	0.53	down	1.00E-06	1.46E-06
OR4F15	0.53	down	1.10E-06	1.58E-06
FAM63A	0.53	down	7.70E-06	9.48E-06
PDGFD	0.53	down	1.07E-05	1.29E-05
SNAP25	0.53	down	3.65E-05	4.15E-05
LOC441956	0.53	down	5.15E-05	5.79E-05
IPCEF1	0.53	down	0.0001181	0.000129
SRPX	0.52	down	1.03E-11	2.12E-10
OR4F16	0.52	down	1.16E-11	2.12E-10
OR4F16	0.52	down	1.16E-11	2.12E-10
OR4F16	0.52	down	1.16E-11	2.12E-10
GSN	0.52	down	7.51E-11	5.53E-10
ATP8B1	0.52	down	7.60E-11	5.54E-10
PDLIM1	0.52	down	1.85E-10	9.70E-10
BTG1	0.52	down	2.05E-10	1.01E-09
PTPRM	0.52	down	2.54E-10	1.17E-09
CCL2	0.52	down	1.00E-07	1.92E-07
AREG	0.52	down	1.00E-07	1.92E-07
FAM3C	0.52	down	1.00E-07	1.92E-07
FAM3C	0.52	down	1.00E-07	1.92E-07
SYNE1	0.52	down	1.54E-07	1.77E-07
ZNFX1	0.52	down	2.00E-07	3.51E-07
ARHGEF9	0.52	down	2.00E-07	3.51E-07
OLFML2B	0.52	down	3.00E-07	5.02E-07
RDH5	0.52	down	3.00E-07	5.02E-07
FABP3	0.52	down	4.00E-07	6.42E-07
CDC14B	0.52	down	4.00E-07	6.42E-07
CD9	0.52	down	6.00E-07	9.21E-07
C9orf21	0.52	down	1.00E-06	1.46E-06
SP110	0.52	down	1.10E-06	1.58E-06
SCN2A	0.52	down	3.00E-06	3.97E-06
RTKN2	0.52	down	3.30E-06	4.34E-06
EFTUD1	0.52	down	4.10E-06	5.29E-06
C21orf63	0.52	down	6.20E-06	7.76E-06
PLGLB2	0.52	down	9.70E-06	1.18E-05
PLGLB2	0.52	down	9.70E-06	1.18E-05

CFHR1	0.52	down	2.12E-05	2.47E-05
EFTUD1	0.52	down	0.0001376	0.00015
C14orf37	0.51	down	1.02E-10	6.88E-10
SLC4A7	0.51	down	1.33E-09	3.78E-09
RASA4	0.51	down	4.67E-09	9.64E-09
RASA4	0.51	down	1.62E-08	2.54E-08
ARMC4	0.51	down	1.00E-07	1.92E-07
KCNIP3	0.51	down	1.00E-07	1.92E-07
C5orf41	0.51	down	1.00E-07	1.92E-07
HPS5	0.51	down	1.11E-07	1.32E-07
TMC7	0.51	down	2.00E-07	3.51E-07
SAMHD1	0.51	down	2.00E-07	3.51E-07
SHROOM3	0.51	down	2.00E-07	3.51E-07
PHYHD1	0.51	down	2.00E-07	3.51E-07
IL1R1	0.51	down	3.00E-07	5.02E-07
ADRB2	0.51	down	3.00E-07	5.02E-07
IFIT5	0.51	down	4.00E-07	6.42E-07
OR4F21	0.51	down	4.00E-07	6.42E-07
SPATA13	0.51	down	6.00E-07	9.21E-07
ATRNL1	0.51	down	1.10E-06	1.58E-06
MIR221	0.51	down	1.70E-06	2.36E-06
IFITM2	0.51	down	2.60E-06	3.47E-06
AGTPBP1	0.51	down	3.20E-06	4.22E-06
NHSL2	0.51	down	3.50E-06	4.58E-06
LOC284232	0.51	down	7.20E-06	8.88E-06
RASA4	0.51	down	8.00E-06	9.84E-06
WDR63	0.51	down	3.67E-05	4.17E-05
MARVELD2	0.51	down	4.07E-05	4.61E-05
MARVELD2	0.51	down	4.07E-05	4.61E-05
AKR1C2	0.51	down	0.0006403	0.000673
LTBP2	0.5	down	3.35E-11	3.25E-10
SOCS5	0.5	down	4.62E-10	1.77E-09
ATP9A	0.5	down	6.64E-09	1.28E-08
PEAR1	0.5	down	1.16E-08	1.98E-08
FAM111B	0.5	down	1.00E-07	1.92E-07
SMAGP	0.5	down	1.00E-07	1.92E-07
MOCOS	0.5	down	1.00E-07	1.92E-07
SLC6A6	0.5	down	1.00E-07	1.92E-07
PLCD1	0.5	down	1.00E-07	1.92E-07
HHIP	0.5	down	1.00E-07	1.92E-07
CA5B	0.5	down	1.00E-07	1.92E-07
LRRN4CL	0.5	down	2.00E-07	3.51E-07
HIST1H2BM	0.5	down	2.00E-07	3.51E-07
AMPH	0.5	down	2.00E-07	3.51E-07
HSPA4L	0.5	down	3.13E-07	3.39E-07
CYP4V2	0.5	down	4.00E-07	6.42E-07
HDAC9	0.5	down	4.00E-07	6.42E-07
DOCK4	0.5	down	4.00E-07	6.42E-07
RNASEK	0.5	down	5.00E-07	7.84E-07
TFPI	0.5	down	5.00E-07	7.84E-07
CXorf57	0.5	down	6.00E-07	9.21E-07

GDF5	0.5	down	8.00E-07	1.19E-06
CD302	0.5	down	1.20E-06	1.71E-06
LPAR6	0.5	down	3.20E-06	4.22E-06
SORBS2	0.5	down	3.30E-06	4.34E-06
CD4	0.5	down	6.60E-06	8.20E-06
MMP12	0.5	down	2.19E-05	2.54E-05
NRN1	0.5	down	4.53E-05	5.12E-05
KRTAP4-4	0.5	down	0.0005098	0.000536
VGLL3	0.49	down	3.50E-12	1.49E-10
PVRL3	0.49	down	1.32E-11	2.22E-10
NDRG1	0.49	down	1.24E-10	7.64E-10
ADD3	0.49	down	1.74E-10	9.28E-10
ARHGAP18	0.49	down	5.42E-10	1.94E-09
RASAL2	0.49	down	1.22E-08	2.04E-08
PCGF5	0.49	down	9.76E-08	1.18E-07
SLC7A8	0.49	down	1.00E-07	1.92E-07
CUEDC1	0.49	down	1.00E-07	1.92E-07
CD97	0.49	down	1.00E-07	1.92E-07
HSDL2	0.49	down	1.00E-07	1.92E-07
SNX18	0.49	down	1.95E-07	2.18E-07
DNM3	0.49	down	2.00E-07	3.51E-07
MNS1	0.49	down	2.00E-07	3.51E-07
GMFG	0.49	down	6.00E-07	9.21E-07
TSPAN7	0.49	down	8.00E-07	1.19E-06
C13orf15	0.49	down	2.50E-06	3.35E-06
DMPK	0.49	down	2.50E-06	3.35E-06
TCF19	0.49	down	2.50E-06	3.35E-06
ZNF367	0.49	down	4.10E-06	5.29E-06
BOC	0.49	down	9.60E-06	1.17E-05
AJAP1	0.49	down	1.33E-05	1.58E-05
GRIA1	0.49	down	1.82E-05	2.13E-05
LOC400931	0.49	down	4.60E-05	5.20E-05
COL10A1	0.49	down	0.0002525	0.00027
NT5E	0.48	down	1.50E-12	1.49E-10
CUBN	0.48	down	5.62E-11	4.47E-10
CCDC92	0.48	down	1.02E-10	6.88E-10
EMP2	0.48	down	1.17E-09	3.42E-09
ATL3	0.48	down	1.51E-09	4.14E-09
TSC22D1	0.48	down	1.59E-09	4.24E-09
FAM167A	0.48	down	2.04E-09	5.04E-09
EHBP1	0.48	down	1.00E-07	1.92E-07
ADA	0.48	down	1.00E-07	1.92E-07
HMOX1	0.48	down	1.00E-07	1.92E-07
LEPREL1	0.48	down	1.00E-07	1.92E-07
VWA5A	0.48	down	2.00E-07	3.51E-07
ZNF559	0.48	down	2.00E-07	3.51E-07
HIST1H2BF	0.48	down	2.00E-07	3.51E-07
TNXB	0.48	down	2.00E-07	3.51E-07
ZNF252	0.48	down	3.00E-07	5.02E-07
CFB	0.48	down	4.00E-07	6.42E-07
GPX3	0.48	down	7.00E-07	1.06E-06

RSAD2	0.48	down	8.00E-07	1.19E-06
EPB41L3	0.48	down	9.00E-07	1.33E-06
MSX2	0.48	down	1.00E-06	1.46E-06
AIM1	0.48	down	1.00E-06	1.46E-06
EPB41L4B	0.48	down	1.10E-06	1.58E-06
TCF19	0.48	down	1.70E-06	2.36E-06
TCF19	0.48	down	1.70E-06	2.36E-06
ANKRD5	0.48	down	3.14E-05	3.58E-05
HLA-DPB1	0.48	down	0.0002152	0.000232
HLA-DPB1	0.48	down	0.0002525	0.00027
IGFBP4	0.47	down	2.03E-12	1.49E-10
IGFBP5	0.47	down	3.38E-11	3.25E-10
MYO1B	0.47	down	3.77E-11	3.39E-10
ANKRD28	0.47	down	1.89E-10	9.83E-10
SHANK2	0.47	down	3.22E-10	1.42E-09
RNF141	0.47	down	4.51E-09	9.45E-09
DGKI	0.47	down	4.99E-09	1.02E-08
MMD	0.47	down	1.16E-08	1.98E-08
KIAA0355	0.47	down	7.40E-08	9.20E-08
GUCY1A2	0.47	down	1.00E-07	1.92E-07
C16orf45	0.47	down	1.00E-07	1.92E-07
PDK2	0.47	down	1.00E-07	1.92E-07
FAM176A	0.47	down	1.00E-07	1.92E-07
TMEM47	0.47	down	1.00E-07	1.92E-07
DPF3	0.47	down	2.00E-07	3.51E-07
CFB	0.47	down	2.00E-07	3.51E-07
GMPR	0.47	down	3.00E-07	5.02E-07
CTNND2	0.47	down	4.00E-07	6.42E-07
ERBB4	0.47	down	8.00E-07	1.19E-06
GPD2	0.47	down	1.10E-06	1.58E-06
SLC16A12	0.47	down	1.20E-06	1.71E-06
PCOLCE2	0.47	down	6.70E-06	8.29E-06
ABLM1	0.47	down	4.70E-05	5.30E-05
TM4SF1	0.46	down	2.58E-12	1.49E-10
COL6A1	0.46	down	5.24E-12	1.86E-10
APLP2	0.46	down	2.32E-11	2.72E-10
CDH13	0.46	down	4.86E-11	4.05E-10
SCFD2	0.46	down	3.84E-10	1.57E-09
KRTAP2-1	0.46	down	4.61E-09	9.58E-09
FAT4	0.46	down	6.46E-09	1.25E-08
KRTAP2-1	0.46	down	7.21E-09	1.36E-08
RNF213	0.46	down	1.11E-08	1.93E-08
KLF12	0.46	down	1.00E-07	1.92E-07
04. Mrz	0.46	down	1.00E-07	1.92E-07
PARP8	0.46	down	1.00E-07	1.92E-07
LRRK2	0.46	down	2.00E-07	3.51E-07
ID1	0.46	down	2.00E-07	3.51E-07
FAM38B	0.46	down	3.00E-07	5.02E-07
PTGER4	0.46	down	3.00E-07	5.02E-07
RASA4	0.46	down	3.00E-07	5.02E-07
BICC1	0.46	down	4.00E-07	6.42E-07

LY96	0.46	down	4.00E-07	6.42E-07
ATXN7L1	0.46	down	2.00E-06	2.74E-06
EPDR1	0.46	down	2.50E-06	3.35E-06
SLC6A17	0.46	down	3.10E-06	4.10E-06
RPSAP52	0.46	down	3.50E-06	4.58E-06
MRGPRF	0.46	down	4.50E-06	5.77E-06
C1orf183	0.46	down	6.70E-06	8.29E-06
GPR65	0.46	down	1.08E-05	1.30E-05
RASSF2	0.46	down	1.35E-05	1.60E-05
GALNTL1	0.46	down	0.0001112	0.000122
RGMB	0.45	down	1.88E-11	2.41E-10
INADL	0.45	down	1.26E-10	7.72E-10
FAM126A	0.45	down	1.19E-09	3.45E-09
FOXE1	0.45	down	1.61E-09	4.29E-09
MAP2K3	0.45	down	3.01E-08	4.31E-08
FZD7	0.45	down	4.63E-08	6.10E-08
RAB30	0.45	down	1.00E-07	1.92E-07
LRRC16A	0.45	down	1.00E-07	1.92E-07
APBB1IP	0.45	down	2.00E-07	3.51E-07
NR1D1	0.45	down	2.00E-07	3.51E-07
VIT	0.45	down	2.00E-07	3.51E-07
SCML1	0.45	down	2.00E-07	3.51E-07
C20orf103	0.45	down	4.00E-07	6.42E-07
EVI2A	0.45	down	8.00E-07	1.19E-06
FGL2	0.45	down	8.00E-07	1.19E-06
FNDC1	0.45	down	9.00E-07	1.33E-06
EXPH5	0.45	down	4.80E-06	6.11E-06
MIR218-1	0.45	down	1.23E-05	1.47E-05
PDGFRB	0.44	down	1.64E-11	2.38E-10
LMO7	0.44	down	2.04E-10	1.01E-09
SAV1	0.44	down	2.23E-10	1.04E-09
RBM24	0.44	down	7.19E-09	1.36E-08
LPCAT4	0.44	down	2.11E-08	3.16E-08
C14orf49	0.44	down	3.08E-08	4.36E-08
CPNE8	0.44	down	1.00E-07	1.92E-07
PELI2	0.44	down	1.00E-07	1.92E-07
CALHM2	0.44	down	1.63E-07	1.86E-07
AFF2	0.44	down	2.00E-07	3.51E-07
CFH	0.44	down	2.62E-07	2.88E-07
LOC402778	0.44	down	3.00E-07	5.02E-07
PHF11	0.44	down	3.00E-07	5.02E-07
IRF9	0.44	down	8.33E-07	8.55E-07
ZNF385D	0.44	down	2.00E-06	2.74E-06
ASB5	0.44	down	2.20E-06	2.98E-06
LOC729420	0.44	down	0.0001104	0.000121
AHR	0.43	down	1.82E-11	2.38E-10
ETHE1	0.43	down	8.20E-11	5.85E-10
UGCG	0.43	down	1.95E-10	9.92E-10
IRS1	0.43	down	1.30E-08	2.14E-08
MAMLD1	0.43	down	1.73E-08	2.70E-08
GRAMD3	0.43	down	3.41E-08	4.76E-08

PARP14	0.43	down	7.31E-08	9.10E-08
KCTD12	0.43	down	1.00E-07	1.92E-07
LOC400590	0.43	down	1.00E-07	1.92E-07
DOK1	0.43	down	1.57E-07	1.81E-07
RARG	0.43	down	1.60E-07	1.84E-07
SYCP2	0.43	down	2.00E-07	3.51E-07
ALS2CR11	0.43	down	4.00E-07	6.42E-07
SMAD6	0.43	down	5.00E-07	7.84E-07
FNDC4	0.43	down	5.73E-07	5.94E-07
KIRREL3	0.43	down	1.10E-06	1.58E-06
C6orf155	0.43	down	2.70E-06	3.60E-06
NCALD	0.43	down	4.10E-06	5.29E-06
DOCK10	0.42	down	8.89E-12	2.05E-10
SH3BP4	0.42	down	1.54E-09	4.17E-09
KRTAP1-3	0.42	down	3.59E-08	4.93E-08
KRTAP1-3	0.42	down	3.59E-08	4.93E-08
MTSS1L	0.42	down	7.27E-08	9.06E-08
ZFP36	0.42	down	1.00E-07	1.92E-07
CDYL2	0.42	down	1.60E-07	1.84E-07
SNORD114-6	0.42	down	2.00E-07	3.51E-07
OPCML	0.42	down	6.00E-07	9.21E-07
GPX7	0.42	down	1.00E-06	1.46E-06
ATP10A	0.42	down	2.10E-06	2.86E-06
CNTNAP2	0.42	down	2.32E-05	2.68E-05
LEPR	0.42	down	4.80E-05	5.41E-05
MT1M	0.42	down	0.0001243	0.000136
FBLN5	0.41	down	7.01E-12	2.04E-10
DSEL	0.41	down	3.18E-11	3.25E-10
LHFP	0.41	down	6.11E-11	4.75E-10
LIN7A	0.41	down	6.73E-10	2.35E-09
CDO1	0.41	down	1.19E-09	3.45E-09
ZEB2	0.41	down	1.35E-09	3.81E-09
ITGB8	0.41	down	3.88E-09	8.32E-09
RORA	0.41	down	5.01E-09	1.02E-08
SH2D4A	0.41	down	8.98E-09	1.63E-08
MBOAT1	0.41	down	1.00E-07	1.92E-07
CADPS2	0.41	down	1.00E-07	1.92E-07
CNIH3	0.41	down	2.00E-07	3.51E-07
PCDHB2	0.41	down	2.00E-07	3.51E-07
CRABP2	0.41	down	2.89E-07	3.14E-07
DAAM2	0.41	down	4.00E-07	6.42E-07
SEPP1	0.41	down	6.00E-07	9.21E-07
CCNE2	0.41	down	7.00E-07	1.06E-06
GHR	0.41	down	1.10E-06	1.58E-06
RUNX3	0.41	down	1.30E-06	1.84E-06
PABPC5	0.41	down	2.20E-06	2.98E-06
SHOX2	0.41	down	2.60E-06	3.47E-06
EPSTI1	0.41	down	2.70E-06	3.60E-06
IRF6	0.41	down	3.90E-06	5.06E-06
UPK1B	0.41	down	8.90E-06	1.09E-05
ANKRD30B	0.41	down	0.0001037	0.000114

PRRX1	0.4	down	2.53E-12	1.49E-10
RAB3B	0.4	down	1.63E-11	2.38E-10
CD109	0.4	down	2.58E-09	6.06E-09
LGALS3	0.4	down	1.44E-08	2.30E-08
FMOD	0.4	down	7.00E-08	8.76E-08
LOC84856	0.4	down	1.00E-07	1.92E-07
IGFBP6	0.4	down	1.00E-07	1.92E-07
GALNT3	0.4	down	1.00E-07	1.92E-07
DDX60	0.4	down	1.00E-07	1.92E-07
TMEM140	0.4	down	1.00E-07	1.92E-07
WWC1	0.4	down	1.03E-07	1.24E-07
PSG2	0.4	down	7.00E-07	1.06E-06
MOSC2	0.4	down	2.10E-06	2.86E-06
TBC1D2	0.39	down	9.49E-11	6.57E-10
APOBEC3B	0.39	down	2.14E-10	1.03E-09
HLA-DPA1	0.39	down	7.59E-10	2.55E-09
HLA-DPA1	0.39	down	7.59E-10	2.55E-09
NEFM	0.39	down	3.12E-09	7.03E-09
SECTM1	0.39	down	1.00E-07	1.92E-07
MSX1	0.39	down	1.00E-07	1.92E-07
SGK3	0.39	down	1.00E-07	1.92E-07
HLA-DPA1	0.39	down	1.00E-07	1.92E-07
OMD	0.39	down	4.00E-07	6.42E-07
ETV1	0.39	down	5.58E-07	5.80E-07
RARRES3	0.39	down	6.00E-07	9.21E-07
HIST2H2BE	0.39	down	8.30E-07	8.54E-07
SCD5	0.39	down	1.00E-06	1.46E-06
C17orf60	0.39	down	7.50E-06	9.24E-06
CACNA2D1	0.38	down	1.21E-11	2.15E-10
RND3	0.38	down	2.17E-11	2.63E-10
APPL2	0.38	down	1.36E-10	8.13E-10
MALL	0.38	down	1.71E-09	4.38E-09
JAG1	0.38	down	3.75E-08	5.09E-08
BAALC	0.38	down	2.00E-07	3.51E-07
SIX2	0.38	down	3.43E-07	3.70E-07
RORB	0.38	down	1.30E-06	1.84E-06
DOK5	0.38	down	2.10E-06	2.86E-06
TXNIP	0.37	down	7.70E-11	5.55E-10
ADM	0.37	down	3.55E-10	1.52E-09
KRTAP2-4	0.37	down	3.69E-10	1.54E-09
KRTAP2-4	0.37	down	3.69E-10	1.54E-09
TCEA3	0.37	down	5.89E-09	1.15E-08
CMKLR1	0.37	down	1.00E-07	1.92E-07
EDA2R	0.37	down	1.00E-07	1.92E-07
GRAMD1B	0.37	down	1.72E-07	1.95E-07
DUSP5	0.37	down	2.87E-07	3.12E-07
HOMER2	0.37	down	3.00E-07	5.02E-07
C10orf116	0.37	down	1.20E-06	1.71E-06
NGF	0.37	down	2.50E-06	3.35E-06
PSG1	0.37	down	0.0002308	0.000248
PSG3	0.37	down	0.0003691	0.000392

PDGFRA	0.36	down	1.11E-11	2.12E-10
PROS1	0.36	down	1.54E-11	2.38E-10
COL14A1	0.36	down	1.09E-09	3.31E-09
TEC	0.36	down	2.56E-09	6.06E-09
MGLL	0.36	down	5.30E-09	1.06E-08
HPCAL1	0.36	down	7.84E-08	9.69E-08
SYTL2	0.36	down	1.00E-07	1.92E-07
TTC39C	0.36	down	1.00E-07	1.92E-07
TBC1D8	0.36	down	2.00E-07	3.51E-07
DCLK1	0.36	down	4.00E-07	6.42E-07
STK32B	0.36	down	1.10E-06	1.58E-06
HLA-DPB1	0.36	down	2.48E-05	2.85E-05
PLAT	0.35	down	5.59E-12	1.86E-10
CCRL1	0.35	down	1.10E-10	7.20E-10
SERPING1	0.35	down	8.00E-10	2.66E-09
SERPINF1	0.35	down	9.05E-10	2.91E-09
ADAMTS2	0.35	down	1.67E-09	4.34E-09
CDH6	0.35	down	2.87E-09	6.58E-09
PTPRG	0.35	down	5.52E-09	1.09E-08
SPRY2	0.35	down	7.43E-09	1.39E-08
PORCN	0.35	down	1.97E-08	2.98E-08
ACSS3	0.35	down	3.02E-08	4.31E-08
APOL6	0.35	down	4.29E-08	5.70E-08
NAP1L3	0.35	down	8.22E-08	1.01E-07
MX2	0.35	down	1.00E-07	1.92E-07
NR4A3	0.35	down	1.00E-07	1.92E-07
CNKSR3	0.35	down	2.33E-07	2.59E-07
ZMAT1	0.35	down	4.00E-07	6.42E-07
DTX3L	0.35	down	4.48E-07	4.72E-07
CXCL16	0.35	down	1.10E-06	1.58E-06
TGFBR3	0.35	down	2.05E-06	2.05E-06
ZDHHC15	0.35	down	2.80E-06	3.72E-06
SNED1	0.35	down	3.70E-06	4.83E-06
STAC	0.35	down	4.20E-06	5.41E-06
SNORA20	0.35	down	6.60E-06	8.20E-06
MARK1	0.35	down	1.17E-05	1.40E-05
FBN2	0.34	down	3.29E-12	1.49E-10
MYCT1	0.34	down	1.12E-11	2.12E-10
RGS7	0.34	down	2.89E-10	1.30E-09
PALMD	0.34	down	6.99E-10	2.42E-09
ZNF415	0.34	down	6.03E-09	1.17E-08
EFNA5	0.34	down	2.35E-08	3.46E-08
LAMA2	0.34	down	2.92E-08	4.21E-08
SVIL	0.34	down	2.80E-07	3.06E-07
GFRA2	0.34	down	6.46E-05	7.23E-05
PCDH18	0.33	down	3.98E-11	3.53E-10
ITPR3	0.33	down	2.50E-09	5.97E-09
DENND3	0.33	down	6.89E-09	1.31E-08
MAFIP	0.33	down	7.84E-09	1.45E-08
NR4A2	0.33	down	1.14E-08	1.96E-08
CPS1	0.33	down	1.59E-08	2.50E-08

TIAM2	0.33	down	1.65E-08	2.58E-08
PRKAA2	0.33	down	2.26E-08	3.34E-08
NAALADL2	0.33	down	4.54E-08	5.99E-08
PROS1	0.33	down	1.00E-07	1.92E-07
ANKFN1	0.33	down	2.00E-07	3.51E-07
RCAN2	0.33	down	3.80E-06	4.95E-06
LPAR1	0.32	down	5.63E-12	1.86E-10
PPP4R4	0.32	down	7.41E-10	2.55E-09
NRG1	0.32	down	1.14E-09	3.42E-09
MYO1D	0.32	down	4.23E-09	8.95E-09
AMOT	0.32	down	1.30E-08	2.14E-08
EML1	0.32	down	3.65E-08	5.00E-08
DSP	0.32	down	3.67E-08	5.00E-08
PPARG	0.32	down	1.00E-07	1.92E-07
PSMB9	0.32	down	1.00E-07	1.92E-07
EYA1	0.32	down	1.00E-07	1.92E-07
PSMB9	0.32	down	1.00E-07	1.92E-07
PSMB9	0.32	down	1.00E-07	1.92E-07
CPE	0.32	down	1.17E-07	1.38E-07
LARGE	0.32	down	1.33E-07	1.55E-07
STAMBPL1	0.32	down	1.54E-07	1.78E-07
TNXA	0.32	down	3.00E-07	5.02E-07
TNXB	0.32	down	7.00E-07	1.06E-06
TNXB	0.32	down	7.00E-07	1.06E-06
SLC12A6	0.32	down	9.30E-07	9.51E-07
NOTCH3	0.32	down	1.95E-06	1.96E-06
OSR2	0.32	down	2.60E-06	3.47E-06
CAMK2D	0.31	down	3.71E-10	1.54E-09
TRIB2	0.31	down	2.21E-09	5.39E-09
ANK3	0.31	down	2.72E-09	6.29E-09
LOXL3	0.31	down	1.43E-08	2.28E-08
ECM1	0.31	down	3.87E-08	5.23E-08
PTGIS	0.31	down	3.92E-08	5.28E-08
USP18	0.31	down	5.36E-08	6.90E-08
CCDC23	0.31	down	2.00E-07	3.51E-07
PRSS23	0.31	down	2.00E-07	3.51E-07
CPT1A	0.31	down	7.41E-07	7.65E-07
IGFBP2	0.31	down	7.58E-07	7.82E-07
PRRX2	0.31	down	1.41E-06	1.43E-06
CXCL10	0.3	down	1.93E-10	9.91E-10
SEMA3A	0.3	down	2.15E-10	1.03E-09
HTRA1	0.3	down	3.48E-10	1.51E-09
TMEM171	0.3	down	3.72E-09	8.05E-09
SYT14	0.3	down	5.11E-09	1.03E-08
JAM2	0.3	down	1.15E-08	1.96E-08
FBLN1	0.3	down	1.79E-08	2.75E-08
EPHB1	0.3	down	3.17E-08	4.48E-08
FAM107B	0.3	down	4.68E-08	6.14E-08
EYA2	0.3	down	2.00E-07	3.51E-07
S100A4	0.3	down	3.00E-07	5.02E-07
OAS1	0.3	down	4.00E-07	6.42E-07

FAM162B	0.3	down	1.80E-06	1.82E-06
PMP22	0.29	down	2.11E-11	2.63E-10
RELN	0.29	down	9.81E-09	1.75E-08
SLC1A1	0.29	down	1.09E-08	1.90E-08
PNPLA3	0.29	down	1.40E-08	2.25E-08
CAB39L	0.29	down	1.85E-08	2.84E-08
FAM69A	0.29	down	1.00E-07	1.92E-07
LOC389834	0.29	down	1.00E-07	1.92E-07
GRPR	0.29	down	3.00E-07	5.02E-07
TCF21	0.29	down	4.88E-07	5.13E-07
WISP1	0.29	down	1.60E-06	2.23E-06
CYTH3	0.28	down	3.64E-10	1.54E-09
SLITRK1	0.28	down	2.44E-09	5.84E-09
CPEB2	0.28	down	1.00E-08	1.78E-08
FLG	0.28	down	1.26E-08	2.08E-08
KIAA1644	0.28	down	1.00E-07	1.92E-07
CHST15	0.28	down	1.30E-06	1.84E-06
DCN	0.27	down	8.35E-12	2.05E-10
GPNMB	0.27	down	1.14E-10	7.39E-10
SERPINI1	0.27	down	2.18E-10	1.04E-09
SVEP1	0.27	down	9.53E-10	3.03E-09
NRG1	0.27	down	1.42E-09	3.92E-09
ZFP36L2	0.27	down	1.53E-09	4.17E-09
GSTM5	0.27	down	7.23E-09	1.36E-08
PARP9	0.27	down	8.96E-09	1.63E-08
CLSTN2	0.27	down	3.03E-08	4.31E-08
PRR16	0.27	down	8.60E-08	1.05E-07
ABCC9	0.27	down	1.00E-07	1.92E-07
SLCO3A1	0.27	down	1.38E-07	1.60E-07
INA	0.27	down	2.21E-07	2.46E-07
FOXF2	0.27	down	5.00E-07	7.84E-07
PAMR1	0.26	down	3.49E-10	1.51E-09
LGR5	0.26	down	1.15E-09	3.42E-09
SERPINA9	0.26	down	1.31E-08	2.14E-08
PRELP	0.26	down	1.78E-08	2.75E-08
GALNT14	0.26	down	4.68E-08	6.14E-08
PLA2G4A	0.26	down	1.09E-07	1.30E-07
WNT2B	0.26	down	1.47E-07	1.71E-07
ALX1	0.26	down	2.00E-07	3.51E-07
C8orf79	0.26	down	2.72E-07	2.98E-07
C10orf72	0.26	down	9.00E-07	1.33E-06
MAMDC2	0.26	down	1.00E-06	1.46E-06
NMT2	0.25	down	5.38E-10	1.94E-09
RNF150	0.25	down	1.58E-09	4.24E-09
C4orf22	0.25	down	1.67E-09	4.34E-09
TMEM132B	0.25	down	1.76E-09	4.43E-09
C14orf139	0.25	down	5.84E-09	1.15E-08
MAFIP	0.25	down	1.78E-08	2.75E-08
LDB2	0.25	down	2.26E-08	3.34E-08
MAFIP	0.25	down	3.28E-08	4.60E-08
AEBP1	0.25	down	3.91E-08	5.28E-08

STS	0.25	down	1.51E-07	1.75E-07
CPXM2	0.25	down	2.00E-07	3.51E-07
DLX5	0.25	down	2.00E-07	3.51E-07
C8orf79	0.25	down	5.00E-07	7.84E-07
BARX1	0.25	down	8.00E-07	1.19E-06
IGFBP3	0.24	down	1.77E-11	2.38E-10
ITGA7	0.24	down	3.09E-10	1.38E-09
FLJ38894	0.24	down	2.61E-09	6.09E-09
CMAH	0.24	down	4.47E-09	9.41E-09
PITPNC1	0.24	down	1.90E-08	2.90E-08
C7orf58	0.24	down	3.22E-08	4.54E-08
MYPN	0.24	down	6.60E-08	8.35E-08
STEAP2	0.24	down	6.99E-08	8.76E-08
NPTX1	0.24	down	9.64E-08	1.16E-07
ARL4C	0.24	down	1.71E-06	1.73E-06
TMTC1	0.23	down	1.02E-09	3.18E-09
SERTAD4	0.23	down	5.90E-09	1.15E-08
HERC6	0.23	down	9.57E-09	1.72E-08
CACNA1C	0.23	down	2.90E-08	4.18E-08
NOV	0.23	down	4.93E-08	6.45E-08
ESM1	0.23	down	5.61E-08	7.18E-08
DLX1	0.23	down	7.42E-08	9.20E-08
PDE3A	0.22	down	1.16E-09	3.42E-09
ANGPT1	0.22	down	1.33E-08	2.17E-08
DLX2	0.22	down	1.30E-06	1.84E-06
STAT1	0.21	down	7.08E-12	2.04E-10
KIAA1199	0.21	down	2.56E-09	6.06E-09
SAMD9L	0.21	down	6.06E-09	1.18E-08
MR1	0.21	down	1.20E-08	2.03E-08
RNF144B	0.21	down	9.18E-08	1.11E-07
MRAP2	0.21	down	1.00E-07	1.92E-07
KLF4	0.21	down	2.59E-07	2.85E-07
KCND3	0.21	down	3.00E-07	5.02E-07
SOCS2	0.21	down	3.53E-07	3.78E-07
C11orf87	0.21	down	6.12E-07	6.33E-07
SLC2A12	0.2	down	3.00E-09	6.80E-09
MX1	0.2	down	1.00E-07	1.92E-07
KIT	0.2	down	2.00E-07	3.51E-07
IFI30	0.2	down	9.85E-07	1.00E-06
LPHN2	0.19	down	2.19E-10	1.04E-09
ANKRD30B	0.19	down	3.37E-09	7.46E-09
SGCD	0.19	down	4.63E-09	9.59E-09
SEMA6D	0.19	down	1.49E-08	2.37E-08
TLR3	0.19	down	2.36E-07	2.61E-07
F2R	0.18	down	1.81E-11	2.38E-10
GRIA3	0.18	down	1.21E-09	3.47E-09
AOX1	0.18	down	1.13E-08	1.95E-08
PLCE1	0.18	down	1.17E-08	1.98E-08
WNT16	0.18	down	1.46E-08	2.33E-08
IFIT3	0.18	down	2.65E-08	3.85E-08
NFASC	0.18	down	6.93E-08	8.70E-08

OAS3	0.18	down	1.00E-07	1.92E-07
CPM	0.18	down	1.76E-07	1.99E-07
CST2	0.18	down	3.00E-07	5.02E-07
EBF1	0.18	down	3.61E-07	3.86E-07
IGF2	0.18	down	9.79E-07	9.99E-07
KLHL13	0.17	down	4.86E-09	9.98E-09
SESN3	0.17	down	3.39E-08	4.74E-08
HECW2	0.17	down	4.47E-08	5.92E-08
LHX8	0.17	down	8.08E-08	9.93E-08
IFIT2	0.17	down	1.00E-07	1.92E-07
HEPH	0.17	down	1.00E-07	1.92E-07
SCUBE3	0.17	down	1.50E-07	1.74E-07
LRRC15	0.17	down	4.84E-07	5.09E-07
MAB21L1	0.16	down	1.56E-11	2.38E-10
FGF5	0.16	down	1.05E-09	3.25E-09
IFI44	0.16	down	1.34E-09	3.78E-09
IFIT1	0.16	down	3.87E-09	8.32E-09
DNAJC6	0.16	down	5.05E-09	1.03E-08
XG	0.16	down	8.51E-09	1.57E-08
EBF2	0.16	down	3.73E-08	5.07E-08
SIPA1L2	0.16	down	4.23E-08	5.63E-08
B3GALT2	0.16	down	4.68E-08	6.14E-08
ELN	0.16	down	5.36E-08	6.90E-08
SATB1	0.16	down	1.77E-07	2.00E-07
TMEM119	0.16	down	1.20E-06	1.71E-06
AK5	0.15	down	2.78E-11	2.98E-10
EBF3	0.15	down	9.18E-11	6.42E-10
CCBE1	0.15	down	1.29E-09	3.68E-09
ELFN1	0.15	down	4.47E-09	9.41E-09
ABI3BP	0.14	down	1.09E-11	2.12E-10
ITGBL1	0.14	down	2.25E-11	2.68E-10
FST	0.14	down	3.69E-11	3.39E-10
GBP3	0.14	down	3.94E-10	1.59E-09
CRYAB	0.14	down	7.58E-10	2.55E-09
IFI6	0.14	down	6.93E-09	1.32E-08
IFITM1	0.14	down	8.79E-09	1.61E-08
ACAN	0.14	down	6.55E-08	8.30E-08
STEAP1	0.14	down	9.82E-07	1.00E-06
ADAMTS1	0.13	down	3.96E-10	1.59E-09
EPHA5	0.13	down	3.88E-09	8.32E-09
USP18	0.13	down	8.54E-09	1.57E-08
FMN2	0.13	down	1.36E-08	2.19E-08
GABBR2	0.13	down	1.96E-08	2.96E-08
IL7R	0.13	down	3.96E-08	5.32E-08
OLFM2	0.12	down	1.66E-09	4.34E-09
PSG7	0.12	down	5.49E-09	1.09E-08
CXCL12	0.12	down	1.08E-08	1.89E-08
C4orf31	0.12	down	1.35E-07	1.58E-07
LOC344887	0.12	down	3.17E-07	3.42E-07
NLRP10	0.11	down	3.86E-10	1.57E-09
SERPINB2	0.11	down	3.98E-10	1.59E-09

KCNK2	0.11	down	1.36E-09	3.82E-09
PDE5A	0.11	down	1.93E-09	4.85E-09
NEK10	0.11	down	4.59E-09	9.56E-09
VSNL1	0.11	down	7.26E-09	1.36E-08
PENK	0.11	down	4.94E-07	5.18E-07
GALNT5	0.1	down	2.07E-08	3.11E-08
EYA4	0.1	down	7.46E-08	9.23E-08
BEX1	0.097	down	2.65E-07	2.91E-07
SATB2	0.096	down	6.30E-11	4.84E-10
TNFRSF11B	0.096	down	5.19E-08	6.74E-08
EMP1	0.093	down	4.71E-10	1.79E-09
TM4SF20	0.093	down	1.13E-08	1.96E-08
ANKRD29	0.093	down	1.83E-07	2.06E-07
APCDD1	0.093	down	2.65E-07	2.91E-07
SAMD9	0.09	down	2.69E-11	2.96E-10
PDE1C	0.089	down	7.66E-09	1.43E-08
SFRP1	0.089	down	6.73E-08	8.48E-08
SERINC2	0.087	down	3.44E-08	4.79E-08
KRT34	0.085	down	3.44E-09	7.54E-09
SNTB1	0.084	down	1.04E-10	6.89E-10
NTNG1	0.084	down	1.54E-07	1.77E-07
COLEC12	0.084	down	1.18E-06	1.20E-06
CTSK	0.081	down	4.46E-10	1.72E-09
TFAP2C	0.078	down	1.49E-10	8.37E-10
OSR1	0.076	down	4.24E-10	1.68E-09
SLC14A1	0.075	down	5.08E-09	1.03E-08
PSG5	0.075	down	5.24E-07	5.49E-07
KRTAP1-1	0.073	down	1.21E-08	2.04E-08
KRTAP1-1	0.073	down	1.21E-08	2.04E-08
PPAP2B	0.07	down	2.14E-11	2.63E-10
EPGN	0.066	down	5.08E-09	1.03E-08
NLGN1	0.063	down	4.01E-09	8.54E-09
TOX	0.062	down	8.91E-10	2.88E-09
GCNT4	0.06	down	1.79E-08	2.75E-08
OAS2	0.06	down	2.05E-07	2.30E-07
IFI44L	0.057	down	1.17E-08	1.99E-08
MKX	0.056	down	2.34E-07	2.59E-07
CYP1B1	0.055	down	1.73E-09	4.40E-09
NTN4	0.054	down	1.70E-09	4.38E-09
NPR3	0.051	down	2.29E-09	5.56E-09
GREM2	0.05	down	1.08E-09	3.29E-09
FMN1	0.05	down	2.40E-09	5.78E-09
MGC87042	0.046	down	1.19E-09	3.45E-09
PTGS1	0.043	down	1.07E-09	3.28E-09
PLCB4	0.041	down	2.70E-11	2.96E-10
LPPR4	0.041	down	3.99E-07	4.26E-07
ENPP2	0.04	down	1.28E-09	3.65E-09
OLFML1	0.039	down	3.18E-09	7.13E-09
CST1	0.036	down	5.38E-09	1.08E-08
SIX1	0.033	down	4.27E-10	1.68E-09
FAM180A	0.032	down	7.45E-10	2.55E-09

C5orf23	0.031	down	6.78E-08	8.53E-08
PAX9	0.031	down	9.35E-08	1.13E-07
KRTAP1-1	0.023	down	2.20E-09	5.39E-09
KRTAP1-5	0.019	down	3.73E-11	3.39E-10
KRTAP1-5	0.019	down	3.73E-11	3.39E-10
ITGA8	0.017	down	1.41E-10	8.14E-10

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Supplementary table 3. Significantly different genes between WJCMSCs and PDLSCs

Gene Symbol	WJCMSCs_Degree	PDLSCs_Degree	K1-WJCMSCs	K1-PDLSCs	DiffK	DiffK
MAFIP	10	20	0.384615385	0.909090909	-0.524475524	0.524475524
CLDN1	4	11	0.153846154	0.5	-0.346153846	0.346153846
AKR1C1	3	10	0.115384615	0.454545455	-0.339160839	0.339160839
FLNB	2	9	0.076923077	0.409090909	-0.332167832	0.332167832
CCNE2	4	10	0.153846154	0.454545455	-0.300699301	0.300699301
MLLT11	4	10	0.153846154	0.454545455	-0.300699301	0.300699301
ZFP14	2	8	0.076923077	0.363636364	-0.286713287	0.286713287
KCNK2	7	12	0.269230769	0.545454545	-0.276223776	0.276223776
TGFB2	4	9	0.153846154	0.409090909	-0.255244755	0.255244755
ODZ4	9	2	0.346153846	0.090909091	0.255244755	0.255244755
KCNG1	10	14	0.384615385	0.636363636	-0.251748252	0.251748252
DPP4	3	8	0.115384615	0.363636364	-0.248251748	0.248251748
PRSS35	3	8	0.115384615	0.363636364	-0.248251748	0.248251748
APBB2	1	6	0.038461538	0.272727273	-0.234265734	0.234265734
HOXC8	7	1	0.269230769	0.045454545	0.223776224	0.223776224
CD9	6	10	0.230769231	0.454545455	-0.223776224	0.223776224
NEU1	12	15	0.461538462	0.681818182	-0.22027972	0.22027972
SMAD6	8	2	0.307692308	0.090909091	0.216783217	0.216783217
LMO3	5	9	0.192307692	0.409090909	-0.216783217	0.216783217
NOX4	5	9	0.192307692	0.409090909	-0.216783217	0.216783217
F2RL1	9	3	0.346153846	0.136363636	0.20979021	0.20979021
IL11RA	9	3	0.346153846	0.136363636	0.20979021	0.20979021

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FGF7	4	8	0.153846154	0.363636364	-0.20979021	0.20979021
FMN2	4	8	0.153846154	0.363636364	-0.20979021	0.20979021
SLC38A1	4	8	0.153846154	0.363636364	-0.20979021	0.20979021
IL7R	10	4	0.384615385	0.181818182	0.202797203	0.202797203
TMEM173	10	4	0.384615385	0.181818182	0.202797203	0.202797203
DSG2	3	7	0.115384615	0.318181818	-0.202797203	0.202797203
GFRA2	3	7	0.115384615	0.318181818	-0.202797203	0.202797203
GABRE	2	6	0.076923077	0.272727273	-0.195804196	0.195804196
ELOVL2	7	10	0.269230769	0.454545455	-0.185314685	0.185314685
GDF5	6	1	0.230769231	0.045454545	0.185314685	0.185314685
CCND2	6	9	0.230769231	0.409090909	-0.178321678	0.178321678
OR51E2	6	9	0.230769231	0.409090909	-0.178321678	0.178321678
AEBP1	7	2	0.269230769	0.090909091	0.178321678	0.178321678
HIVEP2	7	2	0.269230769	0.090909091	0.178321678	0.178321678
PDK2	7	2	0.269230769	0.090909091	0.178321678	0.178321678
SNCA	7	2	0.269230769	0.090909091	0.178321678	0.178321678
TDRD1	7	2	0.269230769	0.090909091	0.178321678	0.178321678
AVEN	8	3	0.307692308	0.136363636	0.171328671	0.171328671
CDCA7L	8	3	0.307692308	0.136363636	0.171328671	0.171328671
SKIL	8	3	0.307692308	0.136363636	0.171328671	0.171328671
ZNF286A	8	3	0.307692308	0.136363636	0.171328671	0.171328671
CARD11	5	8	0.192307692	0.363636364	-0.171328671	0.171328671
IL1RAP	5	8	0.192307692	0.363636364	-0.171328671	0.171328671
PLA2G4A	5	8	0.192307692	0.363636364	-0.171328671	0.171328671

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ST8SIA4	5	8	0.192307692	0.363636364	-0.171328671	0.171328671
TFPI	5	8	0.192307692	0.363636364	-0.171328671	0.171328671
TCF19	15	9	0.576923077	0.409090909	0.167832168	0.167832168
CREB5	9	4	0.346153846	0.181818182	0.164335664	0.164335664
ERRFI1	9	4	0.346153846	0.181818182	0.164335664	0.164335664
ITGB3	9	4	0.346153846	0.181818182	0.164335664	0.164335664
LOXL3	9	4	0.346153846	0.181818182	0.164335664	0.164335664
PRSS12	9	4	0.346153846	0.181818182	0.164335664	0.164335664
SCG5	9	4	0.346153846	0.181818182	0.164335664	0.164335664
BEX1	4	7	0.153846154	0.318181818	-0.164335664	0.164335664
PLCD1	4	7	0.153846154	0.318181818	-0.164335664	0.164335664
RHOU	4	7	0.153846154	0.318181818	-0.164335664	0.164335664
RBM24	10	12	0.384615385	0.545454545	-0.160839161	0.160839161
CLCN5	3	6	0.115384615	0.272727273	-0.157342657	0.157342657
HOXC5	3	6	0.115384615	0.272727273	-0.157342657	0.157342657
SMAD1	3	6	0.115384615	0.272727273	-0.157342657	0.157342657
WWC1	3	6	0.115384615	0.272727273	-0.157342657	0.157342657
B3GALT2	2	5	0.076923077	0.227272727	-0.15034965	0.15034965
IRS1	2	5	0.076923077	0.227272727	-0.15034965	0.15034965
WNK4	2	5	0.076923077	0.227272727	-0.15034965	0.15034965
FOSL1	8	10	0.307692308	0.454545455	-0.146853147	0.146853147
P4HA3	8	10	0.307692308	0.454545455	-0.146853147	0.146853147
FOXF2	6	2	0.230769231	0.090909091	0.13986014	0.13986014
ATP8B1	7	3	0.269230769	0.136363636	0.132867133	0.132867133

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DLX1	7	3	0.269230769	0.136363636	0.132867133	0.132867133
FIP1L1	7	3	0.269230769	0.136363636	0.132867133	0.132867133
HTR1D	7	3	0.269230769	0.136363636	0.132867133	0.132867133
ITGA2	7	3	0.269230769	0.136363636	0.132867133	0.132867133
NCALD	7	3	0.269230769	0.136363636	0.132867133	0.132867133
XRCC4	7	3	0.269230769	0.136363636	0.132867133	0.132867133
ACOX2	6	8	0.230769231	0.363636364	-0.132867133	0.132867133
PTPRM	6	8	0.230769231	0.363636364	-0.132867133	0.132867133
RASAL2	6	8	0.230769231	0.363636364	-0.132867133	0.132867133
ROR2	6	8	0.230769231	0.363636364	-0.132867133	0.132867133
HLA-DPB1	12	13	0.461538462	0.590909091	-0.129370629	0.129370629
NRG1	14	9	0.538461538	0.409090909	0.129370629	0.129370629
BHLHE40	8	4	0.307692308	0.181818182	0.125874126	0.125874126
IER3	8	4	0.307692308	0.181818182	0.125874126	0.125874126
KCNIP3	8	4	0.307692308	0.181818182	0.125874126	0.125874126
PLOD2	8	4	0.307692308	0.181818182	0.125874126	0.125874126
SKAP2	8	4	0.307692308	0.181818182	0.125874126	0.125874126
STAC	8	4	0.307692308	0.181818182	0.125874126	0.125874126
CTNND2	5	7	0.192307692	0.318181818	-0.125874126	0.125874126
KIR2DL3	5	7	0.192307692	0.318181818	-0.125874126	0.125874126
LPAR1	5	7	0.192307692	0.318181818	-0.125874126	0.125874126
MARK1	5	7	0.192307692	0.318181818	-0.125874126	0.125874126
OASL	5	7	0.192307692	0.318181818	-0.125874126	0.125874126
SFRP1	5	7	0.192307692	0.318181818	-0.125874126	0.125874126

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TYRP1	5	7	0.192307692	0.318181818	-0.125874126	0.125874126
OSR2	9	5	0.346153846	0.227272727	0.118881119	0.118881119
BMP6	4	6	0.153846154	0.272727273	-0.118881119	0.118881119
CAMK1D	4	6	0.153846154	0.272727273	-0.118881119	0.118881119
PTPRU	4	6	0.153846154	0.272727273	-0.118881119	0.118881119
ZFP57	4	6	0.153846154	0.272727273	-0.118881119	0.118881119
DCLK1	3	5	0.115384615	0.227272727	-0.111888112	0.111888112
MYH10	3	5	0.115384615	0.227272727	-0.111888112	0.111888112
PKP4	3	5	0.115384615	0.227272727	-0.111888112	0.111888112
VLDLR	3	5	0.115384615	0.227272727	-0.111888112	0.111888112
RND3	9	10	0.346153846	0.454545455	-0.108391608	0.108391608
GRIA1	2	4	0.076923077	0.181818182	-0.104895105	0.104895105
LIN7A	2	4	0.076923077	0.181818182	-0.104895105	0.104895105
AP1S2	8	9	0.307692308	0.409090909	-0.101398601	0.101398601
CADPS2	8	9	0.307692308	0.409090909	-0.101398601	0.101398601
MOXD1	5	2	0.192307692	0.090909091	0.101398601	0.101398601
PELI1	5	2	0.192307692	0.090909091	0.101398601	0.101398601
PLCE1	5	2	0.192307692	0.090909091	0.101398601	0.101398601
SLC16A4	5	2	0.192307692	0.090909091	0.101398601	0.101398601
ATRNL1	7	8	0.269230769	0.363636364	-0.094405594	0.094405594
KCNN4	7	8	0.269230769	0.363636364	-0.094405594	0.094405594
PTCH1	7	8	0.269230769	0.363636364	-0.094405594	0.094405594
RGS2	7	8	0.269230769	0.363636364	-0.094405594	0.094405594
SCFD2	7	8	0.269230769	0.363636364	-0.094405594	0.094405594

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SLC4A7	7	8	0.269230769	0.363636364	-0.094405594	0.094405594
ATP2B1	6	3	0.230769231	0.136363636	0.094405594	0.094405594
CXCL6	6	3	0.230769231	0.136363636	0.094405594	0.094405594
DUSP5	6	3	0.230769231	0.136363636	0.094405594	0.094405594
SLCO3A1	6	3	0.230769231	0.136363636	0.094405594	0.094405594
ADA	7	4	0.269230769	0.181818182	0.087412587	0.087412587
DHCR7	7	4	0.269230769	0.181818182	0.087412587	0.087412587
GPR126	7	4	0.269230769	0.181818182	0.087412587	0.087412587
ITGA4	7	4	0.269230769	0.181818182	0.087412587	0.087412587
NLGN1	7	4	0.269230769	0.181818182	0.087412587	0.087412587
OLR1	7	4	0.269230769	0.181818182	0.087412587	0.087412587
PPARG	7	4	0.269230769	0.181818182	0.087412587	0.087412587
PRKAA2	7	4	0.269230769	0.181818182	0.087412587	0.087412587
RHOF	7	4	0.269230769	0.181818182	0.087412587	0.087412587
AMOT	6	7	0.230769231	0.318181818	-0.087412587	0.087412587
GATA6	6	7	0.230769231	0.318181818	-0.087412587	0.087412587
IL32	6	7	0.230769231	0.318181818	-0.087412587	0.087412587
IRF1	6	7	0.230769231	0.318181818	-0.087412587	0.087412587
OR10P1	6	7	0.230769231	0.318181818	-0.087412587	0.087412587
SLC16A12	6	7	0.230769231	0.318181818	-0.087412587	0.087412587
ID1	8	5	0.307692308	0.227272727	0.08041958	0.08041958
SLC7A2	8	5	0.307692308	0.227272727	0.08041958	0.08041958
STAT5B	8	5	0.307692308	0.227272727	0.08041958	0.08041958
CYP4V2	5	6	0.192307692	0.272727273	-0.08041958	0.08041958

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DUSP4	5	6	0.192307692	0.272727273	-0.08041958	0.08041958
KIAA1598	5	6	0.192307692	0.272727273	-0.08041958	0.08041958
MAMLD1	5	6	0.192307692	0.272727273	-0.08041958	0.08041958
STAT1	5	6	0.192307692	0.272727273	-0.08041958	0.08041958
USP9Y	5	6	0.192307692	0.272727273	-0.08041958	0.08041958
KIR3DL1	4	5	0.153846154	0.227272727	-0.073426573	0.073426573
SEMA3A	4	5	0.153846154	0.227272727	-0.073426573	0.073426573
CITED2	10	7	0.384615385	0.318181818	0.066433566	0.066433566
GABBR2	10	7	0.384615385	0.318181818	0.066433566	0.066433566
WNT16	10	7	0.384615385	0.318181818	0.066433566	0.066433566
C3	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
ERN1	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
GABRA3	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
HSPA4L	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
PECR	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
PPP1R13B	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
SERPING1	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
UCHL1	3	4	0.115384615	0.181818182	-0.066433566	0.066433566
LARGE	9	9	0.346153846	0.409090909	-0.062937063	0.062937063
KITLG	2	3	0.076923077	0.136363636	-0.059440559	0.059440559
GRIA3	5	3	0.192307692	0.136363636	0.055944056	0.055944056
LPHN2	5	3	0.192307692	0.136363636	0.055944056	0.055944056
TGFBI	5	3	0.192307692	0.136363636	0.055944056	0.055944056
INHBA	8	8	0.307692308	0.363636364	-0.055944056	0.055944056

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LY96	8	8	0.307692308	0.363636364	-0.055944056	0.055944056
PAQR5	8	8	0.307692308	0.363636364	-0.055944056	0.055944056
PRKD1	8	8	0.307692308	0.363636364	-0.055944056	0.055944056
CPE	7	7	0.269230769	0.318181818	-0.048951049	0.048951049
TLE1	7	7	0.269230769	0.318181818	-0.048951049	0.048951049
GCNT4	6	4	0.230769231	0.181818182	0.048951049	0.048951049
SLC12A7	6	4	0.230769231	0.181818182	0.048951049	0.048951049
TNFRSF9	6	4	0.230769231	0.181818182	0.048951049	0.048951049
EMP2	7	5	0.269230769	0.227272727	0.041958042	0.041958042
OR4F21	7	5	0.269230769	0.227272727	0.041958042	0.041958042
SOX6	7	5	0.269230769	0.227272727	0.041958042	0.041958042
CDC14B	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
HMCN1	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
HYOU1	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
KIT	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
NQO1	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
PRKG2	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
PRKY	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
RAB3B	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
SLC2A12	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
ZNF367	6	6	0.230769231	0.272727273	-0.041958042	0.041958042
ARHGAP42	8	6	0.307692308	0.272727273	0.034965035	0.034965035
GPR125	8	6	0.307692308	0.272727273	0.034965035	0.034965035
KLF4	8	6	0.307692308	0.272727273	0.034965035	0.034965035

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RASGRP3	8	6	0.307692308	0.272727273	0.034965035	0.034965035
SLC15A3	8	6	0.307692308	0.272727273	0.034965035	0.034965035
APOBEC3G	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
CDO1	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
DAPK1	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
FAM13A	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
GALNT3	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
HOXA11	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
PPYR1	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
UTY	5	5	0.192307692	0.227272727	-0.034965035	0.034965035
CDH4	9	7	0.346153846	0.318181818	0.027972028	0.027972028
TGFBR1	9	7	0.346153846	0.318181818	0.027972028	0.027972028
CD55	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
COL4A5	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
GUCY1A2	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
ITGB8	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
PAMR1	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
RASGRP1	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
STAMBPL1	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
SYT1	4	4	0.153846154	0.181818182	-0.027972028	0.027972028
MMP16	10	9	0.384615385	0.409090909	-0.024475524	0.024475524
NR2F2	10	8	0.384615385	0.363636364	0.020979021	0.020979021
DLX5	3	3	0.115384615	0.136363636	-0.020979021	0.020979021
HOXD10	3	3	0.115384615	0.136363636	-0.020979021	0.020979021

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SGK3	3	3	0.115384615	0.136363636	-0.020979021	0.020979021
MGLL	4	3	0.153846154	0.136363636	0.017482517	0.017482517
HOXA1	5	4	0.192307692	0.181818182	0.01048951	0.01048951
HOXA4	5	4	0.192307692	0.181818182	0.01048951	0.01048951
HOXD8	5	4	0.192307692	0.181818182	0.01048951	0.01048951
PCDHB2	5	4	0.192307692	0.181818182	0.01048951	0.01048951
SIX1	5	4	0.192307692	0.181818182	0.01048951	0.01048951
SYTL2	5	4	0.192307692	0.181818182	0.01048951	0.01048951
TBX20	5	4	0.192307692	0.181818182	0.01048951	0.01048951
TEC	5	4	0.192307692	0.181818182	0.01048951	0.01048951
ADAM12	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
AKAP12	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
HCFC2	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
ITPR2	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
PITX2	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
SLC38A5	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
SPON2	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
ZFP36L2	8	7	0.307692308	0.318181818	-0.01048951	0.01048951
USP18	12	10	0.461538462	0.454545455	0.006993007	0.006993007
AVP11	6	5	0.230769231	0.227272727	0.003496503	0.003496503
BOC	6	5	0.230769231	0.227272727	0.003496503	0.003496503
FBLN5	6	5	0.230769231	0.227272727	0.003496503	0.003496503
H1FO	6	5	0.230769231	0.227272727	0.003496503	0.003496503
IFI30	6	5	0.230769231	0.227272727	0.003496503	0.003496503

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IL11	6	5	0.230769231	0.227272727	0.003496503	0.003496503
KCNAB1	6	5	0.230769231	0.227272727	0.003496503	0.003496503
PHF11	6	5	0.230769231	0.227272727	0.003496503	0.003496503
FAM13B	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
FAS	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
IL8	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
NOTCH3	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
PARP14	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
PKDCC	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
PLAU	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
SCML1	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
STAT2	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
TTLL7	7	6	0.269230769	0.272727273	-0.003496503	0.003496503
CNTNAP3	26	22	1	1	0	0
KRT18	13	11	0.5	0.5	0	0