

Table SII. Differentially expressed genes of 87 single cells.

gene_name	sc3_6_markers_clusts	sc3_6_markers_padj	sc3_6_markers_auroc	sc3_6_de_padj
SHOX2	1	0.000133674	0.864748677	3.34742x10 <sup>-7</sup>
HORMAD1	1	4.06933x10 <sup>-8</sup>	0.930886243	5.83734x10 <sup>-7</sup>
DNTT	1	3.68538x10 <sup>-7</sup>	0.905092593	1.66487x10 <sup>-5</sup>
MTND1P23	1	0.000686208	0.860780423	1.86934x10 <sup>-5</sup>
XAGE1A	1	6.87814x10 <sup>-6</sup>	0.850859788	5.59476x10 <sup>-5</sup>
PCNA	1	0.003229213	0.846230159	6.55443x10 <sup>-5</sup>
S100A16	1	0.000470044	0.835648148	7.31715x10 <sup>-5</sup>
RP11-738E22.2	1	3.2468x10 <sup>-5</sup>	0.874669312	0.000110537
RP11-466H18.1	1	0.011258925	0.841600529	0.000143949
RAD51AP1	1	0.504896512	0.766203704	0.000194829
HLA-DRB4	1	3.56086x10 <sup>-6</sup>	0.847222222	0.000207227
XAGE1C	1	0.000111553	0.833333333	0.000245
XAGE1B	1	0.00049977	0.832010582	0.00041849
XAGE1D	1	0.000160027	0.826058201	0.000773721
AC002454.1	1	3.05582x10 <sup>-5</sup>	0.863756614	0.00085168
PSME2	1	0.000495063	0.881944444	0.000857836
BRCA1	1	1	0.752645503	0.000907675
IFITM3	1	0.006921706	0.845568783	0.001150186
MCM3	1	1	0.758928571	0.001448498
NOP56	1	0.03518637	0.827050265	0.002260082
RP11-742N3.1	1	0.013416297	0.840939153	0.002430729
MYCBP2	1	0.005177417	0.853505291	0.002469552
MYB	1	0.505639865	0.786375661	0.002731401
RP11-386G11.10	1	0.047088806	0.822751323	0.002748429
RPL19	1	0.458426404	0.786375661	0.002829261
ESD	1	1	0.739417989	0.003873302
PRPF38B	1	1	0.761574074	0.003881188
RPS5	1	1	0.750330688	0.004206651
USP1	1	0.002393277	0.861441799	0.004927674
BMP3	1	0.004419563	0.836640212	0.005669745
P2RX5	1	0.060088814	0.807208995	0.00584059

MAD2L1	1	1	0.74702381	0.005997152
XAGE1E	1	7.55995x10 <sup>-5</sup>	0.799603175	0.006683394
PARP1	1	1	0.768187831	0.006866802
CLEC5A	1	0.007843178	0.809193122	0.00697861
KLF10	1	0.000394299	0.859126984	0.007518969
FABP5	1	0.363254581	0.788690476	0.009123702
POMP	1	1	0.740740741	0.009632056
EBF3	1	0.000818001	0.809854497	0.009788884
OAT	1	1	0.739417989	0.010144358
GMNN	1	0.1551815	0.787698413	0.011005834
TMEM48	1	0.032944576	0.812169312	0.011051411
UBB	1	0.941060461	0.775462963	0.012009927
HIF0	1	0.102161598	0.767195767	0.013533041
SGOL1	1	0.512110875	0.768518519	0.014985009
SYNCRIP	1	1	0.707010582	0.016521987
PPIP5K2	1	1	0.706679894	0.017685207
IFI16	1	0.62045741	0.782738095	0.020270364
MLL	1	1	0.721230159	0.020759618
LDHB	1	1	0.748015873	0.021250991
TCF4	1	0.00575771	0.845899471	0.021492543
RPL41P1	1	0.002331386	0.832671958	0.023802692
NHP2L1	1	1	0.719246032	0.026141971
TCP1	1	1	0.716600529	0.02864764
NRIP1	1	1	0.772156085	0.029257955
HSPD1	1	0.036139703	0.827050265	0.029335124
NUFIP2	1	1	0.694444444	0.033795561
MCM5	1	0.032795174	0.80952381	0.035174399
PA2G4	1	0.266021616	0.796296296	0.041812851
RPL26	1	1	0.701719577	0.042678346
MYL12A	1	1	0.744047619	0.044112061
CCND1	1	0.004523911	0.791666667	0.044587084
DDX18	1	1	0.712962963	0.046388283
HLA-DRA	2	3.14048x10 <sup>-5</sup>	0.908668731	5.77219x10 <sup>-10</sup>
EREG	2	0.001836083	0.887770898	8.00456x10 <sup>-9</sup>

TAPBP	2	9.71159x10 <sup>-5</sup>	0.895897833	2.01357x10 <sup>-8</sup>
ATP8B4	2	4.47148x10 <sup>-7</sup>	0.936532508	2.6062x10 <sup>-8</sup>
RP11-704M14.1	2	2.15277x10 <sup>-5</sup>	0.88622291	2.63727x10 <sup>-8</sup>
RP11-527N22.1	2	0.001852696	0.876160991	8.67071x10 <sup>-8</sup>
HLA-DRB5	2	2.07106x10 <sup>-5</sup>	0.886609907	1.13392x10 <sup>-7</sup>
ATP2B1	2	0.001344838	0.890866873	1.72663x10 <sup>-7</sup>
SIPA1L1	2	0.001303857	0.888931889	1.77615x10 <sup>-7</sup>
MYO1G	2	0.000490503	0.891640867	3.25861x10 <sup>-7</sup>
CLECL1	2	0.000100056	0.866099071	4.70792x10 <sup>-7</sup>
PDCD6IP	2	0.121544274	0.833204334	6.18422x10 <sup>-7</sup>
SUCNR1	2	7.68015x10 <sup>-9</sup>	0.900928793	6.73565x10 <sup>-7</sup>
ADAM28	2	0.005025509	0.857585139	9.7551x10 <sup>-7</sup>
PBX3	2	0.000827945	0.835139319	1.25209x10 <sup>-6</sup>
FAM92A1	2	5.71267x10 <sup>-5</sup>	0.905959752	1.37439x10 <sup>-6</sup>
SOCS2	2	1.11035x10 <sup>-5</sup>	0.938080495	1.42334x10 <sup>-6</sup>
VENTX	2	0.007937512	0.866486068	2.29875x10 <sup>-6</sup>
TPPP3	2	1.41324x10 <sup>-6</sup>	0.894736842	2.66469x10 <sup>-6</sup>
WDR67	2	0.000109515	0.927631579	2.77029x10 <sup>-6</sup>
SVIL	2	0.019032423	0.847136223	3.108x10 <sup>-6</sup>
ARRDC3	2	0.047375944	0.848297214	3.26872x10 <sup>-6</sup>
PDZD8	2	0.007646419	0.868421053	3.60429x10 <sup>-6</sup>
MTSS1	2	0.00075336	0.902089783	3.76406x10 <sup>-6</sup>
RDX	2	0.001190099	0.900541796	4.49749x10 <sup>-6</sup>
AHNAK	2	0.036635472	0.851393189	6.33761x10 <sup>-6</sup>
ARNT	2	0.012921001	0.867647059	6.43768x10 <sup>-6</sup>
ZNF572	2	2.94437x10 <sup>-7</sup>	0.872291022	6.54319x10 <sup>-6</sup>
FLNA	2	0.004222279	0.841718266	6.7786x10 <sup>-6</sup>
RP1-5O6.4	2	1.67249x10 <sup>-8</sup>	0.887383901	7.18819x10 <sup>-6</sup>
RP5-1022P6.3	2	6.0614x10 <sup>-7</sup>	0.897058824	7.30938x10 <sup>-6</sup>
GNPTAB	2	0.040667669	0.851780186	8.20872x10 <sup>-6</sup>
MMP19	2	0.000116244	0.868421053	1.15123x10 <sup>-5</sup>
OSBPL3	2	0.017301951	0.852167183	1.17833x10 <sup>-5</sup>
EDEM1	2	0.152150146	0.829721362	1.45641x10 <sup>-5</sup>
DLC1	2	3.23809x10 <sup>-6</sup>	0.876547988	1.46948x10 <sup>-5</sup>

NUP153	2	0.096589316	0.834752322	1.68425x10 <sup>-5</sup>
TYMS	2	0.749770522	0.796826625	1.68694x10 <sup>-5</sup>
RGPD5	2	0.035721728	0.85371517	1.79739x10 <sup>-5</sup>
DMD	2	0.003335311	0.882739938	1.90399x10 <sup>-5</sup>
ZNF716	2	0.011908429	0.854489164	1.9759x10 <sup>-5</sup>
PIM1	2	3.51893x10 <sup>-5</sup>	0.921439628	2.1219x10 <sup>-5</sup>
ITSN1	2	0.002960254	0.886609907	2.28098x10 <sup>-5</sup>
HAVCR2	2	0.260219733	0.816176471	2.31276x10 <sup>-5</sup>
HIF1A	2	0.628613462	0.806114551	2.44701x10 <sup>-5</sup>
FAM105B	2	0.018290078	0.84752322	2.83001x10 <sup>-5</sup>
SFXN1	2	0.036210024	0.851780186	3.0529x10 <sup>-5</sup>
TRPS1	2	0.000379914	0.871517028	3.39555x10 <sup>-5</sup>
INPP5B	2	0.34444711	0.816563467	3.6079x10 <sup>-5</sup>
CACUL1	2	0.051014598	0.847910217	3.64653x10 <sup>-5</sup>
MBNL2	2	0.000377792	0.90247678	4.32347x10 <sup>-5</sup>
NCAPG	2	0.119615495	0.825464396	4.51112x10 <sup>-5</sup>
RNF10	2	0.254950391	0.820433437	4.62606x10 <sup>-5</sup>
TMEM248	2	0.148499791	0.825077399	4.86285x10 <sup>-5</sup>
CASC5	2	0.082748839	0.838622291	5.41389x10 <sup>-5</sup>
ZNF37BP	2	0.007362077	0.871517028	5.81097x10 <sup>-5</sup>
EBP	2	4.51836x10 <sup>-5</sup>	0.901702786	6.03865x10 <sup>-5</sup>
LONRF1	2	0.00038341	0.862229102	6.1695x10 <sup>-5</sup>
ARID2	2	0.629273414	0.805727554	6.22153x10 <sup>-5</sup>
RNF219-AS1	2	2.04993x10 <sup>-7</sup>	0.835139319	6.56284x10 <sup>-5</sup>
SMC2	2	1	0.772832817	6.84729x10 <sup>-5</sup>
THAP5	2	0.008709518	0.875	7.25939x10 <sup>-5</sup>
CNOT2	2	0.10124001	0.8374613	7.32781x10 <sup>-5</sup>
ACSM1	2	0.003569627	0.835913313	7.44355x10 <sup>-5</sup>
ATG14	2	0.276020504	0.820433437	7.65976x10 <sup>-5</sup>
MGEA5	2	0.977421295	0.797987616	7.81056x10 <sup>-5</sup>
RIF1	2	0.666535582	0.80495356	8.30036x10 <sup>-5</sup>
UGT2B11	2	0.001521328	0.828173375	8.54603x10 <sup>-5</sup>
RWDD2B	2	0.067567479	0.834365325	8.72467x10 <sup>-5</sup>
SRGN	2	0.043566012	0.850232198	9.46942x10 <sup>-5</sup>

GRAMD3	2	0.118002442	0.829334365	0.000100317
MREG	2	4.09547x10 <sup>-7</sup>	0.811145511	0.000103168
POLR2J4	2	1	0.75619195	0.000103788
CBFB	2	0.029948316	0.847136223	0.000104776
ENSG00000237779	2	0.000736171	0.860681115	0.000107752
HDC	2	0.000182848	0.827399381	0.000111598
STT3A	2	0.699618731	0.80379257	0.000112029
NCAPG2	2	0.704417974	0.799922601	0.000125334
AGTPBP1	2	0.053622587	0.838235294	0.000125741
WIPI2	2	0.357329892	0.81501548	0.000127135
PHF11	2	0.004694816	0.876547988	0.000135575
AQR	2	0.037669398	0.849071207	0.000138572
TBK1	2	0.024692465	0.835913313	0.000149332
ANLN	2	0.015022669	0.857198142	0.000154246
CHP1	2	0.011907299	0.870356037	0.000156771
FNIP1	2	0.168121369	0.828560372	0.000159459
TLN1	2	0.236603072	0.821981424	0.000162197
DYNC1H1	2	0.416361674	0.812693498	0.000163177
RP11-576C12.1	2	4.78596x10 <sup>-7</sup>	0.845975232	0.00016704
TMEM154	2	0.277117783	0.82004644	0.000171942
PTTG1IP	2	0.145798909	0.821594427	0.000175793
HLA-E	2	0.056999791	0.828173375	0.00017683
SAAL1	2	5.05951x10 <sup>-5</sup>	0.888157895	0.000184318
TTC19	2	0.074372396	0.841718266	0.000186941
C7orf57	2	6.47719x10 <sup>-7</sup>	0.843653251	0.00018717
GIGYF2	2	0.441130187	0.812306502	0.000194687
CTB-89H12.4	2	0.213180382	0.824690402	0.000205161
RC3H1	2	0.019948669	0.861842105	0.000211309
HBS1L	2	0.337938574	0.81501548	0.00021244
NLN	2	0.063505368	0.841331269	0.000238831
EPHA3	2	0.000431539	0.85371517	0.000242759
NFIB	2	1.51518x10 <sup>-6</sup>	0.820433437	0.000243473
SPIRE1	2	1.05505x10 <sup>-5</sup>	0.835526316	0.000248869
UCP2	2	0.301209949	0.815789474	0.000254797

PLIN2	2	0.020128635	0.861068111	0.00025887
XRCC6	2	1	0.780185759	0.000261246
RHOC	2	0.001895729	0.839783282	0.000262034
SDHD	2	1	0.790247678	0.000267523
NF2	2	0.010155671	0.871130031	0.000270738
DNMBP-AS1	2	0.304852968	0.80998452	0.000271599
SNRPA1	2	1	0.759287926	0.00028288
PCCA	2	0.149555168	0.814628483	0.000287116
SLC35A3	2	0.273694692	0.818885449	0.000287465
FAM129A	2	0.013203062	0.866486068	0.000299829
C2orf68	2	0.130604549	0.832043344	0.00030763
SRI	2	0.078097416	0.830495356	0.000312675
C3orf70	2	0.012998018	0.85874613	0.000339207
CLASP1	2	0.526172332	0.808823529	0.000340565
NAA15	2	1	0.777863777	0.000362362
CBLB	2	0.082499997	0.836687307	0.000372183
ATAD2	2	0.67658097	0.804179567	0.000375982
RICTOR	2	0.068061241	0.843653251	0.000386235
TMOD3	2	0.083577292	0.837074303	0.000390887
PGD	2	0.030336841	0.848684211	0.000408598
UBE2H	2	0.001012203	0.883513932	0.000411083
MYSM1	2	0.004810254	0.876934985	0.000413772
DNAJC9	2	0.000698108	0.892027864	0.000420205
ZDHHC17	2	0.005839931	0.867647059	0.000443931
UBXN4	2	1	0.747291022	0.00047448
KCTD15	2	$9.84559 \times 10^{-7}$	0.823529412	0.000486434
LRPAP1	2	0.368025801	0.813467492	0.000499716
RNF144A	2	0.036026562	0.839783282	0.00050254
DMXL2	2	0.001549523	0.890479876	0.000505595
CD55	2	0.533762628	0.808049536	0.000513272
UBE2A	2	0.083086558	0.830495356	0.000527768
CEP85L	2	0.038299483	0.799535604	0.000531885
CYBA	2	0.102505211	0.828560372	0.000532553
ZNF131	2	1	0.784829721	0.00054033

UIMC1	2	0.272256308	0.819659443	0.000541608
CD38	2	0.025291411	0.851393189	0.000543367
TTF2	2	0.279000593	0.82004644	0.000546063
AC068491.1	2	0.514822893	0.79876161	0.000547821
ZNF738	2	0.004842355	0.86493808	0.000561398
DCTN4	2	0.329531281	0.805340557	0.00056433
ZBTB16	2	0.129939471	0.825851393	0.00057675
ITPR2	2	0.035392126	0.85255418	0.000582944
ZKSCAN5	2	0.005731927	0.871904025	0.000600279
LINC00574	2	0.297991693	0.792956656	0.000602419
STX2	2	0.13148143	0.825464396	0.000604758
SLC30A7	2	0.067988691	0.842879257	0.000606279
VT11A	2	0.417098095	0.812693498	0.000635032
TRIO	2	0.242252369	0.821594427	0.000643553
BIRC5	2	0.005632939	0.864164087	0.000656597
KNTC1	2	1	0.767027864	0.000660814
H2AFV	2	1	0.786764706	0.000677906
ZFC3H1	2	0.183240512	0.825851393	0.000694858
BRD8	2	1	0.78250774	0.000700634
CWF19L1	2	0.1525695	0.828947368	0.000739077
IFNGR2	2	0.000175717	0.898219814	0.000763327
TNFAIP3	2	0.001349246	0.825464396	0.000773025
INPP5F	2	1	0.781346749	0.000777826
IKZF2	2	$2.37938 \times 10^{-5}$	0.88506192	0.000806212
MYBL2	2	0.017172189	0.82120743	0.000808982
SNX14	2	0.217400393	0.824303406	0.000837443
CKB	2	0.000120762	0.846749226	0.000856176
NAPB	2	0.025270242	0.851780186	0.000857047
ARFGAP2	2	0.116109193	0.830882353	0.000859944
SNRPC	2	0.191642495	0.822368421	0.000882715
GCSAML	2	0.015254192	0.857972136	0.000903869
SPTLC1	2	0.255065758	0.818885449	0.000914873
TMEM165	2	0.110063188	0.835139319	0.000940526
CRYZ	2	$3.39951 \times 10^{-6}$	0.864551084	0.000952054

SLFN13	2	0.003516305	0.867260062	0.000952054
IL2RG	2	0.03561212	0.851393189	0.000953444
RP11-513G19.1	2	1.36085x10 <sup>-5</sup>	0.877708978	0.000966429
TMEM44	2	0.049585329	0.826625387	0.000970423
SNHG12	2	0.395089443	0.813080495	0.000981703
DENND4A	2	0.00059542	0.866486068	0.000986066
MORF4L2	2	1	0.784442724	0.001034391
AC005562.1	2	1	0.776315789	0.001040104
C18orf25	2	0.000328413	0.899767802	0.001088997
HGS	2	2.42278x10 <sup>-5</sup>	0.846749226	0.001090806
CENPN	2	0.645228028	0.761996904	0.001132196
RAP2C	2	0.007598692	0.870743034	0.001132196
SUPT3H	2	3.55057x10 <sup>-5</sup>	0.891640867	0.001142597
CCDC82	2	0.081230044	0.834365325	0.001162073
FARSB	2	0.019830719	0.849845201	0.001187573
ELF1	2	0.312032177	0.818498452	0.001192889
EIF2S1	2	0.014499006	0.866099071	0.00121388
EXOSC8	2	0.851335855	0.797600619	0.001216495
ATP5J	2	1	0.758900929	0.001261883
PAPOLG	2	1	0.758900929	0.001264902
TBC1D15	2	0.032592239	0.854876161	0.001266985
PPP6R3	2	1	0.780185759	0.001283739
TIPARP	2	0.001049661	0.894736842	0.001340228
NUP205	2	0.000331556	0.906733746	0.001373748
RTCA	2	0.126699185	0.830495356	0.001374812
DMTF1	2	0.153782497	0.828947368	0.001393338
GIGYF1	2	0.173462828	0.825077399	0.001427875
DCAF16	2	1	0.775541796	0.001430801
POLQ	2	0.03199207	0.85255418	0.00144762
RLF	2	0.230712982	0.807662539	0.001465101
RBM27	2	0.581594736	0.803405573	0.001482099
RRBP1	2	1	0.788312693	0.00148507
PDCD4	2	1	0.744195046	0.001490968
AC004166.6	2	0.000298513	0.861455108	0.001496635



KIAA0146	2	0.296103429	0.816563467	0.001537857
PLEKHH2	2	0.13556235	0.823529412	0.001565702
LAMP5	2	3.57793x10 <sup>-6</sup>	0.785990712	0.001582577
TMEM164	2	0.001386812	0.853328173	0.001601038
SNIP1	2	0.000358859	0.863003096	0.001640509
SCRN1	2	0.000317306	0.873839009	0.001662082
RP11-26F2.1	2	0.000980189	0.810371517	0.001670212
RBBP8	2	0.278478319	0.797600619	0.00169174
EPC1	2	1	0.685371517	0.00171768
ZNF621	2	1	0.779798762	0.001729295
TMEM43	2	0.078529403	0.839009288	0.001738616
SCARB2	2	0.924922222	0.797213622	0.001773332
LAMP2	2	0.113681167	0.833591331	0.001794577
MAFG	2	0.008276921	0.86377709	0.00181256
MRI1	2	0.003799465	0.876160991	0.001845367
HSPG2	2	0.113815966	0.826625387	0.001848306
YME1L1	2	1	0.796439628	0.001853101
NUTM2A-AS1	2	1	0.790247678	0.001889425
DLEU2	2	0.006557059	0.856037152	0.001918164
KIAA1671	2	0.253774713	0.815789474	0.002012216
ZNF577	2	0.002454631	0.865325077	0.002070139
ETF1	2	1	0.727941176	0.002126146
FAM49B	2	0.807499644	0.801083591	0.002137801
CLNS1A	2	1	0.710526316	0.002141852
TTLL5	2	1	0.790634675	0.002154408
MRPL39	2	0.000150419	0.882352941	0.002191523
HNRNPA1P15	2	4.22302x10 <sup>-6</sup>	0.763157895	0.002194183
CTD-2003D5.1	2	4.23292x10 <sup>-6</sup>	0.763157895	0.002198674
RAB3D	2	0.036597659	0.844040248	0.002211723
CDS2	2	1	0.794117647	0.002257923
TCERG1	2	0.118507246	0.834365325	0.002270629
OCIAD2	2	0.001097353	0.886996904	0.002291731
CXCR4	2	0.002531571	0.856424149	0.002308561
LIN7C	2	0.103409842	0.83630031	0.002376011

RNF144B	2	0.031290464	0.849071207	0.002388254
DCTN5	2	0.0413021	0.773219814	0.002402806
NCF4	2	1	0.794504644	0.002493144
GMEB1	2	0.30701617	0.817337461	0.00249364
NUP155	2	1	0.760835913	0.002527299
PUM2	2	0.513401822	0.808823529	0.002555576
ACTR6P1	2	2.34062x10 <sup>-5</sup>	0.799148607	0.002574077
ZNF589	2	0.52426414	0.799148607	0.002581846
CA5B	2	1	0.769736842	0.002609593
METTL21A	2	0.102081446	0.835139319	0.002621492
ITCH	2	1	0.770510836	0.002627799
CAPS2	2	1	0.792569659	0.002639899
ALOX5	2	0.123917853	0.755417957	0.002724169
GPR183	2	0.001228237	0.808049536	0.002724468
RRP1	2	1	0.747678019	0.002798841
NSMCE2	2	0.067995669	0.839396285	0.002832798
PPIE	2	1	0.755804954	0.002915343
MTR	2	0.283717284	0.818885449	0.002936287
TET2	2	0.352785051	0.816176471	0.002952383
DUTP2	2	1.15721x10 <sup>-5</sup>	0.841331269	0.002966146
BDH1	2	0.280730216	0.816563467	0.002999225
TDP1	2	0.302087308	0.809597523	0.003034839
CERCAM	2	0.024706974	0.846749226	0.003067585
SPC25	2	0.043729785	0.839396285	0.003078681
COA1	2	1	0.771671827	0.003082962
C12orf45	2	6.04578x10 <sup>-5</sup>	0.899767802	0.00315874
ADAM8	2	0.000334138	0.797987616	0.00316908
EEF1B2P3	2	0.000194848	0.854876161	0.003204616
FNDC3B	2	1	0.785216718	0.003269687
JAK1	2	0.045225336	0.845201238	0.003297205
SNX5	2	0.198149309	0.822755418	0.003365843
SUSD1	2	0.001878363	0.846749226	0.003403351
ARID4A	2	1	0.781733746	0.003414397
FAM175A	2	0.420426671	0.811919505	0.003460429

CHD7	2	0.00069745	0.872291022	0.00350113
CHURC1	2	0.43305966	0.811532508	0.003604559
UBE3A	2	1	0.746904025	0.003731831
ERAP2	2	0.208133608	0.822368421	0.003792202
USP8	2	1	0.765092879	0.003800204
RFFL	2	0.138780328	0.828947368	0.003833298
NUDT19	2	0.113423482	0.834365325	0.003846497
KLF7	2	0.108932178	0.832817337	0.003872574
NDUFV2	2	1	0.77747678	0.003922146
KIAA0232	2	0.338372626	0.810758514	0.003964452
SPTLC2	2	0.067300361	0.843653251	0.003986588
SOS2	2	0.060697198	0.839396285	0.003995732
RP3-340H11.2	2	$5.80213 \times 10^{-5}$	0.832817337	0.004016194
MAGOH	2	0.005551045	0.827012384	0.004026834
PDE9A	2	$2.82575 \times 10^{-5}$	0.780572755	0.004055266
ZNF655	2	0.690422835	0.803405573	0.004110865
FAM46A	2	0.008969415	0.859133127	0.004347255
COQ10B	2	0.247766459	0.807662539	0.004443209
ENPP3	2	0.018261036	0.79876161	0.004464783
SLC24A3	2	$3.21734 \times 10^{-5}$	0.779411765	0.004588525
C1orf56	2	0.107492719	0.82120743	0.004627111
ANKRD40	2	1	0.734133127	0.004629916
FSD1L	2	0.014853373	0.854102167	0.004631345
NUF2	2	0.009179657	0.847910217	0.004707075
CENPC1	2	1	0.746130031	0.004717309
YEATS4	2	0.053875285	0.833978328	0.004723473
MAGED2	2	0.000531652	0.851393189	0.004755894
CSNK1E	2	1	0.73374613	0.004787204
CKAP2L	2	1	0.770510836	0.004817352
NUPL1	2	1	0.720201238	0.004838716
CISD2	2	0.002777856	0.857585139	0.004843926
RP11-749H20.3	2	1	0.734133127	0.004898267
BLM	2	0.602266162	0.792956656	0.004914241
SLC35F2	2	0.057224477	0.840170279	0.004915262

ARL6IP6	2	0.000430436	0.857585139	0.004972177
KIAA1958	2	0.196600553	0.82004644	0.005015044
IL18R1	2	0.424932235	0.773219814	0.005036519
ATP11B	2	0.274753848	0.811919505	0.005046322
PSMA2	2	1	0.710913313	0.005144956
DDIT3	2	0.002699611	0.839009288	0.005206398
METTL21B	2	0.012167489	0.863390093	0.005358749
RLIM	2	1	0.743421053	0.005650024
SLC39A10	2	1	0.727167183	0.005651765
AC012358.4	2	4.33964x10 <sup>-5</sup>	0.758126935	0.005669745
C4orf32	2	4.34147x10 <sup>-5</sup>	0.758126935	0.005671848
AUNIP	2	0.004691505	0.854876161	0.005687556
PEAK1	2	1	0.746130031	0.00569956
RIN3	2	0.024601152	0.828173375	0.00569956
SOD2	2	1	0.791795666	0.005712448
BARD1	2	0.008118648	0.871904025	0.005725881
PSMD12	2	1	0.794117647	0.005809046
BEND4	2	2.93328x10 <sup>-5</sup>	0.780185759	0.00586471
RNF4	2	0.26405003	0.817724458	0.005900481
RPS6KA3	2	0.272799437	0.818885449	0.005975973
PRC1	2	1	0.791408669	0.005991951
PRPF39	2	0.147703649	0.825851393	0.006042821
ZNF660	2	0.380468788	0.810371517	0.006073775
CDK11B	2	0.019005256	0.829721362	0.006084346
LYPLA1	2	1	0.746130031	0.006123408
SIRT2	2	1	0.787151703	0.006172737
LNPEP	2	1	0.791021672	0.006203963
ADO	2	0.000647607	0.828560372	0.006226037
YTHDC2	2	0.477405399	0.799922601	0.006319426
RAB27A	2	0.134728113	0.831656347	0.00638418
CASP9	2	1	0.785990712	0.006445642
TMED8	2	0.432122494	0.811145511	0.006468638
SLC10A7	2	0.000441849	0.823529412	0.006554743
CENPE	2	1	0.790634675	0.006588115

CASC3	2	0.515195272	0.806888545	0.006590811
RRN3P1	2	0.428770264	0.809210526	0.006620315
STAT3	2	0.189732694	0.825077399	0.00672027
RNF19B	2	2.75268x10 <sup>-5</sup>	0.833591331	0.006848798
ZNF433	2	0.157271262	0.811145511	0.006908235
GABPB1	2	0.42055109	0.810371517	0.007047828
TLK1	2	0.591816294	0.806888545	0.007090851
CNP	2	0.044405527	0.834365325	0.007156332
AL139099.1	2	1	0.77128483	0.007195718
ORC2	2	1	0.782894737	0.007213498
RETSAT	2	9.70182x10 <sup>-5</sup>	0.802244582	0.007281919
ACTR8	2	0.000248817	0.824303406	0.007291353
ELOVL6	2	0.097391416	0.818111455	0.00731561
RMND5A	2	0.121018048	0.831656347	0.007426169
SERP1	2	1	0.763157895	0.007444624
TMA16	2	1	0.755804954	0.007541189
SMYD4	2	1	0.776702786	0.007567606
SYNRG	2	1	0.731037152	0.007655307
ZBTB8OS	2	1	0.790634675	0.007835171
FRYL	2	1	0.739164087	0.00787675
EMC3	2	1	0.760835913	0.008085083
BCL9	2	2.66446x10 <sup>-5</sup>	0.780959752	0.008200225
MON2	2	0.080018649	0.838622291	0.008369915
RP5-1158E12.3	2	0.002038132	0.88119195	0.008380426
ABCB1	2	0.00025118	0.786764706	0.008406235
WHAMM	2	0.09176118	0.835913313	0.008441474
BUB1B	2	1	0.784442724	0.008668443
MTF2	2	1	0.785990712	0.008821774
NUMA1	2	1	0.776315789	0.009142526
PVRL4	2	0.04891159	0.838622291	0.009192867
TRAPPC6B	2	1	0.775154799	0.009211574
MB21D1	2	1	0.78869969	0.009213343
MRPL42	2	1	0.755804954	0.009397721
NPHP3	2	1	0.773219814	0.009476031

SRSF2	2	0.13154926	0.827786378	0.009510376
EIF2B1	2	0.009856017	0.853328173	0.009690859
TAX1BP1	2	1	0.724458204	0.009716192
NDUFA4	2	1	0.700851393	0.009924799
PRKAA1	2	1	0.751547988	0.00996188
RP11-497H16.6	2	1	0.689241486	0.010068961
PATL1	2	0.000581572	0.854102167	0.01009413
PSMD1	2	1	0.767801858	0.010212581
SMU1	2	0.386451871	0.814241486	0.010270323
RP11-677N16.1	2	$6.63194 \times 10^{-5}$	0.773993808	0.010280507
RGS10	2	0.04197384	0.820820433	0.010334196
TINAGL1	2	1	0.762383901	0.010456048
CDK2	2	0.000977246	0.872678019	0.010588615
JMJD6	2	0.578929207	0.77244582	0.010600308
RP11-894P9.1	2	0.226608275	0.813080495	0.010775983
ERBB2IP	2	1	0.780959752	0.01096716
RP11-91120.4	2	1	0.784055728	0.010982658
ZNF761	2	0.714077107	0.79876161	0.010982658
CSE1L	2	1	0.783668731	0.011225337
ZNF271	2	0.171177702	0.821981424	0.011306203
TEAD1	2	0.000188985	0.809597523	0.011433933
PER2	2	1	0.784055728	0.011483495
SHC1	2	1	0.780959752	0.011732585
KIAA0430	2	0.013651967	0.850232198	0.011884955
CREB1	2	1	0.796052632	0.011933742
MARCH7	2	1	0.785990712	0.011964993
PDGFC	2	0.811950679	0.793343653	0.012034505
RPL9P32	2	0.023725912	0.814628483	0.012057316
ETFB	2	1	0.77747678	0.012057681
SHPK	2	0.019704537	0.797600619	0.012261209
GALNT2	2	1	0.678405573	0.012289512
TTBK2	2	0.019244385	0.853328173	0.012379124
WARS	2	0.426673204	0.79876161	0.012502249
PSMD4	2	0.664088857	0.800696594	0.012616536

SPAG6	2	0.049063115	0.819659443	0.012623303
FYCO1	2	0.000339267	0.844814241	0.012681207
EXOC1	2	0.016608507	0.848684211	0.012695964
SEC61A1	2	0.412818721	0.802244582	0.012736286
F11R	2	1	0.760448916	0.013159075
BEX4	2	4.13135x10 <sup>-5</sup>	0.758513932	0.0132084
MRPS25	2	0.698625316	0.802244582	0.013436885
CTC-359D24.3	2	1	0.779411765	0.013477846
AC144530.1	2	0.01943968	0.835526316	0.01357348
TMEM176B	2	4.37986x10 <sup>-5</sup>	0.758126935	0.013828775
MTHFD2	2	0.361685157	0.814241486	0.013850029
ZNF211	2	0.015950582	0.784442724	0.013859282
METTL10	2	0.00285899	0.861455108	0.013945587
AL365202.1	2	1	0.780959752	0.014405999
EAF1	2	0.591427338	0.79876161	0.014491664
MAGED1	2	0.004494834	0.877708978	0.014535714
RP11-770J1.4	2	0.238324112	0.813080495	0.014566841
FBXW2	2	1	0.760448916	0.014601558
MAMDC2	2	0.807499644	0.718266254	0.014767534
NAA38	2	1	0.774767802	0.014818478
SEC63	2	1	0.748065015	0.0151606
SMG1P1	2	1	0.795665635	0.015327574
FXYD5	2	1	0.775541796	0.015361458
MTPAP	2	1	0.785990712	0.015531612
RP11-361D15.2	2	3.99927x10 <sup>-5</sup>	0.736842105	0.015747018
GIMAP5	2	4.0227x10 <sup>-5</sup>	0.736842105	0.015828384
CTD-2547L16.1	2	0.45473582	0.796826625	0.015955979
FAM160B1	2	0.397484337	0.801083591	0.016008304
MEST	2	0.195166722	0.79373065	0.016012143
AC003989.3	2	4.54602x10 <sup>-5</sup>	0.757739938	0.016081158
TTC21B	2	1	0.767027864	0.016118042
SEC23A	2	1	0.740325077	0.016165463
DENND4C	2	0.031854189	0.845975232	0.016279657
ARHGEF6	2	1	0.745356037	0.01661253

CD27-AS1	2	1	0.768575851	0.016783462
ATG16L2	2	1	0.763931889	0.017021805
RSBNIL-AS1	2	1	0.783668731	0.017082465
RALGAPA2	2	0.136925989	0.819659443	0.017090256
SLK	2	0.044267112	0.846749226	0.017378834
AC096558.1	2	0.002906088	0.824690402	0.017567522
ALYREF	2	1	0.720588235	0.01756814
PRDX3	2	1	0.70626935	0.017570981
LSM12	2	1	0.762770898	0.017593565
PDS5B	2	1	0.734907121	0.017596358
ANKHD1	2	1	0.707430341	0.017742046
GRSF1	2	1	0.743421053	0.017743488
PYGB	2	0.000891609	0.855650155	0.017962006
SEPT2	2	1	0.756578947	0.018046147
BBS9	2	0.000221941	0.808049536	0.018064771
ADH5	2	0.532370475	0.805727554	0.018347798
EIF1AX	2	1	0.760835913	0.018378243
CCDC163P	2	1	0.785603715	0.018580382
ATL3	2	1	0.737616099	0.018619402
PLAU	2	0.004065472	0.795278638	0.018871744
SRCAP	2	1	0.746517028	0.019088591
BVES	2	0.576716456	0.801470588	0.019161507
KATNAL1	2	0.640740057	0.804566563	0.019313363
MTRR	2	0.03115259	0.827012384	0.019515057
CALR	2	1	0.731811146	0.019568599
SEP15	2	1	0.782120743	0.019940867
KHDRBS1	2	1	0.788312693	0.019971257
FCHSD1	2	1	0.744195046	0.020014168
AEBP2	2	1	0.769736842	0.020077404
RP11-39E3.6	2	0.003529685	0.806114551	0.020089931
RP11-6D1.6	2	0.018343722	0.834365325	0.020103943
TEC	2	0.038038563	0.824303406	0.020178478
DHX35	2	0.171708429	0.810758514	0.020608859
CBWD2	2	1	0.679566563	0.020798986



FADS1	2	0.192050471	0.821594427	0.021165448
PTCD3	2	1	0.703173375	0.021284788
TGFBR2	2	0.157562302	0.804953556	0.02163704
COX8A	2	1	0.747678019	0.021714453
AC000068.5	2	0.001083499	0.830882353	0.021787111
RP11-231D20.1	2	0.000509385	0.7875387	0.02209359
C1orf112	2	0.070443697	0.828560372	0.022396753
RP11-603K19.1	2	0.00039762	0.767801858	0.022412579
MGST3	2	1	0.761609907	0.022591818
RP11-384K6.2	2	0.010924983	0.818498452	0.022607712
CHTF18	2	0.227786152	0.800696594	0.022619558
DCUN1D3	2	0.000598082	0.772058824	0.022697615
UTP6	2	1	0.715170279	0.022729921
TMEM14A	2	8.66332x10 <sup>-5</sup>	0.844814241	0.023215528
CCNL2	2	0.185835625	0.823142415	0.023226495
PCNT	2	0.071198551	0.839783282	0.023634274
KRR1	2	0.083532058	0.835139319	0.023636066
MIAT	2	0.141113317	0.775154799	0.024030312
ANXA9	2	7.46078x10 <sup>-5</sup>	0.754256966	0.024116941
FEM1C	2	0.840984676	0.768962848	0.02447388
CHD4	2	0.360233952	0.815402477	0.024524487
AC027612.3	2	0.006163584	0.763544892	0.024648315
QSOX1	2	0.573687426	0.79373065	0.024727504
CCP110	2	0.819685635	0.797213622	0.024863316
ING3	2	1	0.777089783	0.025032589
CMTM6	2	1	0.744582043	0.025111308
MICU1	2	0.000218012	0.835913313	0.02539835
HELZ	2	1	0.767027864	0.025501719
WHSC1	2	1	0.721362229	0.025799421
CDC7	2	0.110595539	0.800309598	0.025946238
MICAL1	2	0.001982238	0.84249226	0.026075588
COX4I1	2	1	0.736455108	0.026094977
KDM5A	2	1	0.710139319	0.0261781
APIG1	2	0.426040123	0.79876161	0.026203097

ARF6	2	1	0.763157895	0.026409572
RP11-726G1.1	2	0.358208498	0.801470588	0.026917631
MPC2	2	0.386304403	0.810371517	0.027205759
CORO1C	2	1	0.783281734	0.027364116
OMD	2	0.000660733	0.877708978	0.027412511
RP11-645N11.2	2	0.00118296	0.838622291	0.027493678
RP11-85F14.1	2	0.000125982	0.768962848	0.027617691
NDC80	2	1	0.748839009	0.027729552
ZNF789	2	1	0.789086687	0.028336739
RP11-629F19.1	2	0.000791971	0.761996904	0.028380365
MKL1	2	0.016911992	0.849845201	0.028656496
CCDC28A	2	0.00683596	0.827786378	0.028712719
PHTF2	2	1	0.784829721	0.028759461
CLTC	2	1	0.753095975	0.028872553
GMPR	2	0.129038065	0.790634675	0.029331098
TMEM184C	2	1	0.740325077	0.029588768
DNAJB14	2	1	0.753482972	0.029858366
BRD3	2	0.315812313	0.809597523	0.029883233
MELK	2	0.021400331	0.851006192	0.029927761
RBL1	2	1	0.742647059	0.030309403
ZNF516	2	0.249732587	0.816950464	0.030847168
NUPL2	2	1	0.774380805	0.030920161
DOPEY1	2	1	0.768188854	0.031313029
CASP8AP2	2	1	0.71749226	0.031409896
RP11-674J14.3	2	0.000305553	0.811145511	0.031430094
RNF2	2	0.012750091	0.851393189	0.031438417
EIF3D	2	1	0.726006192	0.031490313
FOXN2	2	1	0.762770898	0.031609344
ARHGEF12	2	1	0.69620743	0.031700715
CAAP1	2	0.00089863	0.845588235	0.031700715
DCUN1D1	2	1	0.795665635	0.032258479
MOB1A	2	1	0.734520124	0.032706813
GAPDHP14	2	0.000244354	0.779798762	0.032829311
WDR26	2	0.991589403	0.796826625	0.032997645

RANBP9	2	1	0.785990712	0.033025639
ZBTB17	2	1	0.753869969	0.033054833
ZCRB1	2	1	0.777863777	0.0331959
ZBTB21	2	0.153782497	0.791021672	0.03323649
NPL	2	1	0.731424149	0.033412235
LPHN3	2	0.05318652	0.735294118	0.033645953
CDK5RAP1	2	1	0.752708978	0.033714454
PRSS16	2	0.00048044	0.840944272	0.034049531
NAA16	2	1	0.774767802	0.034203581
RBM7	2	0.257403257	0.816176471	0.034594339
CDK19	2	1	0.777863777	0.035018662
ZNF704	2	1	0.769349845	0.035098139
AGO4	2	1	0.737229102	0.035135516
RP11-665C16.1	2	0.001880833	0.813080495	0.035167549
DNAJC2	2	1	0.727167183	0.03532465
NEK7	2	0.154681661	0.816563467	0.035542856
USF1P1	2	0.00042548	0.731424149	0.036013772
RP11-646J21.7	2	0.00042565	0.731424149	0.036027239
ECT2	2	1	0.791408669	0.036273701
RP11-517I3.1	2	0.000465075	0.730650155	0.036585592
NDUFAF6	2	1	0.743034056	0.036984739
ZFX	2	1	0.774767802	0.036984739
CD53	2	1	0.683436533	0.037048087
FAM162A	2	1	0.770897833	0.037501819
ZNF611	2	0.00022455	0.808049536	0.03775572
RFPL4AL1	2	0.000501831	0.730263158	0.037923526
ELOVL7	2	0.005744608	0.849458204	0.038108442
AMZ2P1	2	0.002173791	0.785990712	0.038164647
SEPT7	2	1	0.732972136	0.038178254
RP11-533E19.3	2	0.000186229	0.782120743	0.039061284
PIK3R1	2	1	0.768188854	0.039847044
PIKFYVE	2	1	0.738390093	0.039939611
RP3-467K16.4	2	0.648480914	0.803405573	0.040148355
TGOLN2	2	1	0.708591331	0.040832036

KLF13	2	0.051059324	0.834752322	0.041247077
TDP2	2	0.000473189	0.822755418	0.042205612
TTI1	2	0.001052693	0.832430341	0.043009061
RP11-313I2.6	2	0.000883683	0.726006192	0.043082142
ZNF662	2	0.546030934	0.807662539	0.043411442
WIZ	2	0.006724883	0.851780186	0.043457127
HINT2	2	0.000186838	0.821594427	0.043951606
ELOVL5	2	1	0.776315789	0.044056574
RP11-809N8.2	2	0.000177646	0.76625387	0.044199962
SRRM2	2	0.724549685	0.795278638	0.044199962
EDA2R	2	0.030613045	0.795665635	0.044363309
SLC22A20	2	0.131137687	0.805727554	0.044452403
PPP1R2	2	1	0.787151703	0.04462198
GS1-256O22.1	2	1	0.784055728	0.045927024
AGO2	2	0.072221286	0.808823529	0.046037893
ACTL6A	2	1	0.768962848	0.046248611
CYTH1	2	0.106386638	0.757352941	0.046988515
UGP2	2	1	0.773219814	0.047417303
ZFAND4	2	0.066128139	0.822755418	0.047417303
SLC39A1	2	0.000286727	0.785603715	0.047500349
TMEM167A	2	1	0.741099071	0.047528316
TPSAB1	2	0.613074892	0.707430341	0.047553131
LYZ	2	0.123501886	0.82004644	0.047558535
SNRK	2	0.149590273	0.821594427	0.047898098
DTL	2	1	0.742260062	0.047984172
NANS	2	1	0.696981424	0.048002159
DPYD	2	1	0.776702786	0.048230324
CDC25A	2	0.000572367	0.80495356	0.048312701
TTC7B	2	0.217944621	0.819272446	0.048371115
DAPP1	2	0.013586605	0.850619195	0.04919331
PIP5K1A	2	1	0.779798762	0.04957429
TM6SF1	2	0.261409512	0.727941176	0.049861019
TMED5	2	1	0.765866873	0.049908077
MLH1	2	1	0.739164087	0.049976177

DSC2	3	0.108035803	0.846153846	1.70883x10 <sup>-10</sup>
GOLGA8A	3	0.154125267	0.861226611	8.64447x10 <sup>-9</sup>
BTBD19	3	0.081133501	0.889293139	1.161x10 <sup>-6</sup>
CCND2	3	0.250640563	0.869022869	1.67928x10 <sup>-6</sup>
NR6A1	3	1	0.824324324	3.38914x10 <sup>-6</sup>
STXBP5	3	1	0.818087318	3.57665x10 <sup>-6</sup>
ARHGAP5	3	1	0.802494802	9.55014x10 <sup>-6</sup>
AC139677.6	3	0.120021572	0.878898129	1.33987x10 <sup>-5</sup>
CAMK1D	3	1	0.832120582	2.59184x10 <sup>-5</sup>
KLHL7-AS1	3	1	0.831081081	3.37073x10 <sup>-5</sup>
AC083884.8	3	1	0.799376299	3.602x10 <sup>-5</sup>
FUK	3	0.767244906	0.838877339	4.25734x10 <sup>-5</sup>
RP11-113D6.10	3	1	0.81029106	6.0487x10 <sup>-5</sup>
UBA6	3	1	0.83991684	7.20521x10 <sup>-5</sup>
RP11-514P8.6	3	1	0.813929314	9.17861x10 <sup>-5</sup>
RHOB	3	1	0.783783784	0.000107088
THUMPD1	3	0.880800145	0.845114345	0.000126318
CCNC	3	1	0.802494802	0.000144798
CASP8	3	1	0.753638254	0.000152214
AHCTF1	3	1	0.817567568	0.000190588
MYRF	3	0.503871459	0.787422037	0.000191879
GREM2	3	0.26750294	0.854989605	0.000194084
STON2	3	1	0.830561331	0.000253694
PPM1B	3	1	0.827442827	0.00027658
FAM20B	3	1	0.776507277	0.000282894
RAB1A	3	1	0.820686071	0.000284949
ADAM17	3	1	0.794178794	0.000306464
ADD3	3	1	0.817047817	0.000314792
NUP133	3	1	0.838877339	0.000337796
GLS	3	1	0.741683992	0.000360309
TIMM23	3	1	0.800935551	0.000371561
SREBF2	3	1	0.815488565	0.000401366
HPSE	3	1	0.835239085	0.000447263
PAPD4	3	1	0.785343035	0.000473879

GPR98	3	1	0.8004158	0.000477122
USP3	3	1	0.832120582	0.000477444
TXNDC15	3	1	0.772349272	0.00049127
RP11-103G8.2	3	1	0.797297297	0.000511935
ZMYND8	3	1	0.716735967	0.000549728
OAF	3	1	0.792099792	0.00055323
GLIS3	3	0.234248937	0.781704782	0.000657906
USP15	3	1	0.738045738	0.000671241
ZMAT5	3	0.645947596	0.848752599	0.000733738
CARS	3	1	0.79989605	0.00073915
LENG8	3	0.589194033	0.832640333	0.000783469
MATN2	3	1	0.788981289	0.000798856
YAF2	3	0.584680385	0.854989605	0.000842374
MRPS22	3	1	0.707900208	0.000858155
ADRBK2	3	1	0.767671518	0.000866009
RNF149	3	1	0.784823285	0.000902069
POLK	3	1	0.822765073	0.000962951
ABCA13	3	1	0.803534304	0.001067687
GOLGA4	3	1	0.715696466	0.001080389
USP22	3	1	0.776507277	0.001098389
MXD4	3	0.905185239	0.828482328	0.001111481
CCDC144A	3	1	0.75	0.001115222
NADSYN1	3	1	0.831081081	0.001354192
HACE1	3	0.809989881	0.847193347	0.001391821
APAF1	3	1	0.771309771	0.001491552
AGAP11	3	1	0.796257796	0.001599197
RUFY2	3	0.753015042	0.848232848	0.001601527
QRICH1	3	1	0.805613306	0.001697667
PARP15	3	1	0.817047817	0.001699922
XPNPEP3	3	1	0.775467775	0.001721903
DNAJC16	3	1	0.775467775	0.001872422
PINK1-AS	3	1	0.764553015	0.00200498
RP1-179N16.3	3	1	0.780665281	0.002061619
PDE4D	3	1	0.774948025	0.002098023

RP4-591N18.2	3	0.458426404	0.856548857	0.002133457
PSMA3	3	1	0.77027027	0.002230064
IL1RL1	3	1	0.725571726	0.002277912
SLC31A1	3	1	0.793139293	0.002315076
CTA-373H7.7	3	1	0.823804574	0.002326399
PPP1R15B	3	1	0.747920998	0.002445174
RP11-841O20.2	3	1	0.762474012	0.002445174
KIAA1210	3	1	0.812889813	0.002583831
RP11-658F2.8	3	0.888463368	0.844074844	0.002682862
YWHAG	3	1	0.77027027	0.002731401
GPX1	3	1	0.752079002	0.002747783
MED23	3	1	0.758316008	0.002898107
CYP4V2	3	1	0.816528067	0.003044341
MIR205HG	3	1	0.766632017	0.003068881
PGGT1B	3	1	0.780665281	0.003306944
DGKD	3	1	0.798856549	0.003692663
FBXL13	3	1	0.770790021	0.003744369
CEP170	3	1	0.715696466	0.003760835
LRRFIP2	3	1	0.808212058	0.003782625
MCOLN3	3	1	0.718814969	0.003855363
Z73979.1	3	1	0.772869023	0.003988003
LARP4B	3	1	0.660602911	0.004427097
QTRTD1	3	1	0.75987526	0.004704688
EBF2	3	0.003472922	0.898648649	0.004752186
SIK3	3	0.53879306	0.844074844	0.00477741
PTAFR	3	1	0.824324324	0.004796654
AC009951.1	3	1	0.820686071	0.004814677
ZNF785	3	1	0.801975052	0.004817352
SCN7A	3	1	0.77962578	0.004893158
TRPM7	3	1	0.75987526	0.004979875
COL19A1	3	0.685330871	0.843035343	0.004994575
MIAP	3	1	0.774948025	0.005022892
TSNAX	3	1	0.734927235	0.005118598
SOCS2-AS1	3	1	0.76039501	0.005374818

XPNPEP1	3	1	0.722972973	0.005520957
CRBN	3	1	0.760914761	0.005611161
GPCPD1	3	1	0.754677755	0.00577443
NCOA6	3	1	0.758316008	0.005815207
GSTZ1	3	1	0.741164241	0.006007186
ACSM4	3	0.981517263	0.772349272	0.006199857
TGIF1	3	1	0.733887734	0.006200937
ANGEL2	3	1	0.755717256	0.00621796
AC016722.3	3	1	0.79002079	0.006473833
EMILIN2	3	1	0.76039501	0.007197046
RBM48	3	1	0.765072765	0.00730544
TMEM39A	3	1	0.749480249	0.007501955
MAN2B2	3	1	0.778066528	0.007785881
RP11-484L7.2	3	1	0.716735967	0.008032668
POMT2	3	1	0.754677755	0.008061489
FGF5	3	0.702211112	0.837837838	0.008185428
AC003102.1	3	1	0.826923077	0.008586052
AC127032.2	3	1	0.795738046	0.008831541
SNAPC3	3	1	0.748960499	0.008855329
STAM2	3	0.591842904	0.846153846	0.008944448
FAM193A	3	1	0.773388773	0.009637212
RP11-1042B17.3	3	1	0.751039501	0.010696514
NRP2	3	1	0.811850312	0.010955776
LIN54	3	1	0.77962578	0.011060737
MTMR3	3	1	0.76039501	0.011229293
SFSWAP	3	1	0.748440748	0.011542605
AAK1	3	1	0.803014553	0.012037383
STXBP3	3	1	0.691787942	0.012236478
SAMD8	3	1	0.806652807	0.012921469
NBPF10	3	1	0.654365904	0.013274308
EMC1	3	1	0.74012474	0.013601167
TMEM126B	3	1	0.753118503	0.01377912
ALAS1	3	1	0.753638254	0.013931534
KIF3B	3	1	0.811330561	0.013984046



TMEM66	3	1	0.753118503	0.014319676
PICALM	3	1	0.735446985	0.014665135
ARPC4	3	1	0.712058212	0.015779199
THUMPD2	3	1	0.765592516	0.016542698
CTC-467M3.1	3	1	0.795738046	0.016704595
PMF1	3	1	0.775467775	0.016916614
DISC1	3	1	0.742723493	0.017144759
COPA	3	1	0.726091476	0.017479117
RP11-453N18.1	3	1	0.765592516	0.017812892
FKSG62	3	1	0.778586279	0.019365356
RINL	3	1	0.759355509	0.022930803
CYTH2	3	1	0.756237006	0.023303425
HGSNAT	3	0.025082611	0.90956341	0.023566548
ZNF493	3	1	0.807172557	0.023877652
IMMP1L	3	1	0.824324324	0.024328596
TAOK3	3	1	0.751039501	0.025233836
CD69	3	1	0.735446985	0.02590992
DUSP10	3	1	0.731808732	0.026117983
RP11-706O15.3	3	1	0.732848233	0.026597434
RP11-56N19.5	3	1	0.796777547	0.027364116
TMEM236	3	1	0.820686071	0.027531949
MKRN1	3	1	0.833160083	0.027542385
AHSA2	3	1	0.81029106	0.028262687
C14orf182	3	1	0.77962578	0.028380365
CYB5R3	3	1	0.738045738	0.029180161
GUSBP3	3	1	0.730769231	0.029253953
RNF14	3	1	0.777546778	0.030497881
MED15	3	1	0.814968815	0.030803324
PMPCB	3	1	0.73960499	0.031198815
RTF1	3	1	0.737525988	0.031198815
RP4-724E16.2	3	1	0.776507277	0.031628958
ATXN3	3	1	0.681912682	0.032706813
AC103965.1	3	1	0.769230769	0.03286296
RPS6KB1	3	1	0.73960499	0.034448698

ATP9B	3	1	0.781185031	0.034561402
SEC22B	3	1	0.814968815	0.034986489
SPAG4	3	1	0.737006237	0.036848925
DCAF11	3	1	0.782224532	0.036976647
SLC30A2	3	1	0.79002079	0.03702286
UBE2E2	3	1	0.784303534	0.037495553
ITSN2	3	1	0.786382536	0.039004082
RBM22P2	3	1	0.748440748	0.040967723
ACTR3C	3	1	0.818607069	0.041353828
POLR1C	3	1	0.745841996	0.041917374
ADH1B	3	0.342067358	0.826403326	0.043886808
TRNAU1AP	3	1	0.72972973	0.044629406
PGBD1	3	1	0.704781705	0.044799461
PNPLA3	3	1	0.786382536	0.045417158
SCAND2P	3	1	0.737006237	0.046087108
SYF2	3	1	0.736486486	0.047500349
SEPT11	3	1	0.753118503	0.048244982
CRIP2	5	1	0.880952381	2.02029x10 <sup>-9</sup>
ELMSAN1	5	1	0.932539683	1.07508x10 <sup>-8</sup>
RP4-798C17.6	5	1	0.992063492	1.91703x10 <sup>-8</sup>
PON2	5	1	0.829365079	3.07267x10 <sup>-8</sup>
MS4A10	5	1	0.968253968	3.31463x10 <sup>-8</sup>
AAED1	5	1	0.924603175	3.37371x10 <sup>-8</sup>
DPY19L2	5	1	0.952380952	5.32347x10 <sup>-8</sup>
NCAM1	5	1	0.839285714	7.17877x10 <sup>-8</sup>
VIM	5	1	0.928571429	9.82768x10 <sup>-8</sup>
RP11-723D22.3	5	1	0.992063492	1.41384x10 <sup>-7</sup>
RP3-499B10.3	5	1	0.896825397	2.33544x10 <sup>-7</sup>
FOKK1	5	1	0.984126984	5.56477x10 <sup>-7</sup>
TP53INP1	5	1	0.817460317	5.89858x10 <sup>-7</sup>
NFKB2	5	1	0.851190476	7.46472x10 <sup>-7</sup>
RP11-820K3.2	5	1	0.996031746	8.08851x10 <sup>-7</sup>
LMNA	5	1	0.880952381	9.71145x10 <sup>-7</sup>
CCDC57	5	1	0.823412698	1.38909x10 <sup>-6</sup>

PRELID2	5	1	0.896825397	1.47572x10 <sup>-6</sup>
ZNHIT1	5	1	0.920634921	1.4988x10 <sup>-6</sup>
CASP3	5	1	0.807539683	1.5132x10 <sup>-6</sup>
TPH1	5	1	0.972222222	1.6906x10 <sup>-6</sup>
FRY	5	1	0.841269841	1.92844x10 <sup>-6</sup>
FBXL18	5	1	0.936507937	2.04092x10 <sup>-6</sup>
FUT8	5	1	0.98015873	2.07834x10 <sup>-6</sup>
SYT12	5	1	0.978174603	2.09682x10 <sup>-6</sup>
EFCAB12	5	1	0.936507937	2.13246x10 <sup>-6</sup>
IDH2	5	1	0.976190476	2.23723x10 <sup>-6</sup>
CCM2	5	1	0.837301587	2.25277x10 <sup>-6</sup>
P2RX4	5	1	0.94047619	2.83056x10 <sup>-6</sup>
CATSPERD	5	1	0.964285714	2.97385x10 <sup>-6</sup>
TUBA1B	5	1	0.777777778	3.07872x10 <sup>-6</sup>
VAT1	5	1	0.861111111	3.95244x10 <sup>-6</sup>
TUBA1A	5	1	0.928571429	4.36694x10 <sup>-6</sup>
AL353671.2	5	1	0.976190476	5.1951x10 <sup>-6</sup>
TES	5	1	0.888888889	5.58407x10 <sup>-6</sup>
NUSAP1	5	1	0.896825397	5.68106x10 <sup>-6</sup>
AC000367.1	5	1	0.813492063	6.57868x10 <sup>-6</sup>
CCL5	5	1	0.96031746	7.49876x10 <sup>-6</sup>
TPK1	5	1	0.888888889	7.73191x10 <sup>-6</sup>
RP11-417J8.6	5	1	0.928571429	8.95434x10 <sup>-6</sup>
AGAP10	5	1	0.904761905	9.51915x10 <sup>-6</sup>
DIAPH1	5	1	0.744047619	1.14274x10 <sup>-5</sup>
GPR82	5	1	1	1.19548x10 <sup>-5</sup>
RP11-136F16.1	5	1	0.98015873	1.22144x10 <sup>-5</sup>
F2R	5	1	0.972222222	1.26947x10 <sup>-5</sup>
ATXN7	5	1	0.861111111	1.2873x10 <sup>-5</sup>
RUFY3	5	1	0.845238095	1.31527x10 <sup>-5</sup>
RP11-617J18.1	5	1	0.873015873	1.42234x10 <sup>-5</sup>
NCOA3	5	1	0.827380952	1.42653x10 <sup>-5</sup>
RNF122	5	1	0.936507937	1.4834x10 <sup>-5</sup>
FCRL2	5	1	0.932539683	1.50422x10 <sup>-5</sup>

SLFN12L	5	1	0.880952381	1.50609x10 <sup>-5</sup>
DIS3L	5	1	0.873015873	1.51425x10 <sup>-5</sup>
GINS4	5	1	0.779761905	1.51653x10 <sup>-5</sup>
NEDD9	5	1	0.936507937	1.52548x10 <sup>-5</sup>
ALDH8A1	5	1	0.867063492	1.56841x10 <sup>-5</sup>
DENND5A	5	1	0.803571429	1.60017x10 <sup>-5</sup>
RP13-130D24.1	5	1	0.904761905	1.60986x10 <sup>-5</sup>
CASP10	5	1	0.793650794	1.65367x10 <sup>-5</sup>
EIF5A	5	1	0.755952381	1.67872x10 <sup>-5</sup>
RPS19P3	5	1	0.827380952	1.72846x10 <sup>-5</sup>
MKI67	5	1	0.884920635	1.78059x10 <sup>-5</sup>
PDLIM5	5	1	0.972222222	1.92228x10 <sup>-5</sup>
LRRN3	5	1	0.841269841	2.08205x10 <sup>-5</sup>
IQGAP3	5	1	0.829365079	2.18639x10 <sup>-5</sup>
GTF2IRD2B	5	1	0.904761905	2.19667x10 <sup>-5</sup>
ZNF793	5	1	0.853174603	2.25293x10 <sup>-5</sup>
ALCAM	5	1	0.799603175	2.26193x10 <sup>-5</sup>
SLC5A4	5	1	0.793650794	2.57831x10 <sup>-5</sup>
PTPN4	5	1	0.863095238	2.83149x10 <sup>-5</sup>
NPEPPS	5	1	0.85515873	2.85162x10 <sup>-5</sup>
S1PR3	5	1	0.976190476	2.91288x10 <sup>-5</sup>
CHFR	5	1	0.841269841	2.92149x10 <sup>-5</sup>
MLF1IP	5	1	0.817460317	2.96837x10 <sup>-5</sup>
PHACTR2	5	1	0.833333333	3.09998x10 <sup>-5</sup>
MGST2	5	1	0.956349206	3.27418x10 <sup>-5</sup>
MFAP3	5	1	0.956349206	3.30864x10 <sup>-5</sup>
RP11-168O16.1	5	1	0.803571429	3.36928x10 <sup>-5</sup>
AC092933.4	5	1	0.948412698	3.40107x10 <sup>-5</sup>
STIL	5	1	0.861111111	3.41317x10 <sup>-5</sup>
ITM2A	5	1	0.781746032	3.54948x10 <sup>-5</sup>
AL353898.2	5	1	0.956349206	3.56465x10 <sup>-5</sup>
KCNV1	5	1	0.944444444	3.56782x10 <sup>-5</sup>
PHACTR4	5	1	0.878968254	3.75272x10 <sup>-5</sup>
CD82	5	1	0.93452381	3.90293x10 <sup>-5</sup>

AKR1B15	5	1	0.912698413	4.23523x10 <sup>-5</sup>
GUSB	5	1	0.880952381	4.31152x10 <sup>-5</sup>
USP53	5	1	0.912698413	4.39534x10 <sup>-5</sup>
EIF1AD	5	1	0.871031746	4.5424x10 <sup>-5</sup>
CORO2A	5	1	0.944444444	4.62159x10 <sup>-5</sup>
UBXN2A	5	1	0.944444444	4.65034x10 <sup>-5</sup>
AL139147.1	5	1	0.847222222	4.67041x10 <sup>-5</sup>
POLE	5	1	0.972222222	4.70101x10 <sup>-5</sup>
ILKAP	5	1	0.859126984	4.76131x10 <sup>-5</sup>
CDCA8	5	1	0.807539683	4.97324x10 <sup>-5</sup>
CKS1B	5	1	0.972222222	5.20704x10 <sup>-5</sup>
CSF2RA	5	1	0.928571429	5.28147x10 <sup>-5</sup>
HMGCR	5	1	0.875	5.47843x10 <sup>-5</sup>
CLEC7A	5	1	0.96031746	5.51904x10 <sup>-5</sup>
CD44	5	1	0.857142857	5.5568x10 <sup>-5</sup>
CACNA1D	5	1	0.96031746	5.59835x10 <sup>-5</sup>
KCNE3	5	1	0.845238095	5.60674x10 <sup>-5</sup>
TUBB	5	1	0.964285714	5.72046x10 <sup>-5</sup>
AC002472.13	5	1	0.938492063	5.84193x10 <sup>-5</sup>
STON1	5	1	0.970238095	6.02989x10 <sup>-5</sup>
ANP32B	5	1	0.873015873	6.15545x10 <sup>-5</sup>
YARS	5	1	0.94047619	6.37101x10 <sup>-5</sup>
PDHB	5	1	0.744047619	6.43141x10 <sup>-5</sup>
DHX15	5	1	0.753968254	6.63984x10 <sup>-5</sup>
ASCC1	5	1	0.857142857	6.7262x10 <sup>-5</sup>
PTCHD1	5	1	0.841269841	6.81517x10 <sup>-5</sup>
SCLY	5	1	0.875	6.89683x10 <sup>-5</sup>
LIMK1	5	1	0.950396825	6.94073x10 <sup>-5</sup>
DHFR	5	1	0.831349206	6.96603x10 <sup>-5</sup>
NUP98	5	1	0.813492063	7.2627x10 <sup>-5</sup>
ACTR3B	5	1	0.928571429	7.37909x10 <sup>-5</sup>
CDC42	5	1	0.908730159	7.43407x10 <sup>-5</sup>
CTD-2017C7.1	5	1	0.952380952	7.69865x10 <sup>-5</sup>
USP9X	5	1	0.80952381	7.84697x10 <sup>-5</sup>

CCZ1B	5	1	0.813492063	8.0489x10 <sup>-5</sup>
CYP17A1	5	1	0.932539683	8.1x10 <sup>-5</sup>
ENSG00000253984	5	1	0.936507937	8.19238x10 <sup>-5</sup>
RP11-162D9.3	5	1	1	8.24539x10 <sup>-5</sup>
IVD	5	1	0.807539683	8.7481x10 <sup>-5</sup>
PRKX	5	1	0.819444444	8.79507x10 <sup>-5</sup>
HIP1	5	1	0.797619048	8.96357x10 <sup>-5</sup>
RP11-44M6.3	5	1	0.892857143	8.98026x10 <sup>-5</sup>
CCDC88B	5	1	0.958333333	9.02635x10 <sup>-5</sup>
PFN1	5	1	0.976190476	9.68894x10 <sup>-5</sup>
SLC11A1	5	1	0.853174603	9.82647x10 <sup>-5</sup>
TRAPPC2	5	1	0.972222222	0.000102522
KLF8	5	1	0.896825397	0.000105707
RP11-34P13.13	5	1	0.962301587	0.000110782
PROSER1	5	1	0.869047619	0.000113309
MYH9	5	1	0.785714286	0.000113439
ITGA5	5	1	0.841269841	0.000113467
C4BPB	5	1	1	0.000117354
RAB11FIP4	5	1	0.890873016	0.000120235
LIX1L	5	1	0.821428571	0.000126652
NUP43	5	1	0.83531746	0.000126796
WIPF2	5	1	0.94047619	0.000130196
RP11-130C19.3	5	1	0.817460317	0.000133227
CRX	5	1	0.896825397	0.000134962
CLRN1-AS1	5	1	0.890873016	0.000138242
HBP1	5	1	0.76984127	0.000138775
SSBP2	5	1	0.728174603	0.000138934
NR2C2	5	1	0.777777778	0.000139947
FMO5	5	1	0.888888889	0.000140357
BRCA2	5	1	0.821428571	0.000140461
RP11-735B13.1	5	1	0.801587302	0.000145701
WWTR1	5	1	0.890873016	0.000147523
CD97	5	1	0.984126984	0.000149017
RP13-452N2.1	5	1	0.829365079	0.000157252

EXOSC10	5	1	0.849206349	0.000159954
EPS15	5	1	0.777777778	0.000167741
RAP2B	5	1	0.821428571	0.000168063
SGK1	5	1	0.906746032	0.000170998
GTF2IRD2	5	1	0.932539683	0.000171126
SLC26A4	5	1	0.736111111	0.00017172
SFXN3	5	1	0.982142857	0.000172296
C9orf147	5	1	0.948412698	0.000173216
TULP4	5	1	0.837301587	0.000174837
RP11-229P13.2	5	1	0.906746032	0.000176612
ZBTB43	5	1	0.785714286	0.000176618
OR7D2	5	1	0.956349206	0.000179351
KCNK3	5	1	0.892857143	0.000186503
ANPEP	5	1	0.83531746	0.00018795
APOBEC3F	5	1	0.898809524	0.000188939
UBE2C	5	1	0.875	0.000189353
RBM23	5	1	0.884920635	0.000189562
SHQ1	5	1	0.859126984	0.000191719
ZNF410	5	1	0.76984127	0.000191802
LETM2	5	1	0.882936508	0.000194928
COCH	5	1	0.900793651	0.000197306
SLC34A2	5	1	0.902777778	0.000211517
PPIL3	5	1	0.873015873	0.000214713
CNOT8	5	1	0.785714286	0.00023124
GOLM1	5	1	0.827380952	0.000237764
WEE1	5	1	0.833333333	0.000242759
TMEM192	5	1	0.827380952	0.000257982
CTC-497E21.4	5	1	0.755952381	0.000258581
USP54	5	1	0.878968254	0.000259764
RP11-46H11.2	5	0.001781895	0.978174603	0.000261254
NPLOC4	5	1	0.829365079	0.00026502
NPAPI	5	1	0.819444444	0.000270449
BACH1	5	1	0.78968254	0.000274611
SPECC1	5	1	0.884920635	0.000280233

AC097382.5	5	1	0.871031746	0.000283686
RANGAP1	5	1	0.867063492	0.000284401
KREMEN1	5	1	0.916666667	0.000290402
CYFIP2	5	1	0.811507937	0.000292235
LTBP3	5	1	0.958333333	0.000296136
WDR76	5	1	0.827380952	0.0002976
KIAA1377	5	1	0.93452381	0.000297679
FAM201B	5	1	0.996031746	0.000299307
GCNT2	5	1	0.968253968	0.0002996
MCM4	5	1	0.785714286	0.000306015
PTPRG-AS1	5	1	0.849206349	0.000311472
MUC20	5	1	0.821428571	0.000313009
EDEM2	5	1	0.811507937	0.000313373
CSNK1A1	5	1	0.78968254	0.000314986
CBR3-AS1	5	1	0.976190476	0.000327165
SLC14A1	5	1	0.902777778	0.00032924
SLIRP	5	1	0.801587302	0.000336931
ACER3	5	1	0.930555556	0.000343877
TNK2	5	1	0.853174603	0.000345561
PARK2	5	1	0.942460317	0.000347702
CERS5	5	1	0.795634921	0.00035353
KRAS	5	1	0.880952381	0.000366831
KPNA2	5	1	0.817460317	0.000375391
ZNF969P	5	1	0.880952381	0.000383448
IGF2BP1	5	1	0.916666667	0.00038397
GSTO2	5	1	1	0.000386235
SPDYE2	5	1	0.753968254	0.000386413
POLA2	5	1	0.857142857	0.000387552
TCOF1	5	1	0.930555556	0.000387643
RAB33B	5	1	0.837301587	0.000391324
EXOSC6	5	1	0.740079365	0.000392324
AC005082.1	5	1	0.861111111	0.000394497
LETM1	5	1	0.83531746	0.000395466
UBE2B	5	1	0.96031746	0.000398932



AC073065.3	5	1	0.801587302	0.000404478
SLC30A4	5	1	0.869047619	0.000408209
PDCL	5	1	0.876984127	0.000409004
ERBB3	5	1	0.880952381	0.000409884
MX2	5	1	0.847222222	0.00041139
FBXO24	5	1	0.801587302	0.000422607
ENTPD4	5	1	0.732142857	0.000425416
TCEANC2	5	1	0.853174603	0.000427717
RNFT2	5	1	0.952380952	0.000430213
KIF21A	5	1	0.932539683	0.000437111
NOS1	5	1	0.924603175	0.000438989
ABL2	5	1	0.857142857	0.000440096
EMC4	5	1	0.827380952	0.000443613
BAG1	5	1	0.833333333	0.000444502
METTL8	5	1	0.875	0.000445289
NAA25	5	1	0.748015873	0.000446636
SGPP2	5	1	0.91468254	0.000454903
SAMSN1	5	1	0.767857143	0.000456563
SLC12A2	5	1	0.936507937	0.000459699
BCL10	5	1	0.817460317	0.000462023
FAM227A	5	1	0.94047619	0.000470848
ZNF829	5	1	0.890873016	0.000471395
FZD3	5	1	0.938492063	0.000481799
RPL32P3	5	1	0.884920635	0.00048802
STRIP2	5	1	0.811507937	0.000490451
TP53	5	1	0.825396825	0.00049127
FAM177A1	5	1	0.785714286	0.000502438
NCAPD2	5	1	0.912698413	0.00050816
ARSB	5	1	0.807539683	0.000510281
PIK3CB	5	1	0.876984127	0.00051107
RP3-340B19.5	5	1	0.898809524	0.000516053
ANKRD26P3	5	1	0.795634921	0.000518155
DUT	5	1	0.892857143	0.00052545
ZNF542	5	1	0.865079365	0.000537466

FAM212B	5	1	0.869047619	0.00054549
DSTYK	5	1	0.839285714	0.000547206
KLHL6	5	1	0.853174603	0.00054776
SERINC5	5	1	0.880952381	0.00055329
DUSP14	5	1	0.781746032	0.000553364
KIAA0101	5	1	0.992063492	0.00055438
GLIPR2	5	1	0.849206349	0.000561445
EPB41	5	1	0.859126984	0.000565895
PRPS2	5	1	0.884920635	0.000576489
TRIM65	5	1	0.94047619	0.000581376
DDX52	5	1	0.924603175	0.000581686
FAM134C	5	1	0.859126984	0.000593102
KIF1C	5	1	0.876984127	0.000597722
IPO9	5	1	0.765873016	0.000598815
ZNF568	5	1	0.924603175	0.000604
ZNF445	5	1	0.837301587	0.00061184
ZNF562	5	1	0.78968254	0.000613255
DIS3	5	1	0.751984127	0.000616873
CCDC150	5	1	0.93452381	0.000620912
CYP20A1	5	1	0.863095238	0.000621108
GPLD1	5	1	0.805555556	0.000628012
WARS2-IT1	5	1	0.936507937	0.000635103
NMT2	5	1	0.767857143	0.000649883
GSDMB	5	1	0.952380952	0.00065251
NMNAT1	5	1	0.912698413	0.000660313
DHX32	5	1	0.767857143	0.00066543
MCM8	5	1	0.825396825	0.000679832
ZNF713	5	1	0.876984127	0.000683751
SERPINB9	5	1	0.785714286	0.000698218
ASPM	5	1	0.80952381	0.000703777
TMEM41A	5	1	0.728174603	0.000715627
RP11-423H2.3	5	1	0.952380952	0.000731486
FER1L5	5	1	0.916666667	0.000734381
PGM3	5	1	0.890873016	0.000736165

GOLIM4	5	1	0.857142857	0.00078118
ARSG	5	1	0.880952381	0.000785329
AL353671.4	5	1	0.920634921	0.000788046
CD151	5	1	0.988095238	0.00079487
CTC-436P18.3	5	1	0.890873016	0.000802996
C15orf57	5	1	0.873015873	0.000812703
SH3BGRL3	5	1	0.857142857	0.000826085
IYD	5	1	0.964285714	0.000836577
RBMS1	5	1	0.886904762	0.000840987
AC005003.1	5	1	0.902777778	0.000844295
RP11-111M22.2	5	1	0.964285714	0.000845496
ACOT11	5	1	0.85515873	0.000861852
KIR3DX1	5	1	0.797619048	0.00086879
PRRG4	5	1	0.926587302	0.000871505
RP11-573D15.2	5	1	0.928571429	0.000878705
SERINC1	5	1	0.880952381	0.000883204
AARD	5	1	0.94047619	0.000886992
KLHL24	5	1	0.793650794	0.000901076
LRRC2	5	1	0.833333333	0.000910515
NAGK	5	1	0.839285714	0.000913131
NHLRC3	5	1	0.839285714	0.000917146
KIF11	5	1	0.80952381	0.000917296
AL162389.1	5	1	0.875	0.00092106
HLCS	5	1	0.763888889	0.000959049
LGALS1	5	1	0.869047619	0.000959918
TMEM120B	5	1	0.793650794	0.000966954
ZADH2	5	1	0.878968254	0.000973149
RPA2	5	1	0.714285714	0.000978305
DSG3	5	1	0.984126984	0.000981703
SUMF2	5	1	0.787698413	0.000991134
CYP51A1	5	1	0.847222222	0.000993545
KIF6	5	1	0.898809524	0.000997708
AFTPH	5	1	0.837301587	0.001007037
ST8SIA1	5	1	0.916666667	0.001025038

ANKLE1	5	1	0.968253968	0.001025843
AC016907.3	5	1	0.803571429	0.00102806
FOXN3	5	1	0.954365079	0.001030217
RNGTT	5	1	0.724206349	0.001049271
HPGDS	5	1	0.833333333	0.001050646
SLC48A1	5	1	0.861111111	0.00105858
OLA1P3	5	1	0.91468254	0.001064593
FBXO9	5	1	0.926587302	0.001067584
CDKL1	5	1	0.900793651	0.001067778
UEVLD	5	1	0.876984127	0.00107345
DIAPH3	5	1	0.912698413	0.001089419
ALG12	5	1	0.748015873	0.001089496
DDHD2	5	1	0.76984127	0.001090492
RP11-57H12.3	5	1	0.992063492	0.00109513
LIMS1	5	1	0.837301587	0.001101552
SNHG14	5	1	0.996031746	0.001102549
AC027269.2	5	1	0.876984127	0.001107588
RP11-382J12.1	5	1	0.757936508	0.001108269
EVI5	5	1	0.904761905	0.001111553
PIP4K2C	5	1	0.805555556	0.001130947
YES1	5	1	0.952380952	0.001136504
LONRF2	5	1	0.910714286	0.001144336
LAT2	5	1	0.827380952	0.001153167
RUNDC1	5	1	0.839285714	0.001154381
ZNF677	5	1	0.91468254	0.001159959
IRF9	5	1	0.76984127	0.001162352
HCAR1	5	1	0.757936508	0.00118698
ANAPC15	5	1	0.765873016	0.001210423
DKFZP686J19100	5	1	0.944444444	0.0012217
ZDHHC15	5	1	0.859126984	0.001230297
AC007308.6	5	1	0.904761905	0.001247702
TMBIM1	5	1	0.956349206	0.001249296
DNASE1L3	5	1	0.988095238	0.001263192
CACNA2D1	5	1	0.996031746	0.001269661

GALNTL5	5	1	0.968253968	0.001283732
DEC1	5	1	0.801587302	0.001310461
GPR132	5	1	0.882936508	0.001329536
SYT11	5	1	0.89484127	0.001334727
BRAF	5	1	0.880952381	0.001338959
UBAP2L	5	1	0.793650794	0.001342942
L3MBTL4	5	1	0.91468254	0.001343277
ZNF2	5	1	0.849206349	0.00134402
OSBPL9	5	1	0.817460317	0.001344806
MPP7	5	1	0.900793651	0.001345919
PARVA	5	1	0.958333333	0.001347261
POM121L10P	5	1	0.759920635	0.001367044
LUC7L	5	1	0.738095238	0.00137082
HUNK	5	1	0.926587302	0.001377889
OSBPL2	5	1	0.759920635	0.001377889
PRICKLE2-AS3	5	1	0.875	0.001409068
TRIM58	5	1	0.861111111	0.001431596
RP11-375F2.2	5	1	0.910714286	0.001441412
AF127577.8	5	1	0.896825397	0.001453481
TMEM220	5	1	0.759920635	0.001476128
ACSL6	5	1	0.952380952	0.001483993
RP5-1021I20.5	5	1	0.811507937	0.0014908
RP11-149I23.3	5	1	0.976190476	0.001506948
RP11-983P16.4	5	1	0.958333333	0.001528515
TEP1	5	1	0.763888889	0.00152995
LAPTM4B	5	1	0.795634921	0.001554445
PRR11	5	1	0.888888889	0.001554584
GALNT10	5	1	0.781746032	0.001566485
PLEKHM1P	5	1	0.972222222	0.00159024
TMEM14B	5	1	0.847222222	0.001602283
ACTG1P9	5	1	0.970238095	0.001603961
TOP2A	5	1	0.700396825	0.001609823
ZNF7	5	1	0.896825397	0.00161145
UTP11L	5	1	0.744047619	0.001614852

NWD1	5	1	0.922619048	0.001621117
EZR	5	1	0.928571429	0.001627086
CTD-2521M24.4	5	1	0.988095238	0.001640526
PDDC1	5	1	0.876984127	0.001677885
CENPF	5	1	0.821428571	0.001681474
EFNA5	5	1	0.890873016	0.001689971
INMT	5	1	0.98015873	0.001700539
ITK	5	1	0.884920635	0.001707623
PTPRC	5	1	0.829365079	0.001708857
FAM179A	5	1	0.94047619	0.001717476
KRT8	5	1	0.853174603	0.00172735
CTD-2339L15.1	5	1	0.865079365	0.001729417
TTC39C	5	1	0.779761905	0.00175111
PTBP3	5	1	0.748015873	0.001756705
SMC4	5	1	0.783730159	0.001772263
PCDP1	5	1	0.936507937	0.001781391
EXOC3L2	5	1	0.827380952	0.001788327
STRC	5	1	0.932539683	0.001788327
TK1	5	1	0.803571429	0.001795474
ENTPD1-AS1	5	1	0.888888889	0.001799728
HIST1H1B	5	1	0.984126984	0.001804388
C11orf57	5	1	0.867063492	0.001813663
ARMC9	5	1	0.942460317	0.001867327
C2CD3	5	1	0.771825397	0.001869059
NANOG	5	1	0.821428571	0.001873747
KIF13A	5	1	0.821428571	0.001881508
CCDC69	5	1	0.890873016	0.001892662
MCM7	5	1	0.69047619	0.001897905
TPMT	5	1	0.962301587	0.001908886
CLK1	5	1	0.773809524	0.001911468
PBX1	5	1	0.976190476	0.001937201
C1orf174	5	1	0.837301587	0.00197257
UNC80	5	1	0.968253968	0.001974074
ZNF776	5	1	0.839285714	0.001977221

MACC1	5	1	0.869047619	0.00200302
TARDBP	5	1	0.904761905	0.002038875
SMC6	5	1	0.853174603	0.002044456
AC005779.1	5	1	0.871031746	0.002056468
PICK1	5	1	0.851190476	0.002061943
MAP3K15	5	1	0.906746032	0.002076116
ZNF543	5	1	0.912698413	0.002089381
RPP14	5	1	0.807539683	0.00209118
MED4	5	1	0.763888889	0.002095289
ITGA3	5	1	0.950396825	0.002126146
CES4A	5	1	0.819444444	0.002144763
CROCCP3	5	1	0.876984127	0.002145252
MTND2P12	5	1	0.968253968	0.002185192
TXN2	5	1	0.847222222	0.00219304
PLOD3	5	1	0.956349206	0.002197485
CXorf23	5	1	0.777777778	0.002215541
SMIM7	5	1	0.936507937	0.002236641
SLFN5	5	1	0.94047619	0.002259066
FUT2	5	1	0.841269841	0.002259878
BZW1	5	1	0.920634921	0.002272324
HNRNPR	5	1	0.755952381	0.002313403
ARL4A	5	1	0.847222222	0.002321736
METTL20	5	1	0.94047619	0.002348329
AC025335.1	5	1	0.819444444	0.002364613
SLMAP	5	1	0.797619048	0.002389093
COG8	5	1	0.89484127	0.002404215
HAP1	5	1	0.938492063	0.002410865
ANKRD13A	5	1	0.841269841	0.002425952
CP	5	1	0.992063492	0.002434065
KIAA1429	5	1	0.841269841	0.002443634
FADS3	5	1	0.837301587	0.002450346
RP11-568K15.1	5	1	0.932539683	0.002454442
FAM115C	5	1	0.98015873	0.002458062
GOLGA3	5	1	0.744047619	0.002458503

APOL4	5	1	0.853174603	0.00247392
NOL9	5	1	0.853174603	0.00248266
RP5-1198O20.5	5	1	0.920634921	0.002507407
GSTT1	5	1	0.906746032	0.002516499
AC093415.2	5	1	0.811507937	0.002529326
UPP1	5	1	0.763888889	0.002539436
USHBP1	5	1	0.75	0.002545263
ATF7IP	5	1	0.988095238	0.002550913
AC005154.6	5	1	0.888888889	0.00256325
AC090587.2	5	1	0.956349206	0.002598491
VMP1	5	1	0.803571429	0.002622931
FAM184B	5	1	0.938492063	0.002651765
ABCB9	5	1	0.896825397	0.002684018
DNAJC27-AS1	5	1	0.988095238	0.002700869
RP11-90P5.5	5	1	0.936507937	0.002701949
SNX22	5	1	0.865079365	0.002704682
AL663093.3	5	1	0.906746032	0.002729256
CR759772.1	5	1	0.906746032	0.002729256
LRRC49	5	1	0.916666667	0.002739716
KPNA1	5	1	0.742063492	0.002740781
CTD-2368P22.1	5	1	0.950396825	0.002783987
MOB1B	5	1	0.83531746	0.002832798
LZTS1	5	1	0.827380952	0.002845907
TOR3A	5	1	0.900793651	0.002848391
KIAA0825	5	1	0.882936508	0.002850329
DEGS1	5	1	0.779761905	0.002880119
AC079354.1	5	1	0.906746032	0.002880573
ZNF3	5	1	0.761904762	0.002887452
SATL1	5	1	0.988095238	0.002890973
CDV3	5	1	0.813492063	0.002907107
RP11-640M9.2	5	1	0.988095238	0.00290763
HNRNPH2	5	1	0.795634921	0.002914415
TESK2	5	1	0.938492063	0.002972899
PHLDB1	5	1	0.813492063	0.003000764



MEFV	5	1	0.831349206	0.00300675
USP4	5	1	0.757936508	0.003014494
RP11-624L4.1	5	1	0.718253968	0.003021473
SLC9A4	5	1	0.89484127	0.003028628
RP11-144G7.2	5	0.001097855	0.986111111	0.003037821
OSBPL10	5	1	0.916666667	0.003053499
METTL12	5	1	0.918650794	0.003069747
RP11-106J23.2	5	1	0.779761905	0.003071668
HIST1H1E	5	1	0.93452381	0.003073136
HMGXB4	5	1	0.753968254	0.003095832
C12orf76	5	1	0.928571429	0.003100066
RRM2	5	1	0.75	0.003102168
TFIP11	5	1	0.765873016	0.003142914
MAFF	5	1	0.865079365	0.003172885
ZNF250	5	1	0.841269841	0.003173378
RIOK2	5	1	0.793650794	0.003175123
SUOX	5	1	0.849206349	0.003184599
RP11-131J3.1	5	1	0.956349206	0.003184671
RP11-483I13.2	5	1	0.956349206	0.003184671
C11orf1	5	1	0.958333333	0.003186143
AGO1	5	1	0.882936508	0.003220075
RP11-531A24.5	5	1	0.98015873	0.003255422
ESCO2	5	1	0.865079365	0.00330094
WASF2	5	1	0.94047619	0.003320321
TMEM128	5	1	0.984126984	0.003327087
ZC3H7B	5	1	0.833333333	0.0033588
NDUFA7	5	1	0.910714286	0.003358862
MOK	5	1	0.853174603	0.003457044
TSPAN31	5	1	0.882936508	0.003496778
RARS	5	1	0.755952381	0.003496929
TSPYL1	5	1	0.817460317	0.003515061
SLC11A2	5	1	0.906746032	0.003547135
TIAM1	5	1	0.996031746	0.003571364
OR4A10P	5	1	0.926587302	0.003579766

ZNF440	5	1	0.775793651	0.003582412
HSCB	5	1	0.948412698	0.003594644
CLCC1	5	1	0.956349206	0.003604904
TTC28-AS1	5	1	0.793650794	0.003606735
IGFBP2	5	1	0.869047619	0.003609267
C7orf10	5	1	0.910714286	0.003610112
RPL36	5	1	0.926587302	0.003611429
SLC7A11	5	1	0.853174603	0.003645043
SAP18	5	1	0.865079365	0.003645592
RDH16	5	1	0.886904762	0.003649236
EGFLAM-AS4	5	1	0.890873016	0.003657851
SBF2	5	1	0.755952381	0.003659079
CENPK	5	1	0.742063492	0.003691122
RP13-317D12.3	5	1	0.922619048	0.003746817
ZNF397	5	1	0.904761905	0.003747916
SIGLEC11	5	1	0.908730159	0.003766576
DRAXIN	5	1	0.831349206	0.003779941
MFSD11	5	1	0.823412698	0.003781059
AP000708.1	5	1	0.831349206	0.003788522
GTPBP1	5	1	0.706349206	0.003802926
ARL6IP1	5	1	0.781746032	0.003810091
CCDC104	5	1	0.936507937	0.003820439
AC217770.1	5	1	0.740079365	0.00382451
ICOSLG	5	1	0.900793651	0.003853913
TMEM41B	5	1	0.799603175	0.003872135
AC005831.1	5	1	0.964285714	0.00389068
CRYBB2P1	5	1	0.83531746	0.003918146
CENPL	5	1	0.89484127	0.003943385
SYCP3	5	1	0.833333333	0.003943385
AICDA	5	1	1	0.003991727
ZNF280B	5	1	0.976190476	0.004039011
RP11-390F4.3	5	1	0.867063492	0.004099462
ARSD	5	1	0.841269841	0.004107689
LCTL	5	1	0.878968254	0.004174655

RP11-122G18.5	5	1	0.952380952	0.004204758
CCR4	5	1	0.962301587	0.004229811
AP001597.1	5	1	0.775793651	0.004265731
NDRG1	5	1	0.857142857	0.004326213
WDR45	5	1	0.765873016	0.004344738
RP11-273G15.2	5	1	0.813492063	0.004347101
SEC22C	5	1	0.751984127	0.004360351
ARMCX4	5	1	0.94047619	0.004360385
C14orf105	5	1	0.976190476	0.004386208
PTCD1	5	1	0.936507937	0.004387258
GPR157	5	1	0.948412698	0.004443973
HYOU1	5	1	0.825396825	0.004472974
AP003068.18	5	1	0.96031746	0.00447358
ZNF19	5	1	0.819444444	0.004475801
RABGAP1L	5	1	0.946428571	0.004495947
GP2	5	1	0.922619048	0.004590015
DNAH14	5	1	0.83531746	0.004593553
LILRB4	5	1	0.746031746	0.004623572
PPIL6	5	1	0.972222222	0.004635827
WNT9B	5	1	0.847222222	0.004666909
RPS6KB2	5	1	0.823412698	0.004715751
AC111200.2	5	1	0.843253968	0.004770689
ACTR3	5	1	0.700396825	0.004782968
KDM2A	5	1	0.861111111	0.004792975
MORN1	5	1	0.950396825	0.004795083
KCNE4	5	1	0.922619048	0.004817857
ACTR10	5	1	0.857142857	0.004900828
SF3B2	5	1	0.916666667	0.004946344
E2F5	5	1	0.813492063	0.004955877
C21orf58	5	1	0.873015873	0.00497027
SSR2	5	1	0.73015873	0.005006032
RP11-536C10.3	5	1	0.992063492	0.005032417
PHTF1	5	1	0.884920635	0.005047122
CTD-3203P2.2	5	1	0.805555556	0.005088986

MZT2B	5	1	0.938492063	0.005107035
TNFAIP8L3	5	1	0.920634921	0.005125653
SLC25A5	5	1	0.805555556	0.005155052
PIGR	5	1	0.89484127	0.005196627
ZNF461	5	1	0.849206349	0.005200532
LBR	5	1	0.972222222	0.005278864
ADAM12	5	1	0.93452381	0.005279003
DACT3	5	1	0.748015873	0.005282106
NNT	5	1	0.724206349	0.005296379
FAM131A	5	1	0.970238095	0.005330778
MPHOSPH8	5	1	0.912698413	0.005341558
TMEM8A	5	1	0.908730159	0.005348263
TRIM45	5	1	0.902777778	0.005363448
AL356475.1	5	1	0.910714286	0.005368357
SRGAP3	5	1	0.845238095	0.005389137
FBXO42	5	1	0.916666667	0.005429421
PTGIS	5	1	0.857142857	0.005436918
PTTG1	5	1	0.751984127	0.005544492
CIT	5	1	0.83531746	0.005549274
CTNNA1	5	1	0.746031746	0.005590422
INIP	5	1	0.819444444	0.005599542
PXN	5	1	0.785714286	0.005607197
TPX2	5	1	0.825396825	0.005607667
VDAC1	5	1	0.849206349	0.00570578
TAB3	5	1	0.888888889	0.005708613
HERC1	5	1	0.75	0.005718665
NFKBIB	5	1	0.845238095	0.005804545
AC225613.6	5	1	0.867063492	0.005808466
UBR5	5	1	0.807539683	0.005815986
COQ5	5	1	0.920634921	0.005835534
MTL5	5	1	0.781746032	0.005854138
CEP44	5	1	0.819444444	0.005908673
COPB2	5	1	0.880952381	0.005916081
HFE	5	1	0.849206349	0.005932513

RP11-428G5.7	5	1	0.811507937	0.005944187
MYOF	5	1	0.867063492	0.00594546
ATP5S	5	1	0.813492063	0.006019256
POLB	5	1	0.748015873	0.006019256
COL8A1	5	1	0.926587302	0.006034724
PCDH11X	5	1	0.823412698	0.006035023
AC074117.10	5	1	0.958333333	0.006075811
PALM2	5	1	0.795634921	0.006075811
RP11-43F13.3	5	1	0.936507937	0.006106321
ZFYVE26	5	1	0.896825397	0.006114615
RP11-415I12.3	5	1	0.936507937	0.006153363
KIAA1324	5	1	0.793650794	0.006206927
C14orf119	5	1	0.700396825	0.006207193
TACC2	5	1	0.908730159	0.006241727
MRPS18C	5	1	0.839285714	0.00624221
SCFD1	5	1	0.78968254	0.006261837
GPR141	5	1	0.831349206	0.006268629
RP11-338E21.3	5	1	0.867063492	0.006278382
TP53RK	5	1	0.89484127	0.006283058
GOLGA2B	5	1	0.777777778	0.006289675
S100A10	5	1	0.896825397	0.006310403
POLR1A	5	1	0.908730159	0.006336906
RP11-418J17.1	5	1	0.751984127	0.006375074
FAM47E	5	1	0.920634921	0.006390688
SEC24B	5	1	0.928571429	0.006420857
ZNF483	5	1	0.819444444	0.006426054
DHRS2	5	1	0.795634921	0.006438907
RAB2B	5	1	0.813492063	0.006468948
IL21R	5	1	0.892857143	0.00650671
ZNF527	5	1	0.863095238	0.006510758
CREG2	5	1	0.946428571	0.006521714
EFCAB11	5	1	0.892857143	0.006553584
OTX2-AS1	5	1	0.930555556	0.006553617
NOS3	5	1	0.984126984	0.006616192

MSH6	5	1	0.78968254	0.006653253
LINC00476	5	1	0.85515873	0.006709436
CLSPN	5	1	0.712301587	0.006716035
HEATR5A	5	1	0.718253968	0.006786167
LMOD3	5	1	0.996031746	0.006802294
RP4-765C7.1	5	1	0.85515873	0.006815628
H3F3A	5	1	0.78968254	0.006816955
DFFA	5	1	0.902777778	0.006834209
ZNF620	5	1	0.761904762	0.006866238
NELFCD	5	1	0.775793651	0.006901197
BX284927.1	5	0.002362765	0.996031746	0.006904494
SPCS2	5	1	0.787698413	0.00696001
SRGAP1	5	1	0.96031746	0.006963807
MAPK3	5	1	0.902777778	0.006983326
PLA2G12A	5	1	0.746031746	0.007026481
ALS2	5	1	0.759920635	0.007038981
TRIM73	5	1	0.988095238	0.007045573
DDX46	5	1	0.734126984	0.007159539
ARHGAP22	5	1	0.976190476	0.007195107
STPG1	5	1	0.944444444	0.007202545
PTPN14	5	1	0.882936508	0.007254727
CCL22	5	1	0.797619048	0.007294936
ABRACL	5	1	0.68452381	0.007304834
GINS1	5	1	0.910714286	0.007319561
ZNF468	5	1	0.78968254	0.007320371
TYMP	5	1	0.928571429	0.007354343
HOMER2	5	1	0.853174603	0.00736893
ST6GAL2	5	1	0.978174603	0.007516274
TMPO	5	1	0.932539683	0.007516274
GPR19	5	1	0.797619048	0.007519744
FABP2	5	1	0.96031746	0.007580062
TPR	5	1	0.704365079	0.007620044
RP11-521B24.3	5	1	0.793650794	0.00764878
CYCS	5	1	0.759920635	0.007726281

EMP3	5	1	0.724206349	0.007728382
RAB13	5	1	0.948412698	0.007741538
CCDC141	5	1	0.96031746	0.007788428
TJAP1	5	1	0.761904762	0.007809753
BSN-AS2	5	1	0.83531746	0.007835418
CHAF1B	5	1	0.884920635	0.00784561
SLC35F6	5	1	0.908730159	0.007863225
LHFPL5	5	1	0.678571429	0.007874271
ZNF563	5	1	0.91468254	0.007886038
CLEC2D	5	1	0.80952381	0.007905115
ZNF331	5	1	0.823412698	0.007943915
ZNF555	5	1	0.888888889	0.007968074
RP11-64D24.4	5	1	0.94047619	0.007995768
TRMT10B	5	1	0.801587302	0.00805724
TAGLN2	5	1	0.968253968	0.008081492
CEP152	5	1	0.880952381	0.008086694
RBM3	5	1	0.696428571	0.008178679
PAQR5	5	1	0.880952381	0.008193039
CYBRD1	5	1	0.763888889	0.008225571
RAB3IP	5	1	0.777777778	0.00829131
AC004166.7	5	1	0.753968254	0.008331351
RP11-362F19.2	5	1	0.851190476	0.008365193
KLF9	5	1	0.781746032	0.008408493
GGA1	5	1	0.819444444	0.008462656
AKR1D1	5	1	0.956349206	0.008463525
POLE2	5	1	0.734126984	0.008467094
AL356356.1	5	1	0.716269841	0.008525288
UQCRQ	5	1	0.81547619	0.008790228
ACAD10	5	1	0.75	0.0087933
PCBD2	5	1	0.801587302	0.008853759
TRIM59	5	1	0.861111111	0.008864787
PRKAR2A-AS1	5	1	0.775793651	0.00887907
FAM111B	5	1	0.861111111	0.008880938
TXNRD2	5	1	0.875	0.008904129

PARP4	5	1	0.71031746	0.008957571
DENR	5	1	0.886904762	0.008974057
MR1	5	1	0.744047619	0.009017153
NUP210	5	1	0.71031746	0.009026906
FAM179B	5	1	0.944444444	0.009057143
DHX30	5	1	0.880952381	0.00912203
KANK1	5	1	0.753968254	0.009154695
LYRM7	5	1	0.888888889	0.009167774
MRE11A	5	1	0.712301587	0.009222845
DOPEY2	5	1	0.884920635	0.009267818
SNX15	5	1	0.807539683	0.009353536
ATP8B2	5	1	0.746031746	0.009390163
NEK8	5	1	0.926587302	0.009420456
DIABLO	5	1	0.886904762	0.009440477
DCX	5	1	0.96031746	0.009474804
CRTC3	5	1	0.783730159	0.009492855
C7orf41	5	1	0.793650794	0.009525793
TBC1D10A	5	1	0.912698413	0.009585596
FAM76A	5	1	0.853174603	0.009643125
UHRF1BP1L	5	1	0.813492063	0.009669191
PTPN7	5	1	0.791666667	0.009688616
RPS11	5	1	0.861111111	0.009712272
WWC3	5	1	0.859126984	0.009715343
RAD21-AS1	5	1	0.829365079	0.00978293
IBA57	5	1	0.880952381	0.009828932
WDR65	5	0.346334804	0.998015873	0.009902434
LMX1B	5	1	0.880952381	0.009992888
NARG2	5	1	0.765873016	0.00999404
BSPRY	5	1	0.851190476	0.010080047
CHMP1B	5	1	0.783730159	0.010089445
RRAGC	5	1	0.888888889	0.010229636
EFCAB5	5	1	0.841269841	0.010243598
C4orf26	5	1	0.952380952	0.010298195
RPUSD4	5	1	0.871031746	0.010299607



COX18	5	1	0.823412698	0.010324954
TMEM213	5	1	0.91468254	0.010366325
SNTB2	5	1	0.964285714	0.010376219
ATG10	5	1	0.793650794	0.010391233
RP4-669B10.3	5	1	0.942460317	0.010410933
ATAD5	5	1	0.728174603	0.010411975
PRMT10	5	1	0.884920635	0.010423221
VPS35	5	1	0.863095238	0.010436551
PLD3	5	1	0.884920635	0.010441617
SRSF10	5	1	0.811507937	0.010517869
TRNT1	5	1	0.861111111	0.010528708
FGFR2	5	1	0.968253968	0.01062196
XIAP-AS1	5	1	0.932539683	0.010650865
CD163	5	1	0.984126984	0.010689518
U2SURP	5	1	0.68452381	0.01069733
KANSL3	5	1	0.876984127	0.010743373
SIDT2	5	1	0.761904762	0.010814315
TRIM66	5	1	0.930555556	0.010826927
RP11-51J9.4	5	1	0.880952381	0.010838186
RHBDL2	5	1	0.928571429	0.010876432
CCT6A	5	1	0.791666667	0.010945534
FAM65B	5	1	0.825396825	0.010987909
C11orf92	5	1	0.908730159	0.011016491
BX247900.3	5	1	0.954365079	0.011090762
GPR155	5	1	0.819444444	0.011143337
SQSTM1	5	1	0.904761905	0.011191836
MTHFD1	5	1	0.73015873	0.011220477
POLR3K	5	1	0.793650794	0.011249465
CHEK1	5	1	0.755952381	0.011380287
SNRNP35	5	1	0.80952381	0.01138515
LAMC2	5	1	0.753968254	0.011451392
SNRPG	5	1	0.708333333	0.011507782
NEBL	5	1	0.996031746	0.01152592
ZNF561	5	1	0.924603175	0.011570586

AC108676.1	5	1	0.976190476	0.011792384
MRPS28	5	1	0.740079365	0.011800359
RP11-544A12.8	5	1	0.954365079	0.01182902
HAUS3	5	1	0.807539683	0.011836182
RP11-727A23.4	5	1	0.930555556	0.01188443
SNRPB	5	1	0.748015873	0.011944538
KIAA1841	5	1	0.831349206	0.011949047
CCDC108	5	0.001577796	0.98015873	0.012009927
HTR7P1	5	1	0.880952381	0.012025446
RP11-231P20.2	5	1	0.904761905	0.012027294
TMEM245	5	1	0.765873016	0.012038057
RP11-354E11.2	5	1	0.98015873	0.012054814
TAF9	5	1	0.98015873	0.012149981
PAAF1	5	1	0.833333333	0.012226425
HMGCL	5	1	0.924603175	0.012236478
ING5	5	1	0.841269841	0.01226067
TUBA1C	5	1	0.795634921	0.012319124
KIF14	5	1	0.892857143	0.012319996
RP11-12A16.3	5	1	0.759920635	0.012371851
RP11-125N22.2	5	0.110666739	0.988095238	0.012454534
C3orf72	5	1	0.98015873	0.012482526
MSI2	5	1	0.83531746	0.012495043
CLIC1	5	1	0.932539683	0.012510551
HAUS2	5	1	0.80952381	0.012543206
ADAMTS16	5	1	0.765873016	0.012587717
STK33	5	1	0.976190476	0.012599086
RP11-411K7.1	5	1	0.843253968	0.012717056
USP32P1	5	1	0.83531746	0.01284035
RASGRP3	5	1	0.886904762	0.012874102
RP11-219E24.1	5	1	0.878968254	0.012912939
ISG20L2	5	1	0.928571429	0.012960659
PIP5K1B	5	1	0.950396825	0.013003202
GS1-122H1.2	5	1	0.978174603	0.013062901
FLCN	5	1	0.94047619	0.013069495

RP11-169O17.5	5	1	0.797619048	0.013076072
CDK1	5	1	0.869047619	0.013132043
PTPRVP	5	1	0.988095238	0.013155795
C4orf36	5	1	0.817460317	0.013188555
FRMD4B	5	1	1	0.013193415
NUDT9	5	1	0.837301587	0.013193415
RASSF8	5	1	0.886904762	0.013201187
FKBP14	5	1	0.821428571	0.0132084
DNAH3	5	0.503453986	0.976190476	0.013223794
AC009951.2	5	1	0.795634921	0.013239745
PANK3	5	1	0.734126984	0.013443018
STARD4	5	1	0.83531746	0.01356295
VGLL4	5	1	0.823412698	0.013596497
TXN	5	1	0.773809524	0.013706235
ALDH6A1	5	1	0.928571429	0.013716206
ARL6IP5	5	1	0.900793651	0.013742343
ALPK1	5	1	0.83531746	0.01377912
NDFIP1	5	1	0.801587302	0.013835976
C4orf21	5	1	0.80952381	0.013889773
TTPAL	5	1	0.952380952	0.013891622
CD46	5	1	0.944444444	0.013944656
FAM200B	5	1	0.918650794	0.013991553
ZNF28	5	1	0.906746032	0.014058853
C9orf85	5	1	0.795634921	0.014069257
CDKAL1	5	1	0.83531746	0.014082528
SNHG16	5	1	0.948412698	0.014278151
PLAC8	5	1	0.742063492	0.0143206
C11orf73	5	1	0.765873016	0.014391968
GATAD1	5	1	0.761904762	0.014417465
RP11-409I10.2	5	1	0.898809524	0.014445363
ZNF823	5	1	0.843253968	0.014451746
MFN1	5	1	0.922619048	0.014505535
MYT1L	5	1	0.942460317	0.014519459
MZT2A	5	1	0.831349206	0.014664926

GBA	5	1	0.871031746	0.014727852
OSGEP	5	1	0.773809524	0.014770314
PPP1R37	5	1	0.831349206	0.014775057
RP11-486O13.2	5	1	0.916666667	0.014789053
CFP	5	1	0.847222222	0.014904648
PTDSS2	5	1	0.791666667	0.014955924
TRPM8	5	1	0.791666667	0.015055073
GPRIN2	5	1	0.942460317	0.015059329
DTX3L	5	1	0.78968254	0.015125813
AL353662.2	5	1	0.869047619	0.015158271
ADI1	5	1	0.876984127	0.01517757
TARS2	5	1	0.908730159	0.015248244
RP11-325N19.3	5	1	0.936507937	0.015303768
FGFR1	5	1	0.936507937	0.015327735
EEF2K	5	1	0.825396825	0.015528197
BMS1P5	5	1	0.886904762	0.015610362
DTX2	5	1	0.833333333	0.015673426
MPST	5	1	0.884920635	0.01569477
PIWIL2	5	1	0.867063492	0.015743692
SYNE3	5	1	0.728174603	0.015882322
STEAP2	5	1	0.906746032	0.016012143
GDPD5	5	1	0.952380952	0.016061586
RBM19	5	1	0.829365079	0.01607466
ZNF417	5	1	0.845238095	0.016165463
DGKB	5	1	0.920634921	0.016335961
DIEXF	5	1	0.93452381	0.016385839
AC024560.3	5	1	0.847222222	0.016408521
LEPR	5	1	0.892857143	0.016416573
PCMTD1P3	5	0.169795881	0.978174603	0.016444047
RP11-519G16.3	5	1	0.771825397	0.016447385
STMND1	5	1	0.785714286	0.016475941
THG1L	5	1	0.849206349	0.016542698
DECR1	5	1	0.869047619	0.01671526
ACTR1A	5	1	0.851190476	0.016756106

VRK2	5	1	0.763888889	0.016852932
FUT10	5	1	0.742063492	0.016955417
ZNF286B	5	1	0.962301587	0.017013891
SLC6A6	5	1	0.78968254	0.017021805
FAM149B1	5	1	0.76984127	0.017109791
MPHOSPH9	5	1	0.954365079	0.017209344
RP11-503N18.5	5	1	0.936507937	0.017212966
BBS5	5	1	0.966269841	0.017286178
CNOT6	5	1	0.783730159	0.017338586
ZFYVE20	5	1	0.93452381	0.017479759
FLVCR1	5	1	0.837301587	0.017514647
RP11-10O22.1	5	1	0.876984127	0.01752036
SFXN5	5	1	0.803571429	0.017570981
CDK5RAP2	5	1	0.833333333	0.017714103
RP11-453E17.1	5	1	0.908730159	0.017714103
ANKS4B	5	1	0.880952381	0.017715917
LCOR	5	1	0.722222222	0.017926186
CD99P1	5	1	0.765873016	0.017952988
ARFGEF2	5	1	0.767857143	0.018007234
DSCR3	5	1	0.80952381	0.018057353
EXOSC2	5	1	0.829365079	0.018064771
CLIC5	5	0.000464468	1	0.01808642
SCNM1	5	1	0.878968254	0.018130197
SLC9A7	5	1	0.837301587	0.018256443
PSMD9	5	1	0.781746032	0.018258098
TTC26	5	1	0.736111111	0.018297968
MGP	5	1	0.942460317	0.018368752
CYP27C1	5	1	0.932539683	0.018399815
RAB3B	5	1	0.924603175	0.01851752
DOCK4	5	0.717575899	0.954365079	0.018550069
NLRP12	5	1	0.876984127	0.018680568
C15orf40	5	1	0.984126984	0.018755951
SEC24D	5	1	0.871031746	0.018976273
CYB5R2	5	1	0.892857143	0.019068569

CTC-281B15.1	5	1	0.886904762	0.01909221
RP11-18A3.4	5	1	0.928571429	0.019107596
FGD4	5	1	0.831349206	0.01913299
UPK1B	5	1	0.946428571	0.019169181
MOGAT3	5	1	0.906746032	0.019219317
C1orf115	5	1	0.734126984	0.019242815
MAP3K1	5	1	0.839285714	0.019252181
ERI1	5	1	0.765873016	0.019272987
RANBP1	5	1	0.674603175	0.019272987
RP11-87M18.2	5	1	0.912698413	0.019303791
COQ4	5	1	0.932539683	0.019308645
SLC28A2	5	1	0.910714286	0.01937839
TUFT1	5	1	0.767857143	0.019378713
KSR1	5	1	0.853174603	0.019383729
MAP2K7	5	1	0.851190476	0.019390843
NFU1	5	1	0.845238095	0.019393736
MAN2B1	5	1	0.781746032	0.019470636
STOM	5	1	0.740079365	0.019595302
RP11-49I4.3	5	1	0.984126984	0.01961495
NCOA1	5	1	0.924603175	0.019645457
RP11-277A4.4	5	1	0.936507937	0.019657891
WWC1	5	1	0.91468254	0.019661496
ZNF844	5	1	0.863095238	0.019720953
USP32P2	5	1	0.867063492	0.019749411
RP11-139I14.2	5	1	0.944444444	0.019976723
RP11-323J4.1	5	1	0.83531746	0.020005928
FBXO5	5	1	0.936507937	0.020042071
RIN2	5	1	0.880952381	0.02023657
NOC2L	5	1	0.837301587	0.02050431
AKNA	5	1	0.882936508	0.02067673
PIGH	5	1	0.823412698	0.020731091
DPF2	5	1	0.80952381	0.020744541
MTERFD3	5	1	0.761904762	0.020922989
SLC35F5	5	1	0.744047619	0.020994469

TTLL7	5	1	0.871031746	0.02101887
DDX39B-AS1	5	0.003564842	0.966269841	0.021028504
LIN28A	5	1	0.93452381	0.021073904
SYNE2	5	1	0.952380952	0.021073904
KIF23	5	1	0.757936508	0.021136203
RP11-301N24.3	5	0.991093459	0.968253968	0.021273236
RP11-115C21.2	5	1	0.950396825	0.021311548
UGT2B7	5	1	0.954365079	0.02131956
PKN3	5	1	0.757936508	0.021333812
PLXDC1	5	1	0.926587302	0.021546312
KIAA0907	5	1	0.765873016	0.021719398
ZNF284	5	1	0.857142857	0.021756736
SH3BP5	5	1	0.96031746	0.021804497
LAMA5	5	1	0.966269841	0.021840625
HPS1	5	1	0.78968254	0.0219063
C10orf11	5	1	0.797619048	0.022119474
RNF115	5	1	0.781746032	0.022302119
LARP4	5	1	0.799603175	0.02234824
PPP2CA	5	1	0.799603175	0.022354352
TNIP3	5	1	0.988095238	0.022607712
MSANTD3	5	1	0.748015873	0.022680323
RP11-169L17.3	5	1	0.926587302	0.022773707
CNOT10	5	1	0.748015873	0.0228198
DIS3L2	5	1	1	0.022868713
SNAPC1	5	1	0.785714286	0.022976112
CTTNBP2NL	5	1	0.948412698	0.023004808
KLF2	5	1	0.912698413	0.023074375
MCPH1	5	1	0.821428571	0.023174393
ZSCAN4	5	1	0.751984127	0.023207661
UBXN7	5	1	0.85515873	0.023233606
SLAMF7	5	1	0.912698413	0.023285301
IMPA2	5	1	0.938492063	0.023296161
GTF2H2C	5	1	0.777777778	0.023306559
UFD1L	5	1	0.948412698	0.023327195

AKT2	5	1	0.801587302	0.023357672
AC104667.3	5	1	1	0.02338554
RAB21	5	1	0.785714286	0.02344858
SMARCC1	5	1	0.793650794	0.023451585
ZNF816	5	1	0.839285714	0.023463034
APBB2	5	1	0.956349206	0.023555251
GLYATL2	5	0.000591395	0.996031746	0.023719932
PDLIM3	5	1	0.93452381	0.023906042
GPI	5	1	0.751984127	0.02394771
AC004019.13	5	1	0.865079365	0.024040523
LINC00266-1	5	1	0.807539683	0.024055585
C2CD2L	5	1	0.946428571	0.024065398
CEP97	5	1	0.785714286	0.024096348
CYB561D2	5	1	0.938492063	0.024148728
DRAM1	5	1	0.771825397	0.024192503
ABCG5	5	1	0.928571429	0.024310553
C9orf38	5	1	0.787698413	0.024340589
METTL7A	5	1	0.742063492	0.024352143
CAPN7	5	1	0.865079365	0.024365126
C6orf57	5	1	0.890873016	0.024518013
RP11-382E9.1	5	1	0.833333333	0.024519067
TMEM169	5	1	0.944444444	0.024519719
ANKRD13D	5	1	0.841269841	0.024536398
B3GALNT2	5	1	0.968253968	0.024606744
ELAVL2	5	1	0.996031746	0.024710275
SSBP1	5	1	0.666666667	0.024732893
PIIP5K1	5	1	0.829365079	0.024734959
GPRC5A	5	1	0.952380952	0.024798951
ABCC4	5	1	0.843253968	0.024819265
NUDT4	5	1	0.797619048	0.024819265
CHORDC1	5	1	0.732142857	0.024831057
BEST1	5	1	0.791666667	0.024853664
CLU	5	1	0.976190476	0.024895169
UGDH	5	1	0.880952381	0.024945498



EXOC8	5	1	0.78968254	0.024959394
AC092295.7	5	1	0.803571429	0.025006848
UBE2V2	5	1	0.777777778	0.025043599
ERC1	5	1	0.777777778	0.025046639
SCN3B	5	1	0.740079365	0.025058916
ADIPOQ-AS1	5	1	0.920634921	0.025118303
TET1	5	1	0.744047619	0.025162121
IFT81	5	1	0.912698413	0.025323454
PCYOX1	5	1	0.956349206	0.025366213
SLC2A1-AS1	5	1	0.867063492	0.02539835
PFKM	5	1	0.976190476	0.02543161
RP11-77K12.4	5	1	0.75	0.025433291
NDUFV3	5	1	0.867063492	0.025469215
RP1-102G20.5	5	1	0.968253968	0.025635865
TLE3	5	1	0.799603175	0.025709623
C8orf34	5	1	0.78968254	0.025826266
SPCS3	5	1	0.740079365	0.026116411
TRMT44	5	1	0.83531746	0.026165403
AC004878.2	5	1	0.837301587	0.026491048
C1orf86	5	1	0.839285714	0.026521552
RMI1	5	1	0.73015873	0.026565344
CHPT1	5	1	0.736111111	0.026673644
NVL	5	1	0.888888889	0.026701049
RP11-58E21.1	5	1	0.771825397	0.026773904
C14orf2	5	1	0.805555556	0.026808193
GPR112	5	1	0.984126984	0.026921336
PRR19	5	1	0.91468254	0.026964752
SWSAP1	5	1	0.962301587	0.026983594
AC005152.2	5	1	0.75	0.027044515
LRRK2	5	1	0.726190476	0.027227557
MOBP	5	1	0.759920635	0.027414047
CNTLN	5	1	0.75	0.027731215
BCDIN3D-AS1	5	1	0.767857143	0.027809089
GRM6	5	1	0.882936508	0.027813339

AC003079.1	5	1	0.886904762	0.027972349
CLEC2B	5	1	0.94047619	0.028031907
ERAP1	5	1	0.912698413	0.028240069
PDE4C	5	1	0.950396825	0.028300189
PRR7-AS1	5	1	0.89484127	0.028316796
PTP4A2	5	1	0.831349206	0.028429618
PKD1	5	1	0.952380952	0.028538165
KBTBD6	5	1	0.847222222	0.028670162
IMMT	5	1	0.807539683	0.028748093
HSD17B11	5	1	0.726190476	0.028764727
RP5-886K2.1	5	1	0.968253968	0.028889231
DHTKD1	5	1	0.757936508	0.028899117
IL6ST	5	1	0.801587302	0.029021301
C16orf62	5	1	0.823412698	0.029043229
SKIL	5	1	0.863095238	0.029215812
PRPF38A	5	1	0.827380952	0.029226851
CPM	5	1	0.817460317	0.029539591
VPS41	5	1	0.803571429	0.029588768
TCIRG1	5	1	0.861111111	0.029591928
RP11-561C5.3	5	1	0.886904762	0.029614917
C10orf118	5	1	0.80952381	0.029651866
CHMP3	5	1	0.787698413	0.029746596
ZNF66	5	1	0.734126984	0.029816437
SLC44A1	5	1	0.936507937	0.029909107
CATSPERG	5	1	0.871031746	0.030144227
RP5-881L22.4	5	0.128445195	0.954365079	0.030232405
ABI2	5	1	0.821428571	0.030273023
C3orf65	5	1	0.748015873	0.030450702
ACTBP13	5	1	0.876984127	0.03064101
CCZ1	5	1	0.829365079	0.030664956
AGXT	5	1	0.80952381	0.030715021
BANP	5	1	0.912698413	0.030715021
GPR64	5	1	0.992063492	0.030764929
BID	5	1	0.884920635	0.031003537

C12orf43	5	1	0.871031746	0.031078913
GLB1L	5	1	0.827380952	0.031169155
BEND2	5	1	1	0.031285816
AC104651.2	5	0.000762734	0.992063492	0.031433029
RP11-244H18.4	5	1	0.797619048	0.031663859
AC004941.3	5	1	0.882936508	0.031793238
SEC14L5	5	1	0.880952381	0.031794838
TTLL3	5	1	0.827380952	0.032074999
NIPAL3	5	1	0.771825397	0.032103283
AC055764.1	5	1	0.922619048	0.032127455
HJURP	5	1	0.884920635	0.032138246
MYO15A	5	1	0.771825397	0.032169185
REEP3	5	1	0.817460317	0.032465273
COX17	5	1	0.988095238	0.032666155
MYCBPAP	5	1	0.817460317	0.032760652
MASTL	5	1	0.801587302	0.033170391
PRELP	5	1	0.890873016	0.0331959
ZNF827	5	1	0.714285714	0.033335784
DHX57	5	1	0.81547619	0.033381213
FES	5	1	0.839285714	0.033467016
MS4A6A	5	1	0.825396825	0.033519761
IKZF1	5	1	0.837301587	0.033611373
DUXA	5	1	0.781746032	0.033685351
CTAGE5	5	1	0.751984127	0.033934484
BTBD7P1	5	1	0.93452381	0.03409804
ZNF69	5	1	0.936507937	0.034109516
C2orf54	5	1	0.992063492	0.034111759
TIMM17A	5	1	0.819444444	0.034463098
ZNF684	5	1	0.744047619	0.034465646
AP4S1	5	1	0.865079365	0.034991482
CALCOCO2	5	1	0.833333333	0.03532745
PIGQ	5	1	0.918650794	0.035328914
CAT	5	1	0.837301587	0.035335907
ZFP14	5	1	0.787698413	0.035515734

MALL	5	1	0.952380952	0.035771857
CCT6P3	5	1	0.831349206	0.035809329
TRIM72	5	1	0.900793651	0.036117819
MAST3	5	1	0.791666667	0.036154844
U73166.2	5	1	0.890873016	0.036391379
ELP6	5	1	0.787698413	0.036651202
PAPSS2	5	1	0.738095238	0.036713233
TGFB1	5	1	0.948412698	0.036955178
SPA17	5	1	0.96031746	0.036976647
ZEB1	5	1	0.912698413	0.036976647
RP11-680F8.1	5	0.001099376	0.986111111	0.036980842
NAAA	5	1	0.819444444	0.037039473
LUZP2	5	1	0.956349206	0.037050432
NUDT22	5	1	0.831349206	0.037074842
DBF4B	5	1	0.932539683	0.037118177
KAT6A	5	1	0.807539683	0.037141821
RP11-589M4.3	5	1	0.892857143	0.037398862
RGS13	5	1	0.763888889	0.03745816
BX005432.1	5	1	0.998015873	0.037495553
BX908738.1	5	1	0.998015873	0.037495553
CR753509.1	5	1	0.998015873	0.037495553
CR933842.1	5	1	0.998015873	0.037495553
CR936918.1	5	1	0.998015873	0.037495553
SLC12A9	5	1	0.926587302	0.037529566
RP11-576D8.4	5	1	0.966269841	0.0375786
MTND4P30	5	1	0.829365079	0.03762136
C8orf31	5	1	0.761904762	0.037622934
ZNF277	5	1	0.803571429	0.037910588
ZNF496	5	1	0.91468254	0.037953906
PRSS23	5	1	0.920634921	0.038124807
POU2AF1	5	1	0.976190476	0.038302736
BRWD1-IT1	5	0.000520375	0.998015873	0.038518838
PACSIN2	5	1	0.751984127	0.038632079
DCBLD2	5	1	0.823412698	0.038868634

GEN1	5	1	0.801587302	0.038904872
MRPL48	5	1	0.763888889	0.038918752
PRKCA	5	1	0.880952381	0.038934677
NUTF2	5	1	0.78968254	0.038948087
TRAPPC4	5	1	0.718253968	0.038962465
APIP	5	1	0.71031746	0.039482642
C1orf61	5	1	0.886904762	0.039499431
UBA1	5	1	0.797619048	0.039613432
CBWD7	5	1	0.738095238	0.039647614
ZMYM6	5	1	0.757936508	0.039929275
RP11-554D14.6	5	1	0.924603175	0.040063463
CTCFL	5	1	0.988095238	0.040135224
VHL	5	1	0.825396825	0.04029815
PVT1	5	1	0.712301587	0.040466082
AP001187.1	5	1	0.819444444	0.040625028
AKT3	5	1	0.986111111	0.040792274
PDE4DIP	5	1	0.94047619	0.040792274
ASCC2	5	1	0.863095238	0.040822081
KLRK1	5	1	0.900793651	0.040850756
CHN1	5	1	0.976190476	0.040865227
SUPT20H	5	1	0.920634921	0.040865227
MITD1	5	1	0.81547619	0.041052032
AC010886.2	5	1	0.978174603	0.041073449
ATP6V0D2	5	1	0.89484127	0.041138628
FAM53B	5	1	0.918650794	0.041139697
UQCRB	5	1	0.869047619	0.041169525
PLEKHG3	5	1	0.757936508	0.041383954
ATP5G2	5	1	0.708333333	0.041511247
RP11-66N24.4	5	1	0.91468254	0.041518819
FOXP1-AS1	5	1	0.740079365	0.041628178
UBTFL3	5	0.576810548	0.972222222	0.041844877
UBTFL5	5	0.576810548	0.972222222	0.041844877
COL15A1	5	1	0.900793651	0.041984817
DGCR5	5	1	0.714285714	0.042083107

FBLIM1	5	1	0.851190476	0.042205612
LAMA4	5	1	0.948412698	0.042362532
PON3	5	1	0.998015873	0.042389907
MPP6	5	1	0.736111111	0.042588987
CHDH	5	1	0.882936508	0.042866975
WISP2	5	1	0.869047619	0.042871583
PLA2G4B	5	1	0.767857143	0.043082142
VSIG10	5	1	0.646825397	0.043169675
SLC4A8	5	1	0.775793651	0.043494194
PSMD6-AS2	5	1	0.755952381	0.043575442
POU5F1	5	1	0.952380952	0.043680134
IL12RB1	5	1	0.821428571	0.043813259
ABCB5	5	1	0.944444444	0.043951606
MIR1255B1	5	1	0.821428571	0.044054415
AC115618.1	5	1	0.781746032	0.044056574
C9orf96	5	1	0.813492063	0.044172921
AL662822.15	5	1	0.964285714	0.044269749
AL844213.10	5	1	0.964285714	0.044269749
CR762481.2	5	1	0.964285714	0.044269749
POLR2A	5	1	0.801587302	0.044269749
MKMK1	5	1	0.80952381	0.044547349
NME6	5	1	0.904761905	0.04457039
VMA21	5	1	0.753968254	0.044694795
ACACA	5	1	0.922619048	0.044709693
TMPRSS4	5	1	0.837301587	0.044763135
AIM2	5	1	0.908730159	0.044977575
WDR55	5	1	0.787698413	0.044985242
KIF4A	5	1	0.817460317	0.045256118
C16orf87	5	1	0.847222222	0.045329819
CBX1	5	1	0.992063492	0.045386442
RP11-74M13.4	5	1	0.910714286	0.045402028
RP13-49I15.5	5	1	0.926587302	0.045402028
TNRC18	5	1	0.80952381	0.045438614
FNBP1P1	5	1	0.998015873	0.045587273

ACAP3	5	1	0.781746032	0.045708709
IQCE	5	1	0.712301587	0.045794507
NCKAP5L	5	1	0.988095238	0.045832414
CFLAR	5	1	0.726190476	0.045860361
MAP4K4	5	1	0.904761905	0.045983199
RP11-466F5.8	5	1	0.738095238	0.046181526
LARP1	5	1	0.718253968	0.046331495
RP11-632K5.5	5	1	0.920634921	0.046332485
PARP11	5	1	0.740079365	0.046463723
NOL8	5	1	0.916666667	0.046543099
HECTD4	5	1	0.928571429	0.046551541
ZNRF3-AS1	5	1	0.926587302	0.04691801
RP11-19G24.2	5	0.015266843	1	0.047109216
TERF1	5	1	0.906746032	0.047112487
ZYG11B	5	1	0.831349206	0.047139776
RP11-464F9.9	5	1	0.837301587	0.047143684
EXTL3	5	1	0.857142857	0.04724011
CDCA5	5	1	0.845238095	0.047528316
P4HB	5	1	0.920634921	0.047647451
MINOS1	5	1	0.787698413	0.047694593
CPSF2	5	1	0.755952381	0.048021523
SLC8A1-AS1	5	1	0.968253968	0.048476087
SUMO2	5	1	0.670634921	0.048522395
WBSCR22	5	1	0.757936508	0.048995576
ZFYVE16	5	1	0.742063492	0.049012387
PLEKHG2	5	1	0.78968254	0.049110744
FEN1	5	1	0.787698413	0.049275054
C15orf38	5	1	0.958333333	0.049326575
RPUSD3	5	1	0.753968254	0.049459796
PLCD3	5	1	0.845238095	0.049703663
ARHGAP29	5	1	0.89484127	0.049781112
PIGX	5	1	0.83531746	0.049984693
YIPF6				0.020847556