

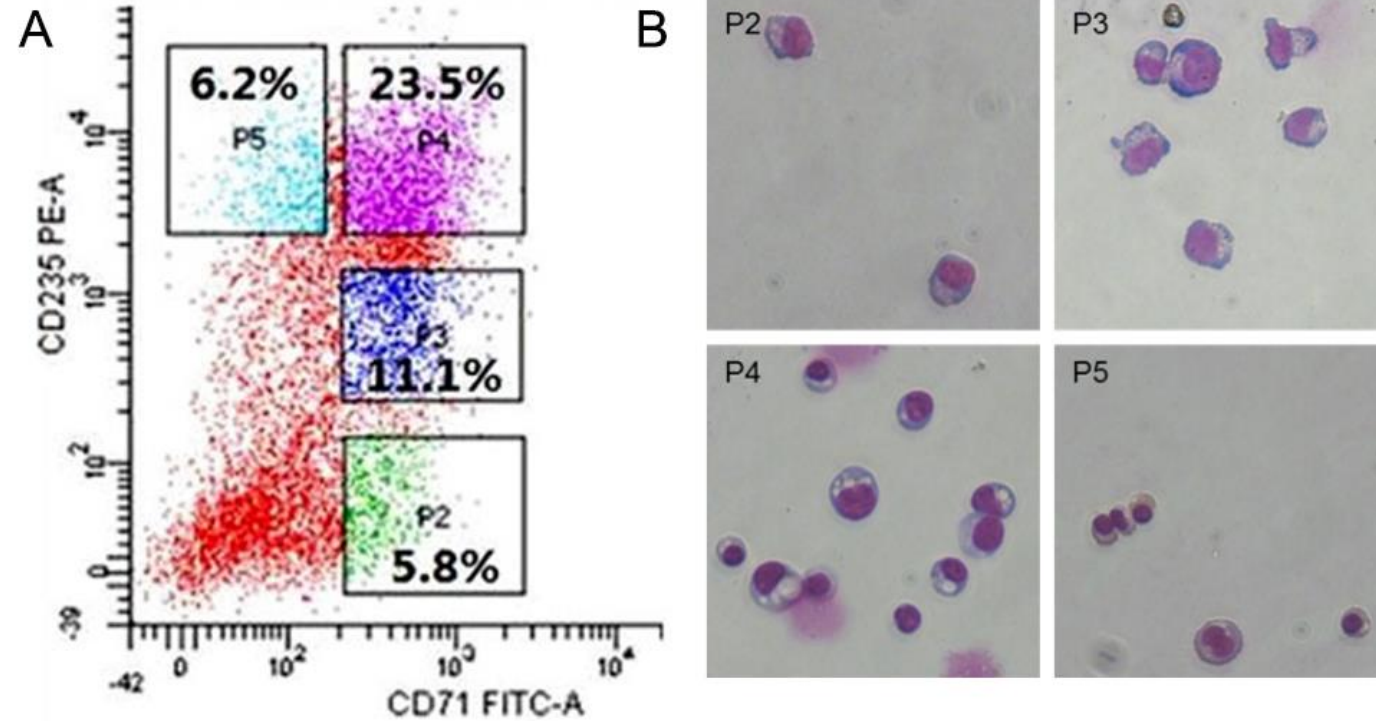


Fig. S1 Cell sorting of human erythroblasts at different stages of erythroid differentiation. (A) FACS sorting profiles of erythroblast cultures at day 14. Cells were sorted based on GPA and CD71 staining. (B) Representative cytopsin images show erythroblasts from each gated Wright-Giemsa-stained fraction.

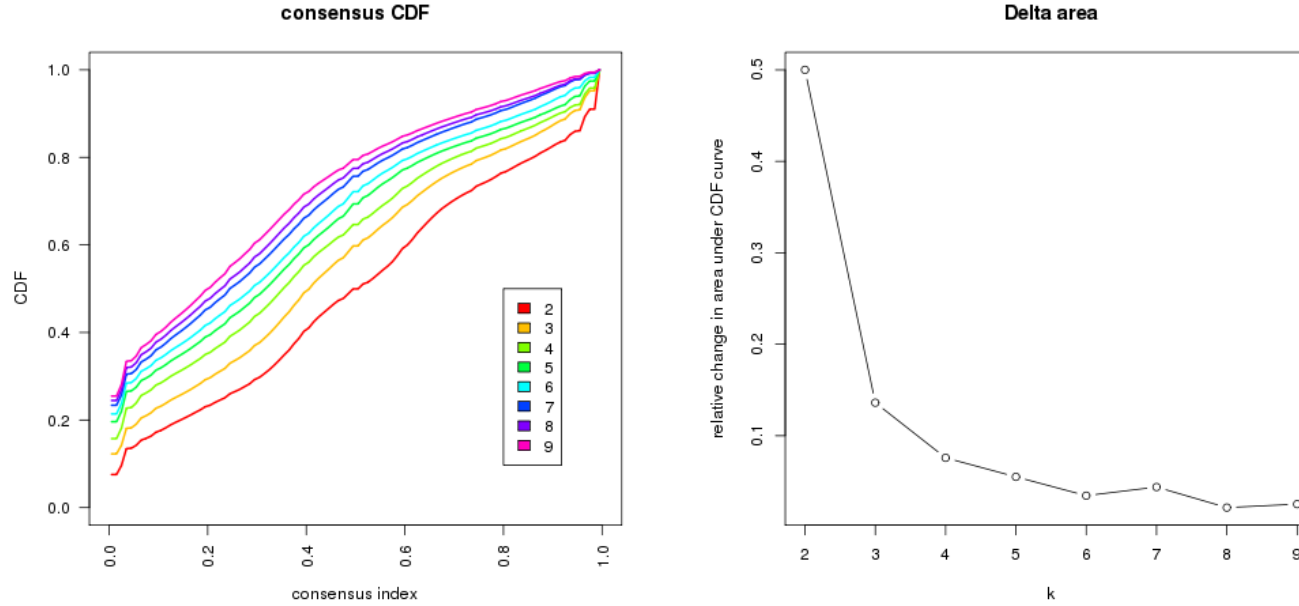


Fig. S2 K-means clustering of differentially expressed genes during erythrocyte development. Empirical cumulative distribution function (CDF) plots display consensus distributions for each k . The distribution reaches an approximate maximum at $k=4$. Delta area plot shows the relative change in area under the CDF curve.

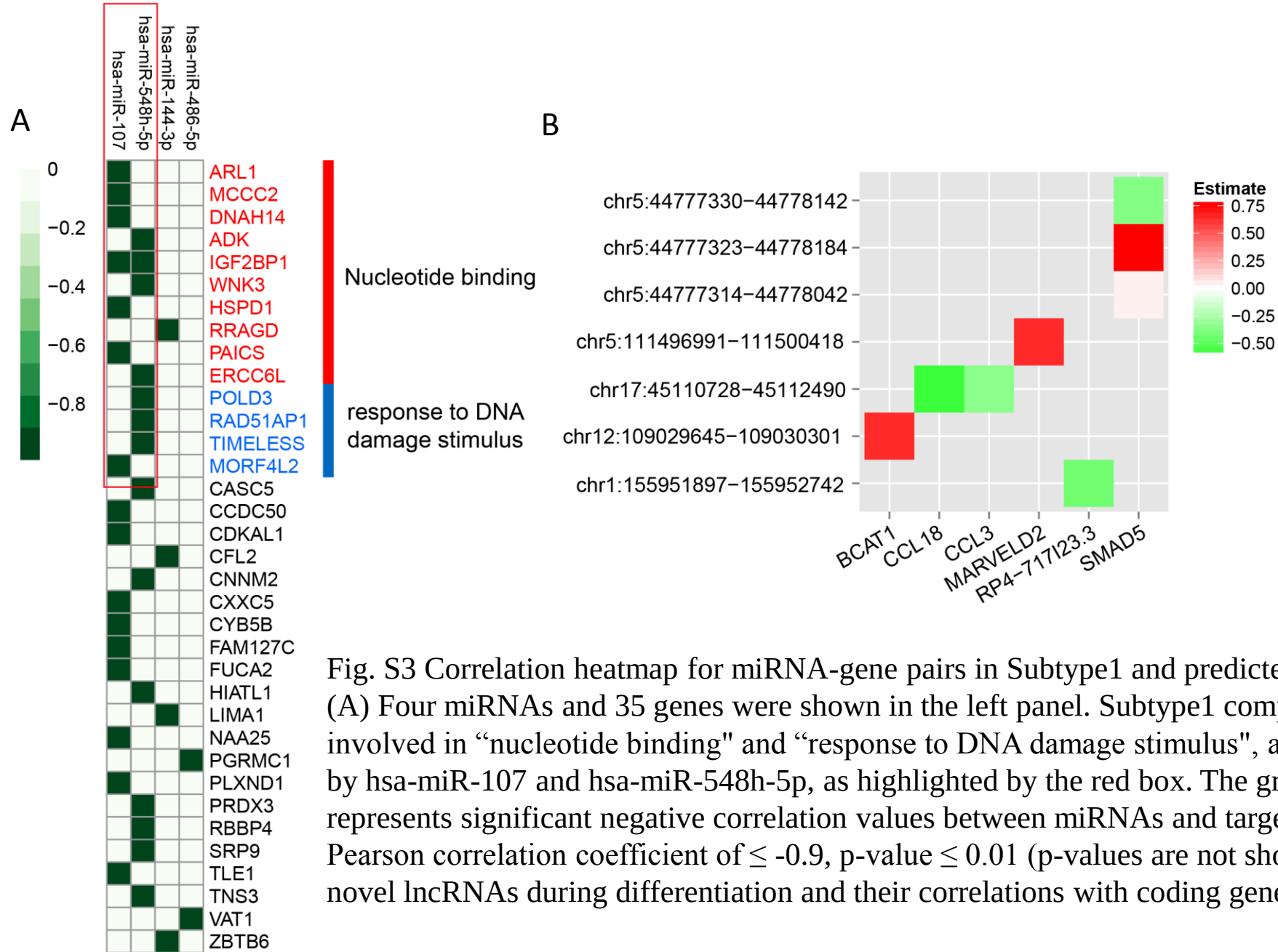


Fig. S3 Correlation heatmap for miRNA-gene pairs in Subtype1 and predicted novel lncRNAs. (A) Four miRNAs and 35 genes were shown in the left panel. Subtype1 comprised of 14 genes involved in “nucleotide binding” and “response to DNA damage stimulus”, and were regulated by hsa-miR-107 and hsa-miR-548h-5p, as highlighted by the red box. The green color bar represents significant negative correlation values between miRNAs and target genes with Pearson correlation coefficient of ≤ -0.9 , $p\text{-value} \leq 0.01$ ($p\text{-values}$ are not shown). (B) Predicted novel lncRNAs during differentiation and their correlations with coding genes.

Supplemental table S1. Primers of quantitative real-time PCR.

Gene	Primer (5'-3')
<i>GAPDH</i>	TGTTGCCATCAATGACCCCTT CTCCACGACGTACTCAGCG
<i>GATA-1</i>	CCAGACGACCACCACGACA TCCTTCGGCTGCTCCTGTG
<i>KLF1</i>	TTGCGGCAAGAGCTACACCA GTCAGAGCGCGAAAAAGCAC
<i>HBG</i>	CCCAG AGGTT CTTTG ACAGC TTCTC AGGAT CCACA TGCAG
<i>HBB</i>	TTGAG TCCTT TGGGG ATCTG AGCTC ACTCA GTGTG GCAAA
<i>PDCD4</i>	ACAGGTGTATGATGTGGAGGA TTCTCAAATGCCCTTTCATCCAA
<i>PDCD2</i>	ACCGCTGCATCTTCCTCTT TGCAGAGATGAGCACCAGAC
<i>STAT5B</i>	GAACAGAGGTTGGTCCGAGA CAAACGTCTGGTTGATCTGG
<i>ATHL1</i>	GTGAGCGGCGTGTACAATG CCAGGGTGTGAAGAAAGGAG
<i>RP11-326C3.2</i>	AGAGAAACCGGGGCTCAC GGTATCTCACGCTCCCTGAC

Supplemental table S2 miRNAs and target genes in 4 subtypes**Subtype1**

miRNA	Target gene	Expression correlation coefficient	P-value
hsa-miR-548h-5p	ADK	-0.955574007	0.002916662
hsa-miR-107	ARL1	-0.944501951	0.004534582
hsa-miR-548h-5p	CASC5	-0.95454159	0.003052731
hsa-miR-107	CCDC50	-0.933143267	0.006555315
hsa-miR-107	CDKAL1	-0.93416472	0.006358752
hsa-miR-144-3p	CFL2	-0.94061324	0.005185459
hsa-miR-548h-5p	CNNM2	-0.932598999	0.006661244
hsa-miR-107	CXXC5	-0.92525327	0.008171803
hsa-miR-107	CYB5B	-0.925691491	0.008077475
hsa-miR-107	DNAH14	-0.930466547	0.007084258
hsa-miR-548h-5p	ERCC6L	-0.937984007	0.005649719
hsa-miR-107	FAM127C	-0.946499702	0.004216856
hsa-miR-107	FUCA2	-0.927476144	0.007698837
hsa-miR-548h-5p	HIATL1	-0.980148335	0.000587221
hsa-miR-107	HSPD1	-0.964076466	0.001912571
hsa-miR-107	IGF2BP1	-0.962895707	0.002039552
hsa-miR-548h-5p	IGF2BP1	-0.97075323	0.001270552
hsa-miR-144-3p	LIMA1	-0.952037456	0.003395442
hsa-miR-107	MCCC2	-0.917952326	0.009821566
hsa-miR-107	MORF4L2	-0.984852719	0.000342422
hsa-miR-107	NAA25	-0.931913737	0.006795794
hsa-miR-107	PAICS	-0.95809405	0.002597367
hsa-miR-486-5p	PGRMC1	-0.934615301	0.006272973
hsa-miR-107	PLXND1	-0.935392629	0.006126329
hsa-miR-548h-5p	POLD3	-0.949076815	0.00382373
hsa-miR-548h-5p	PRDX3	-0.991542412	0.000106994
hsa-miR-548h-5p	RAD51AP1	-0.919064982	0.009560634
hsa-miR-548h-5p	RBBP4	-0.948320036	0.003937214
hsa-miR-144-3p	RRAGD	-0.925667336	0.008082661
hsa-miR-548h-5p	SRP9	-0.962701834	0.002060786
hsa-miR-548h-5p	TIMELESS	-0.933702692	0.0064473
hsa-miR-107	TLE1	-0.937903523	0.005664238
hsa-miR-548h-5p	TNS3	-0.936564107	0.005908532
hsa-miR-486-5p	VAT1	-0.962014311	0.002136964
hsa-miR-548h-5p	WNK3	-0.924182988	0.008404423
hsa-miR-144-3p	ZBTB6	-0.929915572	0.007195619

Subtype2

miRNA	Target gene	Expression correlation coefficient	P-value
hsa-miR-1254	ZNF862	-0.93732851	0.005768496
hsa-miR-20a-5p	ZNF862	-0.931177564	0.006941802
hsa-miR-324-3p	ZNF862	-0.934453577	0.006303696
hsa-miR-486-3p	ZNF862	-0.953999068	0.003125458
hsa-miR-503-5p	ZNF862	-0.938822524	0.005499541
hsa-miR-942-5p	ZNF862	-0.940326869	0.005235079

Subtype3

miRNA	Target gene	Expression correlation coefficient	P-value
hsa-miR-30a-5p	ACPL2	-0.925646884	0.008087052
hsa-miR-532-3p	ACSL6	-0.953123507	0.003244605
hsa-miR-502-3p	ACTN1	-0.950598294	0.00360051
hsa-miR-501-5p	AGXT2L2	-0.952616227	0.003314639
hsa-miR-501-5p	AKAP9	-0.932002629	0.006778266
hsa-miR-629-5p	AKAP9	-0.928676821	0.007449083
hsa-miR-532-3p	AKT1S1	-0.959928011	0.002376473
hsa-miR-532-3p	AKT2	-0.94854384	0.003903483

hsa-miR-532-3p	ALS2CL	-0.944343468	0.004560272
hsa-miR-532-3p	ALS2CR12	-0.942680939	0.004834052
hsa-miR-532-3p	ANK3	-0.928846131	0.007414188
hsa-miR-532-3p	ANKH	-0.955819601	0.002884743
hsa-miR-532-3p	ANKRD22	-0.950365872	0.003634182
hsa-miR-501-5p	AOAH	-0.956410172	0.002808698
hsa-miR-501-5p	ARHGEF3	-0.956244539	0.002829925
hsa-miR-502-3p	ARHGEF3	-0.942650402	0.004839154
hsa-miR-532-3p	ARHGEF4	-0.954065704	0.00311648
hsa-miR-532-3p	ARIH2	-0.952543413	0.003324752
hsa-miR-532-3p	ASAP3	-0.957035294	0.002729293
hsa-let-7e-5p	ATG9A	-0.91936193	0.009491573
hsa-miR-191-5p	ATG9A	-0.952988195	0.003263214
hsa-miR-330-5p	ATG9A	-0.93323632	0.006537288
hsa-miR-532-3p	ATHL1	-0.935602661	0.006086998
hsa-miR-30a-3p	ATP1B2	-0.926947419	0.00781009
hsa-miR-501-5p	ATP2A3	-0.931661856	0.00684558
hsa-miR-940	B4GALT4	-0.956762539	0.002763801
hsa-miR-532-3p	BCAM	-0.945953595	0.004302586
hsa-miR-501-5p	BCL9L	-0.939235555	0.005426296
hsa-miR-532-3p	BEST3	-0.946746073	0.004178458
hsa-miR-532-3p	BLCAP	-0.954592722	0.00304592
hsa-miR-532-3p	BNIP3L	-0.954281119	0.003087543
hsa-miR-502-3p	BTBD11	-0.944512075	0.004532944
hsa-miR-532-3p	BTN3A2	-0.954972167	0.002995612
hsa-miR-532-3p	BTNL3	-0.954294827	0.003085706
hsa-miR-532-3p	BTNL8	-0.947520379	0.004058899
hsa-miR-532-3p	CAPN10	-0.933559188	0.006474925
hsa-miR-532-3p	CASC3	-0.938496219	0.005557747
hsa-miR-532-3p	CCDC157	-0.946144171	0.004272572
hsa-miR-652-3p	CCDC57	-0.966559557	0.001658697
hsa-miR-532-3p	CCR7	-0.92360061	0.008532334
hsa-miR-532-3p	CD247	-0.919350998	0.009494111
hsa-miR-501-5p	CD300LB	-0.962321602	0.002102747
hsa-miR-501-5p	CD48	-0.955361113	0.002944471
hsa-miR-501-5p	CD55	-0.968266021	0.001494589
hsa-miR-502-5p	CD55	-0.91806474	0.009795049
hsa-miR-532-3p	CD6	-0.930948886	0.006987465
hsa-miR-502-3p	CDC42SE1	-0.922299473	0.008821504
hsa-miR-532-3p	CDKL1	-0.960437237	0.002316856
hsa-miR-532-3p	CDKN2D	-0.952997315	0.003261958
hsa-miR-532-3p	CISD2	-0.959553361	0.002420812
hsa-miR-532-3p	CNIH3	-0.956024524	0.002858243
hsa-miR-501-5p	COTL1	-0.958192587	0.002585253
hsa-miR-222-3p	CPEB4	-0.920833614	0.009152895
hsa-miR-26b-5p	CPEB4	-0.929894974	0.007199799
hsa-miR-30c-5p	CPEB4	-0.960128507	0.002352911
hsa-miR-30d-5p	CPEB4	-0.917310975	0.00997352
hsa-miR-374b-5p	CPEB4	-0.928661373	0.007452271
hsa-miR-548k	CPEB4	-0.934909968	0.006217184
hsa-miR-501-5p	CREB5	-0.955815921	0.00288522
hsa-miR-502-3p	CREB5	-0.950593186	0.003601248
hsa-miR-502-3p	CRISPLD2	-0.93520108	0.006162308
hsa-miR-22-3p	CSGALNACT1	-0.917778504	0.009862638
hsa-miR-30c-5p	CSGALNACT1	-0.919678547	0.009418205
hsa-miR-370-3p	CSGALNACT1	-0.940779533	0.005156751
hsa-miR-590-3p	CSGALNACT1	-0.938798829	0.005503758
hsa-miR-532-3p	CXCR2	-0.95014153	0.00366683
hsa-miR-501-5p	CYB561D1	-0.921364516	0.009032186

hsa-miR-501-5p	CYLD	-0.963574712	0.001966038
hsa-miR-502-3p	CYLD	-0.947204424	0.004107479
hsa-miR-532-3p	DCAF6	-0.943225322	0.004743543
hsa-let-7a-5p	DDI2	-0.933236407	0.006537271
hsa-miR-501-5p	DGKD	-0.933307198	0.006523572
hsa-miR-532-3p	DGKZ	-0.94491405	0.004468115
hsa-miR-501-5p	DIP2A	-0.963518579	0.001972065
hsa-miR-502-5p	DIP2A	-0.930882282	0.007000792
hsa-miR-501-5p	DISC1	-0.964700949	0.001847043
hsa-miR-502-3p	DISC1	-0.948964591	0.003840456
hsa-let-7c-5p	DNAJA4	-0.949145307	0.00381354
hsa-miR-222-3p	DNAJA4	-0.951097513	0.003528706
hsa-miR-532-3p	DNAJB2	-0.953120458	0.003245024
hsa-miR-532-3p	E2F2	-0.961074501	0.002243302
hsa-miR-501-5p	EDN1	-0.918482506	0.009696807
hsa-miR-501-5p	EIF4E3	-0.946323325	0.004244452
hsa-miR-502-3p	EIF4E3	-0.936058785	0.006002007
hsa-miR-532-3p	ELF3	-0.938535056	0.005550804
hsa-miR-502-3p	EMR1	-0.925472966	0.008124446
hsa-miR-532-3p	EPB49	-0.953273235	0.003224074
hsa-miR-532-3p	EPHA1	-0.947237527	0.004102376
hsa-miR-532-3p	FAM167B	-0.954612563	0.00304328
hsa-miR-501-5p	FAM190B	-0.952101877	0.003386401
hsa-miR-29b-3p	FAM65C	-0.95204882	0.003393846
hsa-miR-330-5p	FAM65C	-0.954558405	0.003050491
hsa-miR-31-5p	FBXO18	-0.920588102	0.009208979
hsa-miR-532-3p	FBXO9	-0.956342401	0.002817374
hsa-miR-532-3p	FIS1	-0.962382649	0.002095982
hsa-miR-502-3p	FMNL1	-0.943409204	0.004713161
hsa-miR-532-3p	FOXO4	-0.954558112	0.00305053
hsa-miR-532-3p	FRMD4A	-0.949759108	0.003722813
hsa-miR-331-5p	GABARAPL1	-0.92076182	0.009169278
hsa-miR-30c-5p	GCLC	-0.918923249	0.009593683
hsa-miR-30e-5p	GCLC	-0.921429576	0.009017448
hsa-miR-532-3p	GDAP1L1	-0.954294827	0.003085706
hsa-miR-652-3p	GLT1D1	-0.923146843	0.008632649
hsa-miR-532-3p	GLYCTK	-0.961898016	0.002149984
hsa-miR-532-3p	GNAS	-0.949737315	0.003726016
hsa-miR-652-3p	GNAS	-0.91796709	0.009818081
hsa-miR-940	GPCPD1	-0.979452563	0.000628958
hsa-let-7e-5p	GYPB	-0.922815912	0.008706168
hsa-miR-532-3p	GYPC	-0.958477095	0.002550432
hsa-miR-532-3p	GZMM	-0.917738892	0.009872009
hsa-miR-532-3p	HDGF	-0.966380191	0.001676437
hsa-miR-501-5p	HEXIM1	-0.950733111	0.003581049
hsa-miR-532-3p	HNF4A	-0.959718789	0.002401184
hsa-let-7f-5p	IFT80	-0.945459434	0.00438089
hsa-miR-106a-5p	IFT80	-0.960883251	0.002265253
hsa-miR-433-3p	IFT80	-0.920234911	0.009289953
hsa-miR-532-3p	IGF2BP2	-0.944748824	0.004494706
hsa-miR-940	IL1R1	-0.947699059	0.004031551
hsa-miR-532-3p	IL34	-0.953491036	0.003194324
hsa-miR-532-3p	INPP5K	-0.957403734	0.002683019
hsa-miR-532-3p	ISG20	-0.95788538	0.002623114
hsa-miR-532-3p	ITIH3	-0.949095278	0.003820982
hsa-miR-532-3p	JHDM1D	-0.938225427	0.005606278
hsa-miR-501-5p	KBTBD11	-0.95562456	0.002910078
hsa-miR-502-3p	KBTBD11	-0.955138961	0.002973628
hsa-miR-532-3p	KCNIP2	-0.963261401	0.001999793

hsa-miR-532-3p	KIAA1324	-0.952792896	0.003290165
hsa-miR-532-3p	KIAA1539	-0.953588576	0.003181045
hsa-let-7d-5p	KLHL24	-0.949905951	0.003701267
hsa-miR-186-5p	KLHL24	-0.944752	0.004494194
hsa-miR-26b-5p	KLHL24	-0.932779308	0.00662606
hsa-miR-30d-5p	KLHL24	-0.967139705	0.001601957
hsa-miR-339-5p	KLHL24	-0.93210626	0.00675786
hsa-miR-342-5p	KLHL24	-0.927568802	0.007679421
hsa-miR-374a-5p	KLHL24	-0.93058234	0.007060962
hsa-miR-5480-3p	KLHL24	-0.924934421	0.00824077
hsa-miR-641	KLHL24	-0.949693184	0.003732506
hsa-miR-532-3p	KLHL3	-0.930820912	0.007013082
hsa-miR-501-5p	KLHL6	-0.939413083	0.005394961
hsa-miR-502-3p	LAIR1	-0.9342553	0.006341462
hsa-miR-1247-5p	LBH	-0.937599994	0.005719156
hsa-miR-143-3p	LBH	-0.934300196	0.006332901
hsa-miR-28-5p	LBH	-0.923274273	0.00860442
hsa-miR-31-5p	LBH	-0.96690345	0.001624946
hsa-miR-532-3p	LENG8	-0.945078776	0.004441681
hsa-miR-532-3p	LILRA6	-0.945429133	0.004385714
hsa-miR-652-3p	LILRA6	-0.93153577	0.006870568
hsa-miR-532-3p	LILRB3	-0.938831097	0.005498016
hsa-miR-532-3p	LIMS2	-0.928538362	0.00747768
hsa-miR-501-5p	LRRK2	-0.963518052	0.001972121
hsa-miR-652-3p	LSP1	-0.919135124	0.009544299
hsa-miR-532-3p	MAF1	-0.962332408	0.002101549
hsa-miR-532-3p	MAP2K3	-0.957930479	0.002617539
hsa-miR-532-3p	MAP2K7	-0.955794574	0.002887988
hsa-miR-502-5p	MAP3K2	-0.972001723	0.001164881
hsa-miR-502-3p	MBP	-0.920995282	0.009116055
hsa-miR-532-3p	MEOX1	-0.951492519	0.003472395
hsa-miR-532-3p	MGAM	-0.946117645	0.004276744
hsa-miR-501-5p	MGAT4A	-0.922227909	0.008837545
hsa-miR-940	MIB2	-0.923316211	0.008595139
hsa-miR-532-3p	MICAL2	-0.949768546	0.003721427
hsa-miR-532-3p	MKRN1	-0.953660953	0.003171209
hsa-miR-532-3p	MRC2	-0.920733899	0.009175653
hsa-miR-532-3p	MRVI1	-0.947480558	0.004065006
hsa-miR-29b-3p	MST1	-0.923928086	0.008460292
hsa-miR-532-3p	MTUS1	-0.945442039	0.004383659
hsa-miR-532-3p	MUTYH	-0.923344685	0.008588841
hsa-miR-532-3p	MXD4	-0.95545033	0.002932801
hsa-miR-501-5p	NBPF14	-0.961834022	0.002157166
hsa-miR-501-5p	NCALD	-0.952653485	0.003309471
hsa-miR-501-5p	NCOA3	-0.938787255	0.005505818
hsa-miR-22-3p	NEDD4L	-0.928659647	0.007452628
hsa-miR-30e-5p	NEDD4L	-0.93664532	0.005893576
hsa-miR-501-5p	NFKB2	-0.95446408	0.00306307
hsa-miR-652-3p	NIN	-0.917664118	0.009889711
hsa-miR-532-3p	NLRC5	-0.917833459	0.009849644
hsa-miR-532-3p	NLRP12	-0.937594637	0.005720127
hsa-miR-532-3p	OPTN	-0.954606832	0.003044042
hsa-let-7e-5p	PAQR9	-0.946741496	0.004179169
hsa-miR-191-5p	PAQR9	-0.93540627	0.006123771
hsa-miR-330-5p	PAQR9	-0.938878051	0.005489666
hsa-miR-532-3p	PARP10	-0.934589713	0.006277829
hsa-miR-502-3p	PARVG	-0.958947699	0.002493345
hsa-miR-532-3p	PCGF5	-0.954128598	0.003108017
hsa-miR-501-5p	PDCD1	-0.948228359	0.003951072

hsa-miR-532-3p	PDE2A	-0.931462896	0.006885031
hsa-miR-501-5p	PDE4D	-0.930590362	0.007059349
hsa-miR-532-3p	PDE7B	-0.94531514	0.004403885
hsa-miR-532-3p	PDZD4	-0.952196002	0.003373212
hsa-miR-501-5p	PHC3	-0.956867715	0.00275047
hsa-miR-501-5p	PHF21A	-0.957429702	0.002679772
hsa-miR-502-5p	PHF21A	-0.969866162	0.001348391
hsa-miR-532-3p	PHOSPHO1	-0.955899018	0.002874459
hsa-miR-106a-5p	PIK3R2	-0.920381306	0.009256348
hsa-miR-30c-5p	PIK3R2	-0.944012166	0.004614206
hsa-miR-501-5p	PIK3R5	-0.954364966	0.003076316
hsa-miR-532-3p	PIM1	-0.948595248	0.003895756
hsa-miR-532-3p	PIP5KL1	-0.951782722	0.003431309
hsa-miR-532-3p	PLXDC1	-0.945127872	0.004433817
hsa-miR-501-5p	PLXNB1	-0.944153262	0.004591198
hsa-miR-532-3p	POC1B	-0.931090948	0.00695908
hsa-miR-532-3p	POLL	-0.959601983	0.002415035
hsa-miR-502-3p	POU2AF1	-0.949289769	0.00379209
hsa-miR-501-5p	PPM1M	-0.943251322	0.004739242
hsa-miR-532-3p	PPP1R9B	-0.933169827	0.006550167
hsa-miR-532-3p	PQLC1	-0.932829734	0.006616236
hsa-miR-501-5p	PRKAG2	-0.948653861	0.003886954
hsa-miR-532-3p	PSMF1	-0.960128528	0.002352909
hsa-miR-652-3p	PTCH1	-0.918618138	0.009665015
hsa-miR-532-3p	PTPRK	-0.928099061	0.007568763
hsa-miR-532-3p	PXN	-0.919625879	0.009430391
hsa-miR-532-3p	RAB2B	-0.944043361	0.004609114
hsa-miR-532-3p	RALBP1	-0.953249859	0.003227276
hsa-let-7e-5p	RAP1GAP	-0.937794343	0.005683962
hsa-miR-501-5p	RASSF5	-0.921969664	0.008895547
hsa-miR-501-5p	RBM47	-0.924407449	0.008355374
hsa-miR-22-3p	RHBDD1	-0.945843663	0.004319945
hsa-miR-374b-5p	RHBDD1	-0.917457255	0.009938763
hsa-miR-532-3p	RHPN1	-0.942225094	0.004910485
hsa-miR-532-3p	RNF123	-0.96479823	0.001836937
hsa-miR-532-3p	RNF14	-0.956258091	0.002828185
hsa-miR-532-3p	RPIA	-0.958943864	0.002493807
hsa-miR-652-3p	RPIA	-0.918444012	0.009705839
hsa-miR-532-3p	SBK1	-0.93144437	0.00688871
hsa-miR-532-3p	SCML4	-0.934614416	0.006273141
hsa-miR-330-5p	SEC14L4	-0.928230456	0.007541463
hsa-miR-501-5p	SEMA6A	-0.976698717	0.000808099
hsa-miR-501-5p	SEPT6	-0.930950549	0.006987132
hsa-miR-502-3p	SEPT9	-0.924687806	0.008294307
hsa-miR-532-3p	SFN	-0.937443915	0.005747496
hsa-miR-501-5p	SH3BP2	-0.931663037	0.006845346
hsa-miR-532-3p	SH3GLB2	-0.95364586	0.003173259
hsa-miR-652-3p	SIRPG	-0.920899211	0.009137938
hsa-miR-652-3p	SIT1	-0.917565854	0.009912997
hsa-miR-532-3p	SLC11A1	-0.929136228	0.007354584
hsa-miR-532-3p	SLC14A1	-0.957028219	0.002730186
hsa-miR-532-3p	SLC25A45	-0.95713277	0.002717013
hsa-miR-532-3p	SLC2A1	-0.934180751	0.00635569
hsa-miR-331-5p	SLC37A3	-0.929536023	0.007272825
hsa-miR-532-3p	SLC38A5	-0.934855832	0.006227416
hsa-miR-532-3p	SLC39A13	-0.921343352	0.009036983
hsa-miR-532-3p	SMPD1	-0.917687819	0.009884098
hsa-miR-532-3p	SORBS3	-0.918963594	0.00958427
hsa-miR-501-5p	SOX4	-0.938721304	0.005517565

hsa-miR-532-3p	SPEG	-0.94160231	0.005015859
hsa-miR-532-3p	SPSB3	-0.956479709	0.002799809
hsa-miR-133a-3p	SPTB	-0.925166793	0.00819048
hsa-miR-193a-5p	SPTB	-0.930486928	0.007080155
hsa-miR-502-3p	SPTBN1	-0.937793771	0.005684065
hsa-miR-532-3p	SRXN1	-0.957700643	0.002646012
hsa-miR-502-3p	SSH2	-0.919328763	0.009499275
hsa-miR-532-3p	ST3GAL1	-0.924885649	0.008251345
hsa-miR-532-3p	STOM	-0.921331035	0.009039776
hsa-miR-532-3p	STRADB	-0.95422949	0.003094466
hsa-miR-532-3p	TAL1	-0.930028509	0.007172724
hsa-miR-652-3p	TC2N	-0.919924335	0.009361441
hsa-miR-532-3p	TCEA3	-0.944013304	0.00461402
hsa-miR-532-3p	TECPR1	-0.931443666	0.00688885
hsa-miR-191-5p	TFDP1	-0.938335681	0.005586493
hsa-miR-532-3p	THEM5	-0.954033784	0.003120779
hsa-miR-501-5p	TLE4	-0.948192582	0.003956487
hsa-miR-532-3p	TLR10	-0.95326101	0.003225748
hsa-miR-532-3p	TMC5	-0.963546277	0.00196909
hsa-miR-532-3p	TMCC2	-0.95418643	0.003100246
hsa-miR-532-3p	TMEM63B	-0.960322121	0.002330268
hsa-miR-502-3p	TMPRSS13	-0.941393014	0.005051517
hsa-miR-501-5p	TNFAIP2	-0.929585622	0.007262713
hsa-miR-502-3p	TNFSF14	-0.929444783	0.007291445
hsa-miR-532-3p	TNIP1	-0.943326898	0.004726748
hsa-miR-532-3p	TNS1	-0.947191258	0.004109509
hsa-miR-502-5p	TOB1	-0.933297384	0.006525471
hsa-miR-532-3p	TOLLIP	-0.924064262	0.008430423
hsa-miR-532-3p	TOX2	-0.918090099	0.009789072
hsa-miR-532-3p	TRAF3IP3	-0.934354205	0.00632261
hsa-miR-532-3p	TRAK2	-0.943688303	0.004667228
hsa-miR-652-3p	TREML3	-0.918016125	0.009806512
hsa-miR-532-3p	TRIM31	-0.960528069	0.002306301
hsa-miR-195-5p	TRMU	-0.921611807	0.008976227
hsa-miR-490-3p	TRMU	-0.919362947	0.009491337
hsa-miR-532-3p	TSSC4	-0.925343185	0.008152405
hsa-miR-532-3p	TTN	-0.942113005	0.004929369
hsa-miR-940	TUBA4A	-0.940672385	0.005175239
hsa-miR-532-3p	UBE2B	-0.941970759	0.004953386
hsa-miR-532-3p	UBE2H	-0.945182505	0.004425074
hsa-miR-502-3p	UBL3	-0.946662303	0.004191494
hsa-miR-532-3p	UBL7	-0.963203954	0.002006014
hsa-miR-940	UNKL	-0.921907267	0.008909589
hsa-miR-191-5p	UQCR11	-0.92478584	0.008273005
hsa-miR-532-3p	UQCR11	-0.960728911	0.002283045
hsa-miR-501-5p	VAV1	-0.948914914	0.003847871
hsa-miR-532-3p	VIPR1	-0.923652761	0.008520841
hsa-miR-532-3p	VNN3	-0.940947389	0.005127852
hsa-miR-532-3p	VSIG1	-0.920819981	0.009156005
hsa-miR-532-3p	VTI1B	-0.955835227	0.002882718
hsa-miR-532-3p	WDR26	-0.935575515	0.006092074
hsa-miR-532-3p	WDR45	-0.965683352	0.001746242
hsa-miR-197-3p	WDR90	-0.922950744	0.008676177
hsa-miR-27a-3p	WDR90	-0.937032679	0.005822496
hsa-miR-27b-3p	WDR90	-0.920774168	0.009166459
hsa-miR-30b-5p	WDR90	-0.922336648	0.008813177
hsa-miR-365a-3p	WDR90	-0.963549511	0.001968742
hsa-miR-532-3p	WNK2	-0.962205406	0.002115653
hsa-miR-532-3p	XPO7	-0.952013335	0.00339883

hsa-miR-1291	XRN1	-0.920058527	0.00933052
hsa-miR-26b-5p	XRN1	-0.921665639	0.008964068
hsa-miR-548k	XRN1	-0.944853253	0.00447789
hsa-miR-532-3p	YOD1	-0.945565559	0.004364015
hsa-miR-502-3p	YPEL5	-0.932688022	0.006643862
hsa-miR-30d-5p	ZNF451	-0.924247859	0.008390233

Subtype4

miRNA	Target_gene	Expression_correlation_coefficient	P-value
hsa-miR-19a-3p	TET3	-0.925334989	0.008154172

Supplemental table S3 60 stage-specific lncRNAs expressed in all samples

LncRNA	HSC	P2	P3	P4	P5	RBC
AC024028.1	10.9912	0.53184	0.0698757	0	0	2.98448
RP11-498J9.2	35.7365	0	0	0	0	0
RP11-34P13.14	21.3909	5.53902	1.02969	1.40315	3.0953	3.04626
RP11-93O14.2	15.525	1.93736	1.53579	0.308582	2.9496	0
RP11-485G7.6	13.1561	0.915193	3.10596	3.24845	3.14445	0.502726
RP11-473M20.11	17.5586	0	0	0	0	7.26392
RP11-118G23.2	20.3032	15.9421	4.50469	3.96834	14.5848	0
RP11-78A19.3	14.4509	5.11508	5.05981	4.60578	6.50385	4.57715
LLNLR-284B4.1	13.0902	5.99592	10.3932	9.11205	5.3709	11.7791
RP11-680G24.6	18.1609	9.63065	3.23537	4.59392	9.27525	1.90534
LA16c-359F1.1	12.7873	3.46959	1.3883	2.69887	5.9484	0
Z69720.3	10.7596	1.68556	0	0.993933	0	0
RP5-1033H22.2	0.378769	17.8791	0.129485	0.299696	0.333942	0
RP4-784A16.3	6.38521	18.9798	5.75182	0	14.8873	0
RP3-339A18.6	16.8667	26.747	8.14619	1.20555	4.87238	0
RP11-21J18.1	0.969611	10.6269	0.756509	2.1507	4.37773	1.58204
RP11-298J23.8	0	37.9078	0	3.8609	0	0
RP11-165D6.1	0	12.232	0	0	1.28229	0
CTD-2621I17.8	0	15.9013	3.19201	5.7986	8.0669	6.03172
UBE2Q1-AS1	4.97188	9.85256	20.3071	11.3373	16.4847	12.2123
CCDC144NL-AS1	6.91596	8.91426	11.1539	9.27615	7.23396	2.22057
CTD-2531D15.5	9.00503	16.8792	21.6932	15.698	10.9915	6.48387
RP11-770G2.2	14.0549	39.3647	105.494	52.6486	29.0088	7.09725
RP11-156P1.3	10.6661	12.5221	17.1068	5.50601	8.02298	1.53588
CTB-31O20.6	9.25363	6.915	16.3046	10.6913	8.56057	2.32583
CTA-315H11.2	26.9075	29.6253	37.8577	32.5352	32.0385	5.89751
AC005943.6	41.7488	113.372	326.078	130.691	128.47	109.189
RP3-337H4.8	1.22652	2.32468	6.94496	14.0911	8.92553	4.56637
RP11-767C1.1	42.8726	19.2543	46.0326	250.87	32.909	135.801
MIR210HG	2.95168	0.416364	3.05185	10.3587	6.94493	0.505732
CTD-2139B15.2	44.153	59.9987	135.871	153.329	115.778	37.312
CTC-1337H24.3	3.08843	0.759006	8.25266	15.9912	2.55967	11.3326
RP11-77G23.2	14.1007	47.483	19.4455	13.1663	53.8939	0
CTD-2541M15.3	1.87869	8.00958	8.31398	5.08647	14.1619	0.32064
RP11-91K8.5	1.05361	2.67867	12.541	20.2647	22.7983	0
RP11-66D17.5	4.35192	14.2513	30.0155	37.7355	15.884	109.408
RP11-126K1.8	0	0	0.479118	4.30249	2.12301	18.4306
RP3-438O4.4	0	2.84876	3.932	2.39212	2.35692	30.2279
NUP50-AS1	0.52282	0.500439	1.82567	2.53137	1.0587	11.7705
PSMD5-AS1	23.012	7.97867	8.60094	21.9124	10.2088	99.9958
BX322559.3	0	12.1178	8.29569	6.74573	0	14.6196
TOPORS-AS1	1.99579	1.49154	5.79776	1.73647	2.17197	21.9209
AC087294.2	1.2853	1.06445	4.12886	6.25165	2.93323	103.875
AP001062.8	0.250976	0.405936	1.20691	2.23756	1.13127	14.2267
RP11-455F5.3	6.71252	1.22351	3.44535	11.3202	6.1942	177.767
RP11-326C3.2	5.85939	0	0.018547	0	0.0308088	38.6247
AP006621.8	2.64803	0.705897	0.583485	2.04699	1.03978	12.4202
JHDM1D-AS1	0.110988	0.0568199	0.0724725	0.173526	0.114424	79.105
RP11-20I23.6	13.7627	7.63168	12.6396	10.2439	7.03784	90.53
RP11-160E2.19	8.70135	2.58268	2.99233	2.75933	1.43114	21.6056
AC005786.7	1.94496	1.2765	3.53208	2.38595	1.18243	18.3132
AC005944.2	8.08168	3.13347	6.36747	11.7337	2.59976	36.7312
CTB-191K22.5	0.9787	1.48483	3.10882	5.57836	1.84703	20.9937
RMRP	0	6.94479	0.857064	6.27104	16.2169	24.678
RP11-20I23.8	0.489882	0.219526	0.333933	0.4684	0.226513	13.429
CDC37L1-AS1	0.513912	5.11204	4.81678	3.13268	2.47933	45.1652
LL21NC02-21A1.1	4.39527	6.5635	7.57553	9.99764	5.88571	13.4144
RP5-1142A6.10	1.93524	0.115651	2.07644	0.943984	0.0191478	13.7945
RP11-556I13.1	0	0	0	0	0	12.9267
AC011558.5	92.4716	28.2585	42.1064	19.623	15.1108	133.031

Supplemental table S4 Identified lncRNAs-gene interactions

LncRNA	Gene	Expression_correlation_coefficient	P-value
RP11-767C1.1	BTF3P9	0.888211742	0.018046435
RP11-767C1.1	HIST1H4PS1	0.888211742	0.018046435
RP11-770G2.2	MLLT10P1	0.846609061	0.03348862
CTD-2139B15.2	MLLT10P1	0.820840274	0.045271958
CTD-2139B15.2	SAA1	0.830335292	0.040737176
CTB-31O20.6	CD209	0.839513752	0.036567025
CTB-31O20.6	TREM2	0.844823958	0.034251117
AC005943.6	TREM2	0.872920892	0.023197543
RP11-767C1.1	C8orf30B	0.843559821	0.034795973
RP5-1033H22.2	SYCP1	0.841672866	0.035616791
RP4-784A16.3	SYCP1	0.859359261	0.028278802
RP11-21J18.1	SYCP1	0.857215199	0.029125736
RP11-298J23.8	SYCP1	0.819967539	0.045699952
RP11-165D6.1	SYCP1	0.869363868	0.024483994
RP3-337H4.8	PITX1	0.875217612	0.022384495
RP11-767C1.1	PITX1	0.844397188	0.034434607
MIR210HG	PITX1	0.857093758	0.029174061
RP11-91K8.5	DMGDH	0.829655504	0.041054407
LLNLR-284B4.1	CALB1	-0.849608179	0.032225791
RP5-1033H22.2	CALB1	0.882865959	0.019777013
RP4-784A16.3	CALB1	0.890878329	0.017211623
RP11-298J23.8	CALB1	0.873615461	0.022950204
CTD-2621I17.8	CALB1	0.911940411	0.011290308
RP11-77G23.2	CALB1	0.846590506	0.033496503
LLNLR-284B4.1	TTY15	-0.876219611	0.022034121
RP5-1033H22.2	TTY15	0.830700546	0.040567201
RP11-298J23.8	TTY15	0.812736096	0.049318191
RP11-165D6.1	TTY15	0.879753267	0.020819575
CTD-2621I17.8	TTY15	0.893636825	0.016368038
RP11-77G23.2	TTY15	0.89727756	0.015285891
RP11-770G2.2	FXD3	0.913184063	0.010978344
CTB-31O20.6	FXD3	0.850834518	0.03171602
AC005943.6	FXD3	0.842629935	0.035199345
CTD-2139B15.2	FXD3	0.89779492	0.015135007
CTD-2139B15.2	A4GALT	0.958479624	0.002550123
LLNLR-284B4.1	SOX21	-0.899088826	0.014760805
RP4-784A16.3	SOX21	0.847241318	0.033220494
RP11-77G23.2	SOX21	0.896590944	0.01548725
CTD-2541M15.3	SOX21	0.84244843	0.035278334
RP11-34P13.14	FAM184A	-0.859496348	0.028225054
Z69720.3	FAM184A	-0.837815108	0.037322858
CTA-315H11.2	AAK1	-0.964761713	0.001840727
LLNLR-284B4.1	ZFY	-0.895343198	0.015856414
RP11-66D17.5	AAK1	0.933190005	0.006546257
RP11-21J18.1	ZFY	0.907485657	0.012442445
RP11-165D6.1	ZFY	0.8413663	0.035750995
CTD-2621I17.8	ZFY	0.862724415	0.026973428
RP11-77G23.2	ZFY	0.913383441	0.010928725
RP11-770G2.2	CCL13	0.84075024	0.036021404
CTD-2139B15.2	CCL13	0.841117048	0.035860285
RP3-337H4.8	DHRS2	0.871002693	0.023887181
MIR210HG	DHRS2	0.875504552	0.02228389
CTD-2139B15.2	DHRS2	0.856933294	0.029237973
RP11-126K1.8	AAK1	0.964478496	0.001870256
RP3-438O4.4	AAK1	0.981934707	0.000486584
RP4-784A16.3	WSCD2	0.83736696	0.037523477
NUP50-AS1	AAK1	0.973966523	0.001007791
PSMD5-AS1	AAK1	0.990589967	0.000132406
TOPORS-AS1	AAK1	0.968022199	0.00151752
CTD-2621I17.8	WSCD2	0.908010509	0.012303889
AC087294.2	AAK1	0.99372283	5.90E-05

AP001062.8	AAK1	0.983104513	0.000425775
CTD-2541M15.3	RAG2	0.878287818	0.02131927
RP11-455F5.3	AAK1	0.996068349	2.32E-05
AC011558.5	RAG2	-0.81616822	0.047584968
RP11-326C3.2	AAK1	0.995908413	2.51E-05
AP006621.8	AAK1	0.993009116	7.31E-05
JHDM1D-AS1	AAK1	0.996386676	1.96E-05
RP4-784A16.3	CYorf15B	0.870298266	0.024142854
RP11-21J18.1	CYorf15B	0.906433673	0.012722416
CTD-2621I17.8	CYorf15B	0.87759772	0.021556542
RP11-77G23.2	CYorf15B	0.912580982	0.011129095
RP11-20I23.6	AAK1	0.996551673	1.78E-05
RP11-160E2.19	AAK1	0.96521062	0.001794399
AC005786.7	AAK1	0.986152019	0.000286322
CTD-2139B15.2	APLNR	0.844708117	0.034300877
AC005944.2	AAK1	0.97115669	0.001235907
RP3-337H4.8	GYG2P1	0.834048416	0.039024745
MIR210HG	GYG2P1	0.867821849	0.025051949
RP11-91K8.5	GYG2P1	0.909981368	0.011790305
RP3-337H4.8	FABP6	0.874875522	0.02250472
MIR210HG	FABP6	0.876845567	0.021816579
CTD-2139B15.2	FABP6	0.869861011	0.024302208
CTB-191K22.5	AAK1	0.96831078	0.001490399
LLNLR-284B4.1	CYorf15A	-0.914138397	0.010741827
RP4-784A16.3	CYorf15A	0.865091192	0.026072883
RP11-20I23.8	AAK1	0.997353944	1.05E-05
RP11-165D6.1	CYorf15A	0.847669735	0.03303939
CTD-2621I17.8	CYorf15A	0.886836793	0.018484288
RP11-77G23.2	CYorf15A	0.88139805	0.020265481
RP11-473M20.11	EPN3	-0.861748444	0.027349004
LLNLR-284B4.1	EPN3	-0.886721153	0.018521343
RP11-160E2.19	EPN3	-0.826380471	0.04259884
CDC37L1-AS1	AAK1	0.986541456	0.00027048
RP5-1142A6.10	AAK1	0.987420861	0.000236357
UBE2Q1-AS1	C1orf141	0.877561879	0.0215689
RP11-556I13.1	AAK1	0.996368901	1.98E-05
RP3-337H4.8	AARS	0.920544669	0.009218918
CTD-2139B15.2	AARS	0.922200704	0.008843647
AC011558.5	ROR2	-0.870851531	0.023941936
CTD-2139B15.2	TIMM8AP1	0.838108557	0.037191765
MIR210HG	NMU	0.885897826	0.018786194
CTD-2139B15.2	NMU	0.82450342	0.043496011
RP11-473M20.11	SLC25A21	-0.826498994	0.042542483
LLNLR-284B4.1	SLC25A21	-0.909570139	0.011896592
CTD-2541M15.3	SLC25A21	0.915763191	0.010344894
CTD-2139B15.2	AZGP1	0.887292549	0.018338595
LLNLR-284B4.1	DDX3Y	-0.89414553	0.016214695
RP5-1033H22.2	DDX3Y	0.817623265	0.046858869
RP11-165D6.1	DDX3Y	0.86690716	0.025391773
CTD-2621I17.8	DDX3Y	0.889200785	0.017734588
RP11-77G23.2	DDX3Y	0.905407441	0.012998433
AC011558.5	FTH1P15	-0.81974772	0.045808049
RP11-473M20.11	EIF1AY	-0.83640599	0.037955367
LLNLR-284B4.1	EIF1AY	-0.818073386	0.0466353
RP11-91K8.5	EIF1AY	0.867944664	0.025006487
MIR210HG	TNNT2	0.835254736	0.038475827
CCDC144NL-AS1	RNU4-2	-0.866186556	0.025661022
CTA-315H11.2	RNU4-2	-0.90014391	0.014459014
RP11-66D17.5	RNU4-2	0.879752672	0.020819777
NUP50-AS1	RNU4-2	0.91584933	0.010324053
PSMD5-AS1	RNU4-2	0.896010184	0.015658556
AP006621.8	RNU4-2	0.905464341	0.012983054
RP11-160E2.19	RNU4-2	0.838069778	0.037209077

AC005944.2	RNU4-2	0.850080576	0.032028968
CTB-191K22.5	RNU4-2	0.90416759	0.013335721
RMRP	RNU4-2	0.913447653	0.010912768
RP5-1142A6.10	RNU4-2	0.901101945	0.014187586
CTD-2531D15.5	EMP2	0.864396273	0.02633579
RP11-21J18.1	TRIM29	0.912753675	0.011085826
CTD-2621I17.8	TRIM29	0.858949351	0.028439807
RP4-784A16.3	TEAD1	0.877605081	0.021554005
RP11-21J18.1	TEAD1	0.831079309	0.040391291
CTD-2541M15.3	TEAD1	0.837181507	0.037606645
RP11-21J18.1	KDM5D	0.821246619	0.045073324
CTD-2621I17.8	KDM5D	0.821528794	0.044935627
RP11-77G23.2	KDM5D	0.86598323	0.025737238
AC011558.5	KDM5D	-0.849444808	0.032293992
RP3-337H4.8	KLF15	0.832945022	0.039530016
MIR210HG	KLF15	0.840458089	0.036149972
CTD-2139B15.2	KLF15	0.832163747	0.039889621
RP5-1033H22.2	MARVELD2	0.875391102	0.022323641
RP11-21J18.1	MARVELD2	0.902680863	0.013745666
RP11-298J23.8	MARVELD2	0.875546422	0.022269228
RP11-165D6.1	MARVELD2	0.897387384	0.015253801
CTD-2621I17.8	MARVELD2	0.863330929	0.02674127
CTB-31O20.6	HS3ST2	0.850834379	0.031716078
AC005943.6	HS3ST2	0.892800145	0.016621753
RP4-784A16.3	TRIM67	0.822549012	0.044439416
CTD-2621I17.8	TRIM67	0.899721315	0.01457953
RP5-1033H22.2	CHN1	0.838995938	0.036796663
RP11-21J18.1	CHN1	0.825476723	0.043029714
RP11-298J23.8	CHN1	0.833166967	0.039428137
RP11-165D6.1	CHN1	0.85409493	0.030379399
RP4-784A16.3	MIPOL1	0.913860919	0.010810338
RP11-21J18.1	MIPOL1	0.901095197	0.014189489
CTD-2621I17.8	MIPOL1	0.854272159	0.030307523
RP3-339A18.6	LIPH	0.814877307	0.048233502
CTD-2621I17.8	LIPH	0.860202535	0.027948943
RP11-473M20.11	WNK3	-0.866251291	0.025636779
LLNLR-284B4.1	WNK3	-0.879926442	0.020760899
CTD-2541M15.3	WNK3	0.886101018	0.018720663
RP11-160E2.19	WNK3	-0.839465702	0.036588306
RP5-1033H22.2	PCSK9	0.887293404	0.018338322
RP11-21J18.1	PCSK9	0.879755964	0.02081866
RP11-298J23.8	PCSK9	0.888442709	0.017973377
RP11-165D6.1	PCSK9	0.900232453	0.014433824
CTD-2621I17.8	PCSK9	0.842015345	0.035467145
RP3-337H4.8	ZNF788	0.912297709	0.011200248
MIR210HG	ZNF788	0.884908835	0.019106717
CTD-2621I17.8	NEO1	0.857774663	0.028903599
CTB-31O20.6	SIGLEC1	0.851787811	0.031322402
AC005943.6	SIGLEC1	0.888080597	0.018087981
RP11-77G23.2	SH3TC2	0.869107366	0.024578039
AC011558.5	SH3TC2	-0.888751411	0.017875953
RP5-1033H22.2	ESRRG	0.912922197	0.01104368
RP4-784A16.3	ESRRG	0.893927259	0.016280405
RP11-298J23.8	ESRRG	0.899336389	0.014689724
CTD-2621I17.8	ESRRG	0.906520346	0.012699235
RP11-77G23.2	ESRRG	0.817642115	0.046849496
RP3-337H4.8	SH2D6	0.915207597	0.010479809
RP11-767C1.1	ADAM32	0.882465288	0.019909777
CCDC144NL-AS1	PPP1R1B	0.833605257	0.039227313
CTD-2531D15.5	PPP1R1B	0.91124649	0.011466214
RP11-770G2.2	PPP1R1B	0.884389553	0.019276052
AC005943.6	PPP1R1B	0.813290802	0.049036115
RP3-337H4.8	C1orf51	0.881153581	0.020347385

CTB-31O20.6	CLEC4G	0.846259165	0.033637439
MIR210HG	SAMD12	0.889905298	0.017514045
CTD-2139B15.2	SAMD12	0.852433049	0.031057298
RP3-337H4.8	SLC30A10	0.903152377	0.013615004
CTD-2139B15.2	SLC30A10	0.856115494	0.029564724
RP11-473M20.11	ARMC9	-0.87185109	0.023580975
RP11-160E2.19	ARMC9	-0.848958375	0.032497459
MIR210HG	KLHDC8A	0.902467967	0.01380486
CTD-2139B15.2	KLHDC8A	0.897563805	0.015202321
RP11-91K8.5	KLHDC8A	0.839052233	0.036771665
LLNLR-284B4.1	MTUS2	-0.865168187	0.026043831
RP4-784A16.3	MTUS2	0.825617062	0.042962673
RP11-77G23.2	MTUS2	0.862699501	0.026982986
CTD-2541M15.3	MTUS2	0.815272389	0.048034586
RP11-91K8.5	CRYAB	0.889009964	0.017794551
RP3-339A18.6	LCN6	0.819134677	0.046110141
CTD-2621I17.8	LCN6	0.85679236	0.02929416
RP11-767C1.1	ZNF385D	0.82567111	0.042936866
RP3-339A18.6	PRSS3	0.817672081	0.046834599
CTD-2621I17.8	PRSS3	0.854614899	0.030168752
RP4-784A16.3	DPY19L2P1	0.885326578	0.018971013
RP11-21J18.1	DPY19L2P1	0.826113773	0.042725782
CTD-2541M15.3	DPY19L2P1	0.836856611	0.037752555
RP3-337H4.8	C9orf171	0.912977181	0.011029946
CTD-2139B15.2	C9orf171	0.873900654	0.022849012
AC024028.1	ABCA1	0.964173352	0.00190233
RP11-498J9.2	ABCA1	0.998281794	4.43E-06
CTD-2621I17.8	SLC10A4	0.867479829	0.025178761
RP11-34P13.14	ABCA1	0.988519941	0.000196931
RP11-21J18.1	DES	0.911034949	0.011520101
RP11-93O14.2	ABCA1	0.986701462	0.000264101
RP11-485G7.6	ABCA1	0.954372521	0.003075305
CTD-2621I17.8	DES	0.84815305	0.032835639
LLNLR-284B4.1	SYCP2L	-0.82262187	0.044404077
RP5-1033H22.2	SYCP2L	0.902286552	0.013855397
RP4-784A16.3	SYCP2L	0.896694166	0.015456898
RP11-78A19.3	ABCA1	0.98484675	0.000342692
RP11-298J23.8	SYCP2L	0.892684303	0.016657029
Z69720.3	ABCA1	0.989642836	0.000160351
CTD-2621I17.8	SYCP2L	0.902260931	0.013862541
RP11-77G23.2	SYCP2L	0.837120403	0.037634066
RP11-160E2.19	ABCA2	0.925982791	0.008015068
RP4-784A16.3	RYR3	0.86008717	0.027993961
AC011558.5	ABCA2	0.94867917	0.003883156
CTA-315H11.2	ABCB1	-0.967410973	0.001575762
RP11-66D17.5	ABCB1	0.919357221	0.009492666
CTD-2621I17.8	RYR3	0.893059311	0.016542963
RP11-126K1.8	ABCB1	0.960516065	0.002307694
CTD-2541M15.3	ENPP5	0.913163624	0.010983437
LLNLR-284B4.1	DPY19L2	-0.871731823	0.023623907
RP5-1033H22.2	DPY19L2	0.82520201	0.043161087
RP4-784A16.3	DPY19L2	0.887417977	0.018298596
RP11-21J18.1	DPY19L2	0.909903142	0.011810488
RP11-298J23.8	DPY19L2	0.8160838	0.047627255
RP11-165D6.1	DPY19L2	0.864825144	0.026173389
CTD-2621I17.8	DPY19L2	0.86406577	0.026461268
RP11-77G23.2	DPY19L2	0.872519615	0.023341015
RP11-473M20.11	CLGN	-0.813020255	0.049173598
LLNLR-284B4.1	CLGN	-0.863837191	0.026548216
RP11-77G23.2	CLGN	0.830629107	0.04060042
CTD-2541M15.3	CLGN	0.893898544	0.016289059
RP11-160E2.19	CLGN	-0.826979533	0.042314345
AC011558.5	CLGN	-0.884275728	0.019313265

RP5-1033H22.2	FAM21D	0.894598535	0.016078726
RP11-21J18.1	FAM21D	0.829536811	0.041109914
RP3-438O4.4	ABCB1	0.968674968	0.001456517
RP11-165D6.1	FAM21D	0.877996455	0.021419294
NUP50-AS1	ABCB1	0.967281249	0.001588262
RP3-337H4.8	RIBC2	0.834085977	0.039007599
CTD-2139B15.2	RIBC2	0.912685779	0.011102828
AC011558.5	RIBC2	-0.83066328	0.040584528
RP5-1033H22.2	AP1S3	0.904544446	0.01323276
PSMD5-AS1	ABCB1	0.995179937	3.48E-05
TOPORS-AS1	ABCB1	0.96041292	0.002319686
RP11-298J23.8	AP1S3	0.886468088	0.018602558
AC087294.2	ABCB1	0.987414371	0.0002366
CTD-2621I17.8	AP1S3	0.887471692	0.018281478
RP11-77G23.2	AP1S3	0.8372442	0.03757852
AP001062.8	ABCB1	0.976421381	0.000827373
CTB-31O20.6	GPR161	0.860170602	0.0279614
RP11-455F5.3	ABCB1	0.991958314	9.67E-05
RP11-767C1.1	SERF1B	0.84144618	0.035716004
MIR210HG	SERF1B	0.81949973	0.04593014
LLNLR-284B4.1	LMLN	-0.882352247	0.01994731
RP5-1033H22.2	LMLN	0.829788828	0.040992099
RP4-784A16.3	LMLN	0.905048854	0.013095554
RP11-326C3.2	ABCB1	0.99861469	2.88E-06
RP11-298J23.8	LMLN	0.816257929	0.047540051
RP11-165D6.1	LMLN	0.874488116	0.022641241
CTD-2621I17.8	LMLN	0.890123481	0.017446013
RP11-77G23.2	LMLN	0.883622757	0.019527407
AP006621.8	ABCB1	0.99787239	6.79E-06
MIR210HG	KIF26A	0.906931624	0.012589518
JHDM1D-AS1	ABCB1	0.990007084	0.000149289
RP11-91K8.5	KIF26A	0.896082256	0.015637248
RP5-1033H22.2	CAV2	0.867495321	0.02517301
RP4-784A16.3	CAV2	0.883839807	0.0194561
RP11-21J18.1	CAV2	0.911102343	0.01150292
RP11-298J23.8	CAV2	0.853590316	0.030584489
RP11-165D6.1	CAV2	0.898417971	0.014954255
CTD-2621I17.8	CAV2	0.851894581	0.031278461
RP11-77G23.2	CAV2	0.825389245	0.043071527
LLNLR-284B4.1	CXorf57	-0.846017129	0.033740564
RP5-1033H22.2	CXorf57	0.842165512	0.035401624
RP4-784A16.3	CXorf57	0.844673397	0.034315798
RP11-21J18.1	CXorf57	0.90351548	0.013514794
RP11-298J23.8	CXorf57	0.84011666	0.0363005
RP11-165D6.1	CXorf57	0.873627271	0.022946009
CTD-2621I17.8	CXorf57	0.86350281	0.026675652
RP11-77G23.2	CXorf57	0.826412546	0.042583585
AC011558.5	RNLS	-0.882663571	0.019844022
LLNLR-284B4.1	C2CD4B	-0.857836849	0.028878958
RP4-784A16.3	C2CD4B	0.860391336	0.027875342
RP11-21J18.1	C2CD4B	0.852148062	0.031174257
RP11-165D6.1	C2CD4B	0.815190123	0.048075974
RP11-77G23.2	C2CD4B	0.863694132	0.026602701
RP11-20I23.6	ABCB1	0.993620875	6.09E-05
RP11-91K8.5	C16orf73	0.848660999	0.032622144
RP11-160E2.19	C16orf73	-0.813694296	0.048831405
AC011558.5	C16orf73	-0.892040292	0.016853796
RP11-473M20.11	KIF24	-0.833495109	0.039277737
CTD-2139B15.2	KIF24	0.882493574	0.01990039
RP11-91K8.5	KIF24	0.863645245	0.026621333
RP11-160E2.19	KIF24	-0.841791275	0.035565019
RP11-160E2.19	ABCB1	0.97675045	0.000804529
RP11-473M20.11	MNS1	-0.813196182	0.049084178

CTD-2139B15.2	MNS1	0.848510442	0.032685356
CTD-2541M15.3	MNS1	0.841937654	0.035501066
RP11-91K8.5	MNS1	0.905822781	0.012886378
RP11-160E2.19	MNS1	-0.83141385	0.040236217
AC005786.7	ABCB1	0.980152145	0.000586997
RP11-473M20.11	GAD1	-0.864246036	0.026392794
CCDC144NL-AS1	GAD1	0.829535061	0.041110733
CTD-2531D15.5	GAD1	0.901653319	0.014032497
AC011558.5	GAD1	-0.845712323	0.033870646
RP3-337H4.8	RPS2P4	0.844850374	0.034239775
CTD-2139B15.2	RPS2P4	0.857999996	0.028814358
RP3-337H4.8	PPAPDC1A	0.875316583	0.02234977
RP11-767C1.1	PPAPDC1A	0.822619156	0.044405393
MIR210HG	PPAPDC1A	0.838690679	0.036932355
LLNLR-284B4.1	LHFP	-0.8819066	0.020095608
RP11-77G23.2	LHFP	0.844099611	0.034562823
AC005944.2	ABCB1	0.973180305	0.001069298
AC011558.5	LHFP	-0.842307095	0.0353399
RP3-337H4.8	COL23A1	0.884929978	0.019099837
MIR210HG	COL23A1	0.88350305	0.019566788
CTD-2139B15.2	COL23A1	0.890884324	0.017209768
CTB-191K22.5	ABCB1	0.960121837	0.002353693
RP5-1033H22.2	MPV17L	0.844843358	0.034242787
RP11-298J23.8	MPV17L	0.831542085	0.040176848
RP11-165D6.1	MPV17L	0.844014619	0.034599484
RP11-20I23.8	ABCB1	0.992066709	9.42E-05
CDC37L1-AS1	ABCB1	0.972713185	0.001106697
RP11-77G23.2	AGAP1	0.893510558	0.016406207
CTD-2541M15.3	AGAP1	0.87440476	0.022670667
AC011558.5	AGAP1	-0.888953344	0.017812362
RP5-1142A6.10	ABCB1	0.987041611	0.000250792
RP3-337H4.8	KRT13	0.911119621	0.011498518
MIR210HG	KRT13	0.888229469	0.018040822
RP11-556I13.1	ABCB1	0.989935847	0.000151421
MIR210HG	ABCB4	0.934631257	0.006269946
CTD-2139B15.2	MS4A4A	0.853633035	0.030567102
RP11-91K8.5	ABCB4	0.974655113	0.000955405
RP11-767C1.1	ABCB6	0.96323604	0.002002538
CTA-315H11.2	ABCC13	-0.945677909	0.004346185
RP3-337H4.8	TAC3	0.852125033	0.031183718
MIR210HG	TAC3	0.879818521	0.020797456
CTD-2139B15.2	TAC3	0.875197055	0.022391711
RP11-66D17.5	ABCC13	0.951135532	0.003523267
RP11-126K1.8	ABCC13	0.974037412	0.001002334
RP4-784A16.3	PTPRVP	0.859196834	0.028342549
RP11-21J18.1	PTPRVP	0.847859449	0.032959341
RP3-438O4.4	ABCC13	0.993645602	6.04E-05
CCDC144NL-AS1	C14orf79	0.892349634	0.016759143
NUP50-AS1	ABCC13	0.984144057	0.000375123
RP11-770G2.2	C14orf79	0.86197601	0.027261211
CTA-315H11.2	C14orf79	0.828759842	0.041474133
RP11-160E2.19	C14orf79	-0.81623962	0.047549217
AC011558.5	C14orf79	-0.819452529	0.045953396
RP11-473M20.11	KREMEN1	-0.871764452	0.023612158
LLNLR-284B4.1	KREMEN1	-0.878620481	0.02120534
CTD-2541M15.3	KREMEN1	0.854449193	0.030235806
RP11-160E2.19	KREMEN1	-0.828134307	0.041768456
PSMD5-AS1	ABCC13	0.982708886	0.000445889
RP3-337H4.8	DMC1	0.916700834	0.01011913
TOPORS-AS1	ABCC13	0.979597763	0.000620131
RP11-91K8.5	DMC1	0.813005169	0.04918127
AC087294.2	ABCC13	0.999079027	1.27E-06
CTB-31O20.6	MARCO	0.848500488	0.032689537

AC005943.6	MARCO	0.864577606	0.026267066
RP5-1033H22.2	PRTFDC1	0.86109444	0.027602058
RP11-298J23.8	PRTFDC1	0.881379969	0.020271533
RP11-165D6.1	PRTFDC1	0.850398211	0.031896947
CTD-2541M15.3	KIF5A	0.815145762	0.048098298
AP001062.8	ABCC13	0.992049875	9.46E-05
RP11-473M20.11	TMEM231	-0.832483018	0.039742483
CCDC144NL-AS1	TMEM231	0.870710381	0.023993118
CTD-2531D15.5	TMEM231	0.882813966	0.019794217
CTA-315H11.2	TMEM231	0.843584225	0.034785416
CTD-2139B15.2	TMEM231	0.830439005	0.040688878
RP11-160E2.19	TMEM231	-0.859379509	0.028270861
AC011558.5	TMEM231	-0.908294612	0.012229202
CTD-2541M15.3	KIF7	0.824034973	0.043721273
RP11-455F5.3	ABCC13	0.999039153	1.38E-06
RP11-326C3.2	ABCC13	0.988254125	0.000206138
RP4-784A16.3	XRCC2	0.866431144	0.025569482
AP006621.8	ABCC13	0.984619031	0.000353042
CTD-2541M15.3	XRCC2	0.881700674	0.020164312
LLNLR-284B4.1	FAM59B	-0.882493555	0.019900396
CTD-2541M15.3	FAM59B	0.896917169	0.015391422
RP11-160E2.19	FAM59B	-0.88414422	0.019356302
JHDM1D-AS1	ABCC13	0.999991163	1.17E-10
RP11-20I23.6	ABCC13	0.996597588	1.73E-05
RP11-77G23.2	DPY19L2P2	0.902204513	0.01387828
RP11-160E2.19	ABCC13	0.943203919	0.004747086
AC011558.5	DPY19L2P2	-0.901422449	0.014097335
RP11-473M20.11	PKLR	-0.855456118	0.029829428
CTD-2139B15.2	PKLR	0.902078124	0.013913569
RP11-91K8.5	PKLR	0.870161863	0.024192511
RP11-160E2.19	PKLR	-0.814176988	0.048587036
AC005786.7	ABCC13	0.991658966	0.000104069
AC024028.1	TTC26	-0.813333082	0.049014646
RP11-473M20.11	TTC26	-0.880548971	0.020550626
AC005944.2	ABCC13	0.965877133	0.001726689
RP11-77G23.2	TTC26	0.821985778	0.044713043
CTD-2541M15.3	TTC26	0.871218038	0.02380928
AC011558.5	TTC26	-0.843939558	0.034631877
RP3-337H4.8	GATA5	0.912186528	0.011228235
MIR210HG	GATA5	0.880678602	0.020506969
CTB-191K22.5	ABCC13	0.977592499	0.000747519
RP11-20I23.8	ABCC13	0.99978859	6.70E-08
AC011558.5	GATA5	-0.835965389	0.038154162
RP3-337H4.8	MTMR8	0.86016017	0.027965471
MIR210HG	MTMR8	0.911846632	0.011314004
CTD-2541M15.3	FAM72D	0.854667461	0.030147496
RP11-91K8.5	FAM72D	0.883981715	0.019409547
RP11-160E2.19	FAM72D	-0.855374912	0.029862105
CDC37L1-AS1	ABCC13	0.995119618	3.57E-05
RP3-337H4.8	SIRT4	0.867771469	0.02507061
MIR210HG	SIRT4	0.878705008	0.021176438
RP5-1142A6.10	ABCC13	0.9860914	0.000288828
RP11-556I13.1	ABCC13	0.999985768	3.04E-10
AC011558.5	SIRT4	-0.842666401	0.035183485
RP3-337H4.8	GPT	0.851786159	0.031323082
RP11-498J9.2	ABCC3	0.973595069	0.001036626
RP11-91K8.5	GPT	0.834933474	0.038621657
RP11-34P13.14	ABCC3	0.917268571	0.009983607
LLNLR-284B4.1	LRRCC1	-0.826907443	0.042348534
CTD-2541M15.3	LRRCC1	0.828597217	0.041550557
RP11-91K8.5	LRRCC1	0.878229565	0.02133925
RP11-160E2.19	LRRCC1	-0.8245893	0.043454772
RP11-93O14.2	ABCC3	0.946073949	0.004283619

RP5-1033H22.2	NXN	0.869415622	0.024465039
RP4-784A16.3	NXN	0.865075081	0.026078964
RP11-21J18.1	NXN	0.878702658	0.021177241
RP11-298J23.8	NXN	0.856191469	0.029534296
RP11-165D6.1	NXN	0.891257859	0.01709435
RP3-337H4.8	FAM164C	0.83761187	0.037413777
MIR210HG	FAM164C	0.814542103	0.048402569
CTD-2139B15.2	FAM164C	0.831910951	0.040006305
CTA-315H11.2	PHYHD1	0.827569458	0.04203506
CTD-2139B15.2	PHYHD1	0.847511181	0.033106361
CTD-2541M15.3	PHYHD1	0.88765956	0.018221673
RP11-91K8.5	PHYHD1	0.839692513	0.036487905
RP11-160E2.19	PHYHD1	-0.862336392	0.027122453
RP11-485G7.6	ABCC3	0.98598074	0.000293432
RP11-78A19.3	ABCC3	0.946919471	0.004151535
RP11-77G23.2	ESCO2	0.882338459	0.01995189
Z69720.3	ABCC3	0.963006526	0.002027463
AC011558.5	ESCO2	-0.876147044	0.022059407
AC024028.1	ABCG1	0.959453283	0.002432724
MIR210HG	ANGPTL4	0.89012084	0.017446835
CTD-2139B15.2	ANGPTL4	0.901188449	0.0141632
CCDC144NL-AS1	SLC37A2	0.836784768	0.037784855
RP11-473M20.11	ABCG1	0.985222266	0.000325959
TOPORS-AS1	ABI3	0.945076567	0.004442035
RP11-156P1.3	SLC37A2	0.816121044	0.047608597
AC005943.6	SLC37A2	0.83509555	0.038548054
AC005786.7	ABI3	0.930682478	0.007040846
RP5-1142A6.10	ABI3	0.929690045	0.007241446
CTB-31O20.6	GAL	0.820262466	0.045555109
CTA-315H11.2	ABLIM1	-0.976875686	0.000795918
PSMD5-AS1	ABLIM1	0.947967493	0.003990637
CTB-31O20.6	CCL18	0.850199706	0.031979423
AC005943.6	CCL18	0.882561004	0.019878022
RP5-1033H22.2	CLOCK	0.896664687	0.015465563
RP11-21J18.1	CLOCK	0.875277484	0.022363485
RP11-298J23.8	CLOCK	0.905171333	0.013062342
RP11-165D6.1	CLOCK	0.901377685	0.014109923
MIR210HG	CREB3L1	0.863549714	0.026657759
AC087294.2	ABLIM1	0.926942038	0.007811226
CTB-31O20.6	IGSF3	0.873231637	0.023086729
RP11-455F5.3	ABLIM1	0.935732487	0.006062747
RP11-326C3.2	ABLIM1	0.976256225	0.000838957
RP4-784A16.3	CLCN5	0.831518171	0.040187917
RP11-21J18.1	CLCN5	0.818766781	0.046291873
AP006621.8	ABLIM1	0.95803904	0.002604142
CTD-2541M15.3	CLCN5	0.821192731	0.045099643
AC011558.5	CLCN5	-0.818976879	0.046188049
JHDM1D-AS1	ABLIM1	0.940191646	0.00525859
RP3-339A18.6	SHANK1	0.900602808	0.01432869
RP11-21J18.1	SHANK1	0.908357946	0.012212582
RP11-20I23.6	ABLIM1	0.949109816	0.003818818
RP11-160E2.19	ABLIM1	0.986855139	0.000258045
RP3-337H4.8	PSAT1	0.909958504	0.011796202
MIR210HG	PSAT1	0.861181917	0.027568146
AC005786.7	ABLIM1	0.919799663	0.009390213
RP11-20I23.8	ABLIM1	0.942385424	0.004883535
AC011558.5	PSAT1	-0.822787237	0.044323918
CCDC144NL-AS1	TRIM45	0.88300325	0.01973162
CTD-2531D15.5	TRIM45	0.830816357	0.040513377
CTA-315H11.2	TRIM45	0.843313933	0.034902423
CTD-2139B15.2	TRIM45	0.837136568	0.037626811
RP11-326C3.2	TRIM45	-0.823336599	0.044058107
RP11-160E2.19	TRIM45	-0.871457017	0.023722971

AC011558.5	TRIM45	-0.914081019	0.010755977
MIR210HG	INTU	0.843563157	0.034794529
RP3-337H4.8	RPS6KL1	0.844900071	0.034218441
RP5-1142A6.10	ABLIM1	0.944204689	0.004582827
RP11-91K8.5	RPS6KL1	0.841323332	0.035769824
AC011558.5	RPS6KL1	-0.847263484	0.033211113
AC024028.1	NAPEPLD	-0.815921488	0.047708607
RP11-473M20.11	NAPEPLD	-0.82275055	0.044341696
LLNLR-284B4.1	NAPEPLD	-0.905266553	0.01303655
CTD-2541M15.3	NAPEPLD	0.8664708	0.025554655
RP11-473M20.11	MRAP2	-0.851304323	0.031521746
CCDC144NL-AS1	MRAP2	0.816986965	0.047175758
CTD-2531D15.5	MRAP2	0.826147687	0.042709629
RP11-160E2.19	MRAP2	-0.847014173	0.033316704
RP11-556I13.1	ABLIM1	0.940301533	0.005239481
CTD-2139B15.2	CDKN2A	0.904664514	0.013200037
AC011558.5	ABLIM1	0.934411114	0.006311769
RP4-784A16.3	XIRP1	0.831356078	0.040262977
CTA-315H11.2	ABP1	-0.959805006	0.002390986
PSMD5-AS1	ABP1	0.968194227	0.001501323
TOPORS-AS1	ABP1	0.921159933	0.009078609
CTD-2621I17.8	XIRP1	0.860254726	0.027928588
RP11-473M20.11	C13orf38	-0.827005199	0.042302176
AC087294.2	ABP1	0.93966898	0.005349951
RP11-77G23.2	C13orf38	0.826123067	0.042721355
CTD-2541M15.3	C13orf38	0.914275475	0.01070806
RP11-160E2.19	C13orf38	-0.844265922	0.034491137
RP11-455F5.3	ABP1	0.948249553	0.003947866
CTD-2621I17.8	MIAT	0.896422915	0.01553672
CTA-315H11.2	EID2B	0.864854988	0.026162105
CTD-2541M15.3	EID2B	0.909115791	0.01201456
PSMD5-AS1	EID2B	-0.834004314	0.039044882
RP11-326C3.2	EID2B	-0.843882258	0.034656615
AP006621.8	EID2B	-0.839400941	0.036616997
RP11-326C3.2	ABP1	0.984884887	0.000340973
AP006621.8	ABP1	0.974518854	0.000965661
JHDM1D-AS1	ABP1	0.947672407	0.004035624
RP3-337H4.8	TMEM233	0.867847402	0.025042487
RP11-20I23.6	ABP1	0.962861835	0.002043254
RP11-91K8.5	TMEM233	0.901001106	0.014216038
RP11-160E2.19	ABP1	0.998196135	4.88E-06
CTB-31O20.6	C1QC	0.852162657	0.031168262
AC005786.7	ABP1	0.939970979	0.005297068
LLNLR-284B4.1	IFT81	-0.857023034	0.029202222
AC005944.2	ABP1	0.936143318	0.00598632
RP11-20I23.8	ABP1	0.951732986	0.003438333
RP11-473M20.11	IRAK1BP1	-0.817367118	0.046986315
CTA-315H11.2	IRAK1BP1	0.816976735	0.047180861
CTD-2541M15.3	IRAK1BP1	0.836489922	0.037917553
RP11-326C3.2	IRAK1BP1	-0.819608093	0.045876772
RP11-160E2.19	IRAK1BP1	-0.910606999	0.011629488
CDC37L1-AS1	ABP1	0.918980817	0.009580253
RP5-1142A6.10	ABP1	0.965707464	0.001743803
CTB-31O20.6	C1QB	0.850503611	0.031853195
AC005943.6	C1QB	0.897138525	0.015326563
RP11-770G2.2	OLFML2B	0.860492276	0.027836029
CTB-31O20.6	OLFML2B	0.8290864	0.04132087
CTD-2139B15.2	OLFML2B	0.901107868	0.014185915
RP11-556I13.1	ABP1	0.947660388	0.004037462
RP11-91K8.5	KCNJ12	0.8640673	0.026460687
LLNLR-284B4.1	LMCD1	-0.869780647	0.02433155
RP5-1033H22.2	LMCD1	0.835988562	0.038143694
RP4-784A16.3	LMCD1	0.856844729	0.029273276

RP11-21J18.1	LMCD1	0.91443691	0.010668358
RP11-298J23.8	LMCD1	0.833990288	0.039051287
RP11-165D6.1	LMCD1	0.8713589	0.023758388
CTD-2621I17.8	LMCD1	0.874836949	0.022518295
RP11-77G23.2	LMCD1	0.847946748	0.032922537
AC011558.5	ABP1	0.946330996	0.00424325
RP4-784A16.3	GAS2L3	0.899040376	0.014774735
RP11-21J18.1	GAS2L3	0.825235948	0.043144848
CTA-315H11.2	ABTB1	-0.948626283	0.003891094
RP3-337H4.8	ABCB4	0.849995181	0.032064506
RP11-66D17.5	ABTB1	0.949744499	0.00372496
CTD-2139B15.2	ABCB4	0.868468049	0.024813187
RP11-126K1.8	ABTB1	0.974390252	0.000975391
RP5-1033H22.2	NT5DC3	0.870675977	0.024005602
RP4-784A16.3	NT5DC3	0.890901797	0.017204361
RP3-339A18.6	NT5DC3	0.815105124	0.048118754
RP11-21J18.1	NT5DC3	0.868497402	0.024802367
RP11-298J23.8	NT5DC3	0.853072457	0.03079564
RP11-165D6.1	NT5DC3	0.889481955	0.01764641
RP3-438O4.4	ABTB1	0.991529864	0.000107311
MIR210HG	ARHGAP23	0.86385203	0.026542567
NUP50-AS1	ABTB1	0.984147116	0.000374979
RP11-91K8.5	ARHGAP23	0.909811838	0.011834066
PSMD5-AS1	ABTB1	0.986163895	0.000285832
RP4-784A16.3	PLCB4	0.862957686	0.026884026
RP3-339A18.6	PLCB4	0.873089052	0.023137545
TOPORS-AS1	ABTB1	0.978478516	0.000689777
AC087294.2	ABTB1	0.998917877	1.76E-06
AP001062.8	ABTB1	0.991804384	0.000100477
CTD-2621I17.8	PLCB4	0.813852787	0.048751104
RP3-337H4.8	C16orf59	0.838739656	0.036910568
RP11-455F5.3	ABTB1	0.999439937	4.70E-07
RP11-326C3.2	ABTB1	0.990594157	0.000132289
AP006621.8	ABTB1	0.987901488	0.000218676
RP11-21J18.1	NRXN2	0.882744459	0.019817228
JHDM1D-AS1	ABTB1	0.999767226	8.13E-08
RP11-20I23.6	ABTB1	0.997564151	8.89E-06
CTD-2541M15.3	LOX	0.812051983	0.049667105
CTB-31O20.6	SLC25A27	0.833370992	0.039334593
AC005943.6	SLC25A27	0.822307774	0.044556517
LLNLR-284B4.1	FANCB	-0.915873883	0.010318116
RP11-160E2.19	ABTB1	0.948735024	0.003874782
AC005786.7	ABTB1	0.991854319	9.93E-05
RP11-160E2.19	FANCB	-0.842770187	0.035138365
AC011558.5	FANCB	-0.896622435	0.015477988
CTD-2139B15.2	LBX2	0.818239607	0.046552866
RP5-1033H22.2	UCA1	0.830601447	0.040613285
RP11-21J18.1	UCA1	0.840905081	0.035953349
RP11-298J23.8	UCA1	0.83406324	0.039017977
RP11-165D6.1	UCA1	0.848258431	0.032791292
CTD-2621I17.8	UCA1	0.814685095	0.048330415
AC005944.2	ABTB1	0.969609125	0.001371373
CTB-31O20.6	VSIG4	0.851879997	0.031284461
AC005943.6	VSIG4	0.89916103	0.014740056
RP3-337H4.8	C21orf63	0.855090547	0.029976666
MIR210HG	C21orf63	0.814847173	0.048248689
CTB-191K22.5	ABTB1	0.977717484	0.000739234
RP11-20I23.8	ABTB1	0.999967468	1.59E-09
AC011558.5	C21orf63	-0.865012389	0.026102634
RP3-337H4.8	RDM1	0.879502795	0.02090458
MIR210HG	RDM1	0.841785434	0.035567572
CDC37L1-AS1	ABTB1	0.993231808	6.86E-05
RP11-91K8.5	RDM1	0.892288574	0.016777806

AC011558.5	RDM1	-0.846176308	0.033672725
RP11-473M20.11	ADD2	-0.830315653	0.040746324
RP3-337H4.8	ADD2	0.891811981	0.01692382
CTD-2139B15.2	ADD2	0.899428359	0.014663359
RP5-1142A6.10	ABTB1	0.987868971	0.00021985
AC011558.5	ADD2	-0.836877606	0.037743118
RP11-556I13.1	ABTB1	0.999747033	9.60E-08
RP3-339A18.6	BHLHB9	0.85580669	0.029688553
CTD-2621I17.8	BHLHB9	0.837006109	0.037685383
CCDC144NL-AS1	S100A3	0.906528469	0.012697064
CTB-31O20.6	S100A3	0.872208717	0.023452463
CTA-315H11.2	S100A3	0.850330283	0.031925159
CTD-2139B15.2	S100A3	0.874753552	0.022547659
LLNLR-284B4.1	MOBKL2B	-0.847737324	0.033010861
RP11-77G23.2	MOBKL2B	0.824331892	0.04357843
CCDC144NL-AS1	MSL3L2	0.851814927	0.03131124
CTA-315H11.2	MSL3L2	0.897282332	0.015284496
CTD-2139B15.2	MSL3L2	0.812505848	0.049435496
CTD-2541M15.3	MSL3L2	0.847893919	0.032944807
PSMD5-AS1	MSL3L2	-0.847915809	0.032935578
RP11-326C3.2	MSL3L2	-0.868447684	0.024820695
AP006621.8	MSL3L2	-0.857595413	0.028974683
RP11-20I23.6	MSL3L2	-0.814282293	0.048533799
RP5-1142A6.10	MSL3L2	-0.821997819	0.044707185
LLNLR-284B4.1	LIN9	-0.823676543	0.043893997
RP11-91K8.5	LIN9	0.857887758	0.028858793
RP11-160E2.19	LIN9	-0.867227844	0.025272385
CCDC144NL-AS1	NHLRC1	0.817309627	0.047014943
CTA-315H11.2	NHLRC1	0.841681397	0.035613059
RP11-91K8.5	NHLRC1	0.867835455	0.025046911
RP11-160E2.19	NHLRC1	-0.83202955	0.039951543
AC011558.5	NHLRC1	-0.882707755	0.019829384
RP3-337H4.8	ASS1	0.85539026	0.029855928
MIR210HG	ASS1	0.833670724	0.039197357
CTD-2139B15.2	ASS1	0.83617866	0.038057875
CTD-2541M15.3	LEAP2	0.913077058	0.011005019
RP11-91K8.5	LEAP2	0.912174341	0.011231305
RP11-160E2.19	LEAP2	-0.854140256	0.03036101
AC011558.5	LEAP2	-0.905770238	0.012900527
LLNLR-284B4.1	FAM198B	-0.82374465	0.043861153
RP4-784A16.3	FAM198B	0.90324781	0.013588631
CTD-2541M15.3	FAM198B	0.840882036	0.035963473
RP11-770G2.2	KCNMA1	0.815858013	0.047740439
CTB-31O20.6	KCNMA1	0.836446549	0.037937092
RP11-77G23.2	CAV1	0.895319298	0.015863526
LLNLR-284B4.1	LPIN3	-0.913493003	0.010901505
RP11-77G23.2	LPIN3	0.860152062	0.027968634
CTD-2541M15.3	LPIN3	0.835466942	0.038379643
RP11-160E2.19	LPIN3	-0.835222275	0.03849055
AC011558.5	LPIN3	-0.907611264	0.012409218
RP11-77G23.2	ERCC6L	0.88266632	0.019843111
CTD-2541M15.3	ERCC6L	0.877749577	0.021504223
RP11-160E2.19	ERCC6L	-0.864822022	0.026174569
RP5-1033H22.2	CRYBA4	0.890591999	0.017300353
RP11-21J18.1	CRYBA4	0.890817047	0.017230595
RP11-298J23.8	CRYBA4	0.899311069	0.014696986
RP11-165D6.1	CRYBA4	0.90219126	0.013881978
CTD-2621I17.8	CRYBA4	0.856698749	0.029331509
MIR210HG	SLC1A3	0.8192959	0.046030604
LLNLR-284B4.1	E2F7	-0.897736266	0.015152077
RP11-77G23.2	E2F7	0.86113913	0.02758473
CTD-2541M15.3	E2F7	0.842510356	0.035251375
RP11-160E2.19	E2F7	-0.847444747	0.033134441

CTD-2541M15.3	GRTP1	0.849694797	0.032189659
AC011558.5	GRTP1	-0.903995241	0.013382937
RP11-77G23.2	RAD54B	0.821684245	0.044859853
CTD-2541M15.3	RAD54B	0.864404623	0.026332624
RP11-160E2.19	RAD54B	-0.862303869	0.027134962
CTA-315H11.2	KIAA1009	0.813387155	0.048987195
RP11-326C3.2	KIAA1009	-0.845404872	0.034002096
RP5-1142A6.10	KIAA1009	-0.82461906	0.043440486
CTD-2541M15.3	PLSCR4	0.897104022	0.015336664
RP11-91K8.5	PLSCR4	0.843519249	0.034813527
RP11-770G2.2	ST14	0.87744104	0.021610588
CTB-31O20.6	ST14	0.900145648	0.014458519
RP11-473M20.11	TMEM98	-0.873358979	0.023041391
RP11-160E2.19	TMEM98	-0.853292186	0.030705965
RP11-770G2.2	HMGA2	0.875232911	0.022379126
CTB-31O20.6	HMGA2	0.909188998	0.011995514
CTA-315H11.2	HMGA2	0.818257732	0.046543881
CTD-2139B15.2	HMGA2	0.910616274	0.011627112
RP11-473M20.11	GSG2	-0.825715729	0.042915567
LLNLR-284B4.1	GSG2	-0.838040032	0.037222358
CTD-2541M15.3	GSG2	0.820475556	0.04545059
RP11-160E2.19	GSG2	-0.896060343	0.015643725
RP11-77G23.2	DIAPH3	0.844632506	0.034333375
CTD-2541M15.3	DIAPH3	0.893641219	0.01636671
LLNLR-284B4.1	CENPI	-0.830978026	0.040438296
RP11-91K8.5	CENPI	0.853024859	0.030815082
CCDC144NL-AS1	SPR	0.834539284	0.038800943
RP11-770G2.2	SPR	0.849662424	0.032203161
RP11-473M20.11	NFIA	-0.831151275	0.040357909
RP11-77G23.2	NFIA	0.848214518	0.032809769
LLNLR-284B4.1	ZHX3	-0.860774369	0.027726305
RP4-784A16.3	ZHX3	0.845429965	0.033991358
RP11-21J18.1	ZHX3	0.86223992	0.027159565
RP11-165D6.1	ZHX3	0.825707692	0.042919404
CTD-2621I17.8	ZHX3	0.826626545	0.042481872
RP11-77G23.2	ZHX3	0.848074069	0.032868895
CCDC144NL-AS1	OSCP1	0.902286844	0.013855315
CTD-2531D15.5	OSCP1	0.853426159	0.030651348
CTA-315H11.2	OSCP1	0.840877005	0.035965684
CTD-2139B15.2	OSCP1	0.872090374	0.023494952
AC011558.5	OSCP1	-0.824880857	0.043314907
CTD-2139B15.2	DFNA5	0.82421305	0.043635577
RP11-91K8.5	DFNA5	0.913580293	0.010879842
CCDC144NL-AS1	GTF2H2	0.864128153	0.026437562
CTD-2531D15.5	GTF2H2	0.897985238	0.015079683
CTB-31O20.6	GTF2H2	0.882823226	0.019791153
CTA-315H11.2	GTF2H2	0.828397628	0.041644441
AC005943.6	GTF2H2	0.867130481	0.025308604
CTD-2139B15.2	GTF2H2	0.828664399	0.041518978
RP11-160E2.19	FAM82A1	-0.827841507	0.041906556
AC011558.5	FAM82A1	-0.894826478	0.016010518
CCDC144NL-AS1	TIGD2	0.813240518	0.049061655
CTA-315H11.2	TIGD2	0.813627192	0.048865422
PSMD5-AS1	TIGD2	-0.879545684	0.020890013
RP11-455F5.3	TIGD2	-0.818581697	0.046383427
RP11-326C3.2	TIGD2	-0.864579553	0.026266329
AP006621.8	TIGD2	-0.878848192	0.021127522
RP11-20I23.6	TIGD2	-0.835314205	0.038448861
RP11-160E2.19	TIGD2	-0.910176245	0.011740098
AC005786.7	TIGD2	-0.814597182	0.04837477
AC005944.2	TIGD2	-0.866963774	0.025370676
RP11-20I23.8	TIGD2	-0.81264202	0.049366104
RP5-1142A6.10	TIGD2	-0.855792441	0.029694273

AC011558.5	TIGD2	-0.898946253	0.014801816
RP4-784A16.3	TMEM144	0.814516375	0.048415557
RP3-339A18.6	TMEM144	0.859465212	0.028237257
CTD-2621117.8	TMEM144	0.829080979	0.041323412
LLNLR-284B4.1	C15orf42	-0.873209801	0.023094508
CTD-2541M15.3	C15orf42	0.862756427	0.026961152
RP11-160E2.19	C15orf42	-0.882949742	0.019749305
RP11-473M20.11	TTC12	-0.847078746	0.03328934
LLNLR-284B4.1	TTC12	-0.832116128	0.039911589
RP11-160E2.19	TTC12	-0.826263246	0.042654615
RP11-473M20.11	CASC5	-0.813122435	0.049121653
LLNLR-284B4.1	CASC5	-0.871740619	0.02362074
CTD-2541M15.3	CASC5	0.860824283	0.027706912
RP11-160E2.19	CASC5	-0.885645455	0.018867738
RP3-337H4.8	GSTO2	0.894874575	0.015996143
RP11-156P1.3	KLHL23	0.878922001	0.021102328
RP11-126K1.8	KLHL23	-0.820733107	0.045324412
PSMD5-AS1	KLHL23	-0.848135754	0.03284292
AP006621.8	KLHL23	-0.840242541	0.036244968
AC005944.2	KLHL23	-0.843823456	0.034682009
LLNLR-284B4.1	GPR89B	-0.818141132	0.046601695
AC011558.5	GPR89B	-0.834096434	0.039002825
RP5-1033H22.2	MFI2	0.851376934	0.03149177
RP11-21J18.1	MFI2	0.870030932	0.024240222
RP11-298J23.8	MFI2	0.860993595	0.027641176
RP11-165D6.1	MFI2	0.866961078	0.025371681
CTD-2531D15.5	AQP10	0.833844	0.039118122
RP3-337H4.8	CDC20P1	0.837850793	0.037306905
LLNLR-284B4.1	MYO1E	-0.874204673	0.022741375
RP4-784A16.3	MYO1E	0.862890624	0.026909713
CTD-2541M15.3	MYO1E	0.888564993	0.017934755
RP11-160E2.19	MYO1E	-0.829357733	0.041193727
AC005944.2	MYO1E	-0.820167741	0.045601607
AC011558.5	MYO1E	-0.843928447	0.034636673
MIR210HG	CLK2P	0.900714474	0.014297064
CCDC144NL-AS1	TTLL11	0.84045379	0.036151866
CTD-2531D15.5	TTLL11	0.83708577	0.037649612
CTD-2139B15.2	TTLL11	0.900172285	0.014450939
AC011558.5	TTLL11	-0.846737141	0.033434222
LLNLR-284B4.1	TMEM67	-0.857363498	0.029066776
RP11-21J18.1	TMEM67	0.892837566	0.016610366
RP11-165D6.1	TMEM67	0.816664717	0.047336622
RP5-1033H22.2	TRIM7	0.813155858	0.049104667
RP11-298J23.8	TRIM7	0.82156478	0.044918081
CCDC144NL-AS1	ZNF613	0.854941105	0.030036954
RP3-438O4.4	ZNF613	-0.829851764	0.040962702
PSMD5-AS1	ZNF613	-0.897520942	0.015214821
TOPORS-AS1	ZNF613	-0.84390015	0.034648889
AC087294.2	ZNF613	-0.859066715	0.028393664
AP001062.8	ZNF613	-0.819877421	0.045744254
RP11-455F5.3	ZNF613	-0.869475858	0.024442987
AP006621.8	ZNF613	-0.907908948	0.012330642
JHDM1D-AS1	ZNF613	-0.87502467	0.022452265
RP11-20I23.6	ZNF613	-0.896454183	0.015527509
AC005786.7	ZNF613	-0.864302937	0.026371197
AC005944.2	ZNF613	-0.856504188	0.029409207
RP11-20I23.8	ZNF613	-0.879552473	0.020887707
CDC37L1-AS1	ZNF613	-0.846711661	0.03344504
RP5-1142A6.10	ZNF613	-0.90313843	0.01361886
RP11-556I13.1	ZNF613	-0.875186126	0.022395548
RP11-770G2.2	PVALB	0.862758542	0.02696034
CTB-31O20.6	PVALB	0.889058938	0.017779152
CTB-31O20.6	C1QA	0.851419547	0.031474184

RP3-337H4.8	TNNI3	0.901238533	0.01414909
MIR210HG	TNNI3	0.890923746	0.017197569
CCDC144NL-AS1	SLCO2B1	0.85394164	0.030441632
CTB-31O20.6	SLCO2B1	0.817677314	0.046831998
AC005943.6	SLCO2B1	0.890097183	0.017454206
RP4-784A16.3	NUP62CL	0.814738821	0.048303317
RP11-21J18.1	NUP62CL	0.834398988	0.038864847
CTD-2621I17.8	NUP62CL	0.812743342	0.049314502
RP11-77G23.2	NUP62CL	0.88807167	0.01809081
AC011558.5	NUP62CL	-0.836408347	0.037954305
RP11-473M20.11	SKA2L	-0.813494066	0.048932941
RP11-160E2.19	SKA2L	-0.888890222	0.017832228
RP3-337H4.8	PYCRL	0.885115709	0.019039456
CTD-2139B15.2	PYCRL	0.915499427	0.010408839
LLNLR-284B4.1	ZNF619	-0.831218668	0.040326659
RP4-784A16.3	ZNF619	0.883810495	0.019465723
CTD-2541M15.3	ZNF619	0.863667479	0.026612858
NUP50-AS1	ZNF619	-0.816247767	0.047545139
PSMD5-AS1	ZNF619	-0.849794618	0.032148044
RP11-326C3.2	ZNF619	-0.813089262	0.049138514
AP006621.8	ZNF619	-0.835903566	0.038182095
RP11-20I23.6	ZNF619	-0.817949155	0.046696954
RP11-160E2.19	ZNF619	-0.859660631	0.028160706
AC005786.7	ZNF619	-0.824948354	0.043282557
AC005944.2	ZNF619	-0.896182864	0.015607526
CTB-191K22.5	ZNF619	-0.816422061	0.047457922
RP5-1142A6.10	ZNF619	-0.853017839	0.03081795
AC011558.5	ZNF619	-0.836479524	0.037922237
RP11-473M20.11	MCM10	-0.845201071	0.034089362
LLNLR-284B4.1	MCM10	-0.911487425	0.011404989
RP11-77G23.2	MCM10	0.830043096	0.040873391
RP11-160E2.19	MCM10	-0.824526067	0.043485134
RP5-1033H22.2	PTGES	0.844295254	0.034478502
RP11-298J23.8	PTGES	0.837539016	0.037446394
RP11-165D6.1	PTGES	0.846569418	0.033505465
CTA-315H11.2	C14orf143	0.867191867	0.025285765
CTD-2139B15.2	C14orf143	0.882631718	0.019854578
RP11-91K8.5	C14orf143	0.840371062	0.036188313
RP11-326C3.2	C14orf143	-0.862383756	0.027104242
RP11-20I23.6	C14orf143	-0.822919477	0.044259865
RP11-160E2.19	C14orf143	-0.897630821	0.015182787
RP5-1142A6.10	C14orf143	-0.825634818	0.042954194
RP11-770G2.2	NUPR1	0.888680677	0.017898254
CTB-31O20.6	NUPR1	0.81152825	0.049934992
LLNLR-284B4.1	C11orf82	-0.883800762	0.019468918
RP4-784A16.3	SRFBP1	0.889133585	0.017755693
RP11-77G23.2	SRFBP1	0.894158098	0.016210915
AC005944.2	SRFBP1	-0.81974448	0.045809643
RP11-473M20.11	EXO1	-0.843897256	0.034650139
LLNLR-284B4.1	EXO1	-0.846905761	0.033362669
RP11-160E2.19	EXO1	-0.853605723	0.030578218
RP4-784A16.3	ZNF41	0.911590783	0.011378773
RP3-339A18.6	ZNF41	0.879916131	0.02076439
RP11-21J18.1	ZNF41	0.822878589	0.044279665
RP11-165D6.1	ZNF41	0.821368445	0.045013851
RP4-784A16.3	PUS10	0.894793095	0.016020498
CTD-2541M15.3	PUS10	0.901126263	0.014180728
AC005944.2	PUS10	-0.848696666	0.032607178
RP5-1033H22.2	GOLGA6L4	0.879047489	0.021059527
RP11-21J18.1	GOLGA6L4	0.818848624	0.046251416
RP11-298J23.8	GOLGA6L4	0.851968912	0.031247887
RP11-165D6.1	GOLGA6L4	0.875846866	0.022164153
RP11-91K8.5	PTH2R	0.889749216	0.017562791

CTD-2541M15.3	COL15A1	0.845861449	0.033806974
AC011558.5	COL15A1	-0.891389844	0.017053657
RP11-770G2.2	TIMM23B	0.906453612	0.012717081
CTD-2621I17.8	GPR153	0.878744668	0.021162883
RP11-770G2.2	FAM109B	0.851037519	0.031632006
LLNLR-284B4.1	C3orf67	-0.893868439	0.016298134
RP11-21J18.1	C3orf67	0.856555017	0.0293889
CTD-2541M15.3	PEX11A	0.840831902	0.035985504
RP11-91K8.5	PEX11A	0.901156864	0.014172101
RP11-473M20.11	POLE2	-0.856054191	0.029589287
CTD-2139B15.2	POLE2	0.871887921	0.023567724
RP11-160E2.19	POLE2	-0.859132796	0.0283677
CTB-31O20.6	C2	0.859304138	0.028300428
LLNLR-284B4.1	ATAD5	-0.860249847	0.02793049
RP11-77G23.2	ATAD5	0.891914145	0.016892469
RP11-770G2.2	MIR3187	0.812674057	0.049349785
CTB-31O20.6	MIR3187	0.833363779	0.039337899
LLNLR-284B4.1	API5P1	-0.81663585	0.047351045
RP11-21J18.1	API5P1	0.859104007	0.02837901
RP4-784A16.3	PLS1	0.851000805	0.031647192
CTD-2541M15.3	PLS1	0.916958785	0.010057445
CTD-2541M15.3	KIAA1328	0.816135807	0.047601202
RP11-66D17.5	KIAA1328	-0.833594481	0.039232245
RP3-438O4.4	KIAA1328	-0.840745322	0.036023566
NUP50-AS1	KIAA1328	-0.842627674	0.035200328
PSMD5-AS1	KIAA1328	-0.844709244	0.034300393
TOPORS-AS1	KIAA1328	-0.866567325	0.025518582
AC087294.2	KIAA1328	-0.841198187	0.03582469
AP001062.8	KIAA1328	-0.827138865	0.042238829
RP11-455F5.3	KIAA1328	-0.835439476	0.038392086
RP11-326C3.2	KIAA1328	-0.850123917	0.032010939
AP006621.8	KIAA1328	-0.837589607	0.037423743
JHDM1D-AS1	KIAA1328	-0.840563897	0.036103384
RP11-20I23.6	KIAA1328	-0.869045741	0.024600658
RP11-160E2.19	KIAA1328	-0.87089967	0.023924492
AC005786.7	KIAA1328	-0.880955425	0.02041389
AC005944.2	KIAA1328	-0.880993779	0.020401009
CTB-191K22.5	KIAA1328	-0.841882208	0.035525284
RP11-20I23.8	KIAA1328	-0.846113653	0.03369942
CDC37L1-AS1	KIAA1328	-0.850681226	0.031779531
RP5-1142A6.10	KIAA1328	-0.893124599	0.016523143
RP11-556I13.1	KIAA1328	-0.840721163	0.03603419
AC011558.5	KIAA1328	-0.831649559	0.040127123
RP3-339A18.6	WT1-AS	0.911212019	0.011474987
RP11-21J18.1	WT1-AS	0.832443835	0.039760527
CTD-2531D15.5	ZNF416	0.823867844	0.043801771
CTB-31O20.6	ZNF416	0.836809542	0.037773716
CTD-2139B15.2	ZNF416	0.833359439	0.039339888
RP3-438O4.4	ZNF416	-0.823780559	0.04384384
PSMD5-AS1	ZNF416	-0.900453765	0.014370955
AC087294.2	ZNF416	-0.859104148	0.028378955
AP001062.8	ZNF416	-0.822485945	0.044470016
RP11-455F5.3	ZNF416	-0.87411934	0.022771562
AP006621.8	ZNF416	-0.914349763	0.010689781
JHDM1D-AS1	ZNF416	-0.877102028	0.021727747
RP11-20I23.6	ZNF416	-0.882428628	0.019921945
AC005786.7	ZNF416	-0.836887074	0.037738863
AC005944.2	ZNF416	-0.835331145	0.038441181
RP11-20I23.8	ZNF416	-0.879566392	0.020882981
CDC37L1-AS1	ZNF416	-0.841827303	0.035549273
RP5-1142A6.10	ZNF416	-0.869120414	0.02457325
RP11-556I13.1	ZNF416	-0.877165631	0.021705743
AC011558.5	ZNF416	-0.913759143	0.010835521

LLNLR-284B4.1	TCTN1	-0.836900585	0.037732791
RP11-160E2.19	TCTN1	-0.812130479	0.049627012
AC011558.5	TCTN1	-0.891437633	0.017038935
RP3-337H4.8	GPNUMB	0.883952678	0.019419068
MIR210HG	GPNUMB	0.825511542	0.043013076
RP11-770G2.2	FAM20C	0.82748031	0.04207721
CTB-31O20.6	FAM20C	0.915465264	0.010417135
CTB-31O20.6	FOLR2	0.855433521	0.029838519
AC005943.6	FOLR2	0.888529315	0.017946019
RP11-156P1.3	NUFIP1	0.8204939	0.045441597
RP11-126K1.8	NUFIP1	-0.895434583	0.015829234
RP3-438O4.4	NUFIP1	-0.847794905	0.032986565
NUP50-AS1	NUFIP1	-0.874165746	0.022755143
TOPORS-AS1	NUFIP1	-0.822055652	0.044679055
AC087294.2	NUFIP1	-0.895507687	0.015807508
AP001062.8	NUFIP1	-0.886844177	0.018481923
RP11-455F5.3	NUFIP1	-0.910187598	0.011737176
JHDM1D-AS1	NUFIP1	-0.898185242	0.015021649
RP11-20I23.6	NUFIP1	-0.906627746	0.012670539
AC005786.7	NUFIP1	-0.874509395	0.022633732
CTB-191K22.5	NUFIP1	-0.877919798	0.021445648
RP11-20I23.8	NUFIP1	-0.904713069	0.013186815
CDC37L1-AS1	NUFIP1	-0.859306412	0.028299536
RP5-1142A6.10	NUFIP1	-0.896506015	0.015512245
RP11-556I13.1	NUFIP1	-0.897848062	0.015119549
AC011558.5	NUFIP1	-0.860553067	0.027812367
RP11-473M20.11	WDR76	-0.878224708	0.021340916
CTD-2139B15.2	WDR76	0.815690288	0.047824598
CTD-2541M15.3	WDR76	0.862144625	0.027196248
RP11-160E2.19	WDR76	-0.823600185	0.043930835
AC011558.5	WDR76	-0.907323809	0.012485322
LLNLR-284B4.1	KIF14	-0.874562178	0.022615111
RP4-784A16.3	KIF14	0.813793267	0.048781253
CTD-2541M15.3	KIF14	0.897212053	0.015305047
RP11-160E2.19	KIF14	-0.832206032	0.039870119
AC005944.2	KIF14	-0.834266798	0.038925103
RP5-1142A6.10	KIF14	-0.817383504	0.046978158
AC011558.5	KIF14	-0.85295838	0.030842246
CCDC144NL-AS1	NEK3	0.903616675	0.01348693
CTD-2531D15.5	NEK3	0.860552302	0.027812664
CTA-315H11.2	NEK3	0.892114096	0.016831191
PSMD5-AS1	NEK3	-0.89050396	0.017327679
RP11-455F5.3	NEK3	-0.824863575	0.043323191
RP11-326C3.2	NEK3	-0.881789946	0.020134514
AP006621.8	NEK3	-0.895271829	0.015877656
RP11-20I23.6	NEK3	-0.834132816	0.038986221
AC005944.2	NEK3	-0.851884776	0.031282495
RP11-20I23.8	NEK3	-0.820186034	0.045592625
RP5-1142A6.10	NEK3	-0.838357817	0.037080584
AC011558.5	NEK3	-0.912418527	0.011169874
CCDC144NL-AS1	FAM127C	0.912039753	0.011265233
CTD-2531D15.5	FAM127C	0.837573495	0.037430956
RP11-156P1.3	FAM127C	0.909406518	0.01193901
CTB-31O20.6	FAM127C	0.825628667	0.042957131
RP11-126K1.8	FAM127C	-0.861685211	0.027373422
NUP50-AS1	FAM127C	-0.812198111	0.04959248
PSMD5-AS1	FAM127C	-0.903898207	0.013409555
AC087294.2	FAM127C	-0.829547443	0.041104941
AP001062.8	FAM127C	-0.829561245	0.041098485
RP11-455F5.3	FAM127C	-0.847588444	0.033073718
RP11-326C3.2	FAM127C	-0.862660618	0.026997904
AP006621.8	FAM127C	-0.902899022	0.013685137
JHDM1D-AS1	FAM127C	-0.830130539	0.040832605

RP11-20I23.6	FAM127C	-0.828665867	0.041518288
RP11-160E2.19	FAM127C	-0.865905585	0.025766372
AC005944.2	FAM127C	-0.874288114	0.022711875
CTB-191K22.5	FAM127C	-0.824167018	0.043657721
RP11-20I23.8	FAM127C	-0.836482326	0.037920975
RP11-556I13.1	FAM127C	-0.829628383	0.041067087
RP4-784A16.3	ADAMTS3	0.879075498	0.021049979
RP3-339A18.6	ADAMTS3	0.846288041	0.033625145
RP3-337H4.8	A4GALT	0.88015254	0.020684411
LLNLR-284B4.1	IRF6	-0.812560566	0.049407607
RP11-91K8.5	IRF6	0.881048117	0.020382768
RP11-160E2.19	IRF6	-0.819022206	0.046165664
CTD-2541M15.3	ERRFI1	0.835692019	0.038277748
RP11-473M20.11	GINS1	-0.840081877	0.036315851
LLNLR-284B4.1	GINS1	-0.861405552	0.027481541
CTD-2541M15.3	GINS1	0.900121002	0.014465534
RP11-160E2.19	GINS1	-0.866654493	0.025486027
RP4-784A16.3	AXL	0.846782398	0.03341501
RP3-339A18.6	AXL	0.816722245	0.047307886
CTD-2621I17.8	AXL	0.855558711	0.029788169
RP3-337H4.8	PIF1	0.870302265	0.024141398
MIR210HG	PIF1	0.855621111	0.029763087
CTD-2139B15.2	PIF1	0.902249581	0.013865707
RP11-91K8.5	PIF1	0.837395918	0.037510498
AC011558.5	PIF1	-0.832599533	0.03968885
LLNLR-284B4.1	ZNF367	-0.886295696	0.018657981
RP11-77G23.2	ZNF367	0.872967531	0.023180895
AC011558.5	ZNF367	-0.850243776	0.031961104
RP5-1033H22.2	AKAP4	0.883357722	0.019614648
RP3-339A18.6	AKAP4	0.881801685	0.020130598
RP11-21J18.1	AKAP4	0.849220683	0.032387665
RP11-298J23.8	AKAP4	0.883429397	0.019591036
RP11-165D6.1	AKAP4	0.881568252	0.020208552
CTA-315H11.2	C19orf39	0.889366416	0.017682619
RP11-126K1.8	C19orf39	-0.821509535	0.044945019
RP3-438O4.4	C19orf39	-0.84796915	0.032913096
PSMD5-AS1	C19orf39	-0.845207394	0.034086653
TOPORS-AS1	C19orf39	-0.834521538	0.038809024
AC087294.2	C19orf39	-0.861853848	0.027308324
AP001062.8	C19orf39	-0.836934118	0.037717723
RP11-455F5.3	C19orf39	-0.870556001	0.024049158
RP11-326C3.2	C19orf39	-0.886721466	0.018521243
AP006621.8	C19orf39	-0.863483661	0.026682958
JHDM1D-AS1	C19orf39	-0.875492871	0.022287981
RP11-20I23.6	C19orf39	-0.860358684	0.027888064
RP11-160E2.19	C19orf39	-0.840669003	0.036057132
AC005786.7	C19orf39	-0.828888701	0.041413625
RMRP	C19orf39	-0.858839598	0.028482989
RP11-20I23.8	C19orf39	-0.871363312	0.023756795
CDC37L1-AS1	C19orf39	-0.847784657	0.032990888
RP5-1142A6.10	C19orf39	-0.83586437	0.038199809
RP11-556I13.1	C19orf39	-0.87558845	0.022254515
RP3-337H4.8	RAD54L	0.861688032	0.027372333
CTD-2139B15.2	RAD54L	0.912593571	0.011125938
CCDC144NL-AS1	CITED1	0.873404407	0.023025228
RP11-770G2.2	CITED1	0.814333352	0.048507996
CTA-315H11.2	CITED1	0.876518073	0.021930267
RP11-91K8.5	DEPDC1	0.888975052	0.017805532
RP4-784A16.3	MS4A4E	0.819647342	0.045857449
RP11-21J18.1	MS4A4E	0.862360579	0.027113153
RP11-298J23.8	MS4A4E	0.90601319	0.012835163
CTA-315H11.2	ADAL	0.85252268	0.031020557
CTD-2541M15.3	ADAL	0.872173248	0.023465194

PSMD5-AS1	ADAL	-0.851436483	0.031467196
RP11-326C3.2	ADAL	-0.868098487	0.024949602
AP006621.8	ADAL	-0.857124178	0.029161953
RP11-20I23.6	ADAL	-0.824868902	0.043320638
AC005944.2	ADAL	-0.825821579	0.042865061
RP5-1142A6.10	ADAL	-0.846812422	0.033402268
RP11-770G2.2	SULT1A4	0.904441939	0.013260728
CTB-31O20.6	SULT1A4	0.851737923	0.031342943
AC005943.6	SULT1A4	0.915252211	0.010468944
CTD-2139B15.2	WDR62	0.883907623	0.019433846
AC011558.5	WDR62	-0.839576686	0.036539161
CTD-2541M15.3	CNTLN	0.910466822	0.011665427
RP11-160E2.19	CNTLN	-0.837336606	0.037537083
AC011558.5	CNTLN	-0.903548628	0.013505664
RP3-337H4.8	RHEBL1	0.867720053	0.02508966
MIR210HG	RHEBL1	0.875031697	0.022449795
CTD-2139B15.2	RHEBL1	0.857586628	0.028978169
RP11-770G2.2	CGREF1	0.898578889	0.014907742
RP11-156P1.3	CGREF1	0.829063081	0.041331806
CTB-31O20.6	CGREF1	0.819410616	0.04597405
CTA-315H11.2	CGREF1	0.83988886	0.036401095
CCDC144NL-AS1	ECE2	0.860441424	0.027855831
CTD-2531D15.5	ECE2	0.898344271	0.014975581
CTB-31O20.6	ECE2	0.844365119	0.034448413
CTD-2139B15.2	ECE2	0.876990428	0.021766381
RP11-91K8.5	RPS6KA2	0.828043935	0.041811058
RP11-473M20.11	RPS4Y1	-0.870582582	0.024039504
RP11-160E2.19	RPS4Y1	-0.820952775	0.045216923
RP4-784A16.3	SPRED1	0.839431043	0.036603659
CTC-1337H24.3	SPRED1	-0.816257996	0.047540018
RP11-91K8.5	LGR4	0.817826742	0.046757743
RP11-770G2.2	FXVD2	0.845247431	0.034069501
CTB-31O20.6	FXVD2	0.894124009	0.016221168
RP11-473M20.11	EPCAM	-0.839560236	0.036546443
LLNLR-284B4.1	EPCAM	-0.893845351	0.016305096
RP11-77G23.2	EPCAM	0.822506292	0.044460142
CTD-2541M15.3	EPCAM	0.891815902	0.016922616
RP11-160E2.19	EPCAM	-0.848036418	0.032884753
CTA-315H11.2	ZNF845	0.839045099	0.036774833
RP11-66D17.5	ZNF845	-0.878131347	0.021372958
RP11-126K1.8	ZNF845	-0.858024996	0.028804465
NUP50-AS1	ZNF845	-0.914861098	0.010564379
PSMD5-AS1	ZNF845	-0.911583066	0.011380729
AP001062.8	ZNF845	-0.910118395	0.011754991
AP006621.8	ZNF845	-0.914056663	0.010761986
AC005944.2	ZNF845	-0.909717876	0.011858354
CTB-191K22.5	ZNF845	-0.894792096	0.016020797
AC011558.5	ZNF845	-0.886929651	0.018454559
CTD-2541M15.3	SPATA7	0.912987139	0.01102746
RP11-91K8.5	SPATA7	0.831087713	0.040387393
RP11-160E2.19	SPATA7	-0.829817852	0.040978541
AC011558.5	SPATA7	-0.830811749	0.040515518
CTA-315H11.2	PHOSPHO2	0.837720274	0.037365269
RP11-77G23.2	PHOSPHO2	0.883740363	0.019488755
PSMD5-AS1	PHOSPHO2	-0.888771724	0.017869551
AC087294.2	PHOSPHO2	-0.817309035	0.047015237
RP11-455F5.3	PHOSPHO2	-0.826571086	0.042508221
RP11-326C3.2	PHOSPHO2	-0.872986949	0.023173965
AP006621.8	PHOSPHO2	-0.883252157	0.019649448
JHDM1D-AS1	PHOSPHO2	-0.817738307	0.046801682
RP11-20I23.6	PHOSPHO2	-0.854590566	0.030178594
AC005786.7	PHOSPHO2	-0.839833746	0.036425453
AC005944.2	PHOSPHO2	-0.902881642	0.013689954

RP11-20I23.8	PHOSPHO2	-0.828629801	0.041535239
RP5-1142A6.10	PHOSPHO2	-0.877544398	0.021574928
RP11-556I13.1	PHOSPHO2	-0.817536826	0.046901859
LLNLR-284B4.1	C3orf25	-0.83259242	0.039692123
RP11-77G23.2	C3orf25	0.886152537	0.018704065
CTD-2541M15.3	C3orf25	0.81591148	0.047713625
NUP50-AS1	C3orf25	-0.835200402	0.038500473
PSMD5-AS1	C3orf25	-0.878785187	0.02114904
TOPORS-AS1	C3orf25	-0.857143244	0.029154365
AC087294.2	C3orf25	-0.831473737	0.040208486
AP001062.8	C3orf25	-0.820321323	0.045526229
RP11-455F5.3	C3orf25	-0.83614688	0.038072216
RP11-326C3.2	C3orf25	-0.875459081	0.022299819
AP006621.8	C3orf25	-0.874045675	0.022797637
JHDM1D-AS1	C3orf25	-0.828228892	0.04172389
RP11-20I23.6	C3orf25	-0.869955777	0.024267629
AC005786.7	C3orf25	-0.869659618	0.024375772
AC005944.2	C3orf25	-0.896389279	0.015546632
CTB-191K22.5	C3orf25	-0.821690447	0.044856831
RP11-20I23.8	C3orf25	-0.838064513	0.037211428
RP5-1142A6.10	C3orf25	-0.905115083	0.01307759
RP11-556I13.1	C3orf25	-0.82807176	0.041797939
RP3-337H4.8	ZNF273	0.851859085	0.031293066
RP11-91K8.5	ZNF273	0.888723732	0.017884678
RP11-77G23.2	ARL6	0.816624135	0.047356898
CTD-2541M15.3	ARL6	0.82619152	0.042688758
AC005786.7	ARL6	-0.817533416	0.046903555
AC005944.2	ARL6	-0.835690563	0.038278407
RP5-1142A6.10	ARL6	-0.825782888	0.042883519
RP11-118G23.2	PTPRR	0.854344194	0.030278332
CTC-1337H24.3	PTPRR	-0.837895557	0.037286898
CCDC144NL-AS1	AMHR2	0.879481541	0.020911801
CTD-2531D15.5	AMHR2	0.906131973	0.012803264
RP11-770G2.2	AMHR2	0.814324235	0.048512603
CTD-2139B15.2	AMHR2	0.84001541	0.036345195
AC011558.5	AMHR2	-0.861436339	0.027469629
CCDC144NL-AS1	BRCA2	0.847355026	0.033172381
CTA-315H11.2	BRCA2	0.837873647	0.03729669
RP3-438O4.4	BRCA2	-0.824361963	0.043563976
PSMD5-AS1	BRCA2	-0.854028451	0.030406381
TOPORS-AS1	BRCA2	-0.872853642	0.023221558
AC087294.2	BRCA2	-0.846272441	0.033631786
AP001062.8	BRCA2	-0.814456243	0.048445919
RP11-455F5.3	BRCA2	-0.853602048	0.030579714
RP11-326C3.2	BRCA2	-0.901793088	0.013993313
AP006621.8	BRCA2	-0.867893954	0.025025253
JHDM1D-AS1	BRCA2	-0.85764823	0.02895373
RP11-20I23.6	BRCA2	-0.876423707	0.021963077
RP11-160E2.19	BRCA2	-0.913185009	0.010978108
AC005786.7	BRCA2	-0.856478048	0.029419654
RP11-20I23.8	BRCA2	-0.859516462	0.028217172
CDC37L1-AS1	BRCA2	-0.822677058	0.044377318
RP5-1142A6.10	BRCA2	-0.888955464	0.017811694
RP11-556I13.1	BRCA2	-0.8577828	0.028900374
AC011558.5	BRCA2	-0.906439431	0.012720875
LLNLR-284B4.1	IDE	-0.91067088	0.011613128
RP4-784A16.3	IDE	0.863078501	0.026837778
RP11-21J18.1	IDE	0.880626242	0.020524597
RP11-165D6.1	IDE	0.81378816	0.04878384
CTD-2621I17.8	IDE	0.841237374	0.035807506
RP11-77G23.2	IDE	0.892084075	0.016840384
CTA-315H11.2	PGBD1	0.831951175	0.039987728
RP11-77G23.2	PGBD1	0.831441163	0.040223568

PSMD5-AS1	PGBD1	-0.846041357	0.033730234
RP11-326C3.2	PGBD1	-0.82868336	0.041510067
AP006621.8	PGBD1	-0.840878768	0.035964909
RP11-160E2.19	PGBD1	-0.895848224	0.015706491
AC005944.2	PGBD1	-0.8577767033	0.028906623
RP5-1142A6.10	PGBD1	-0.820005438	0.045681328
AC011558.5	PGBD1	-0.888677221	0.017899343
RP4-784A16.3	COL4A5	0.861206137	0.02755876
CTD-2541M15.3	COL4A5	0.874577768	0.022609612
LLNLR-284B4.1	GSTCD	-0.855790765	0.029694946
RP11-118G23.2	USP46	0.860347232	0.027892527
CTC-1337H24.3	USP46	-0.825269494	0.043128798
RP11-66D17.5	USP46	-0.816014992	0.047661734
LL21NC02-21A1.1	USP46	-0.84628817	0.03362509
CCDC144NL-AS1	ZNF726	0.905999743	0.012838777
CTB-31O20.6	ZNF726	0.825351692	0.043089483
RP11-126K1.8	ZNF726	-0.868625337	0.024755236
RP3-438O4.4	ZNF726	-0.892305199	0.016772724
NUP50-AS1	ZNF726	-0.871368801	0.023754813
TOPORS-AS1	ZNF726	-0.864851128	0.026163565
AP001062.8	ZNF726	-0.890983398	0.017179119
AC005786.7	ZNF726	-0.90080217	0.01427225
AC005944.2	ZNF726	-0.906407431	0.012729438
CTB-191K22.5	ZNF726	-0.869560966	0.024411845
CDC37L1-AS1	ZNF726	-0.909817923	0.011832494
AC011558.5	ZNF726	-0.889167299	0.017745103
NUP50-AS1	ITGB5	-0.813895491	0.048729478
TOPORS-AS1	ITGB5	-0.865357391	0.025972505
AC087294.2	ITGB5	-0.814172243	0.048589435
RP11-455F5.3	ITGB5	-0.814971845	0.048185869
RP11-326C3.2	ITGB5	-0.826790805	0.042403876
RP11-20I23.6	ITGB5	-0.831490074	0.040200923
AC005786.7	ITGB5	-0.838031177	0.037226313
RP11-20I23.8	ITGB5	-0.813173946	0.049095476
RP5-1142A6.10	ITGB5	-0.854290779	0.030299977
RP11-473M20.11	C1orf198	-0.834442596	0.038844978
RP11-77G23.2	C1orf198	0.847113266	0.033274716
CTD-2541M15.3	C1orf198	0.879374827	0.020948074
RP11-160E2.19	C1orf198	-0.811952986	0.04971769
CTD-2531D15.5	ACTR3B	0.871293333	0.02378207
CTA-315H11.2	ACTR3B	0.901281961	0.014136861
CTD-2139B15.2	ACTR3B	0.813240524	0.049061651
PSMD5-AS1	ACTR3B	-0.836120424	0.038084156
RP11-326C3.2	ACTR3B	-0.870710505	0.023993073
AP006621.8	ACTR3B	-0.85235387	0.031089773
RP4-784A16.3	XPOTP1	0.866077961	0.025701715
RP11-77G23.2	XPOTP1	0.885847644	0.018802395
RP11-66D17.5	XPOTP1	-0.860823283	0.0277073
RP11-126K1.8	XPOTP1	-0.826572315	0.042507637
NUP50-AS1	XPOTP1	-0.868328602	0.024864619
PSMD5-AS1	XPOTP1	-0.853172159	0.030754935
TOPORS-AS1	XPOTP1	-0.86313952	0.026814434
AC087294.2	XPOTP1	-0.828879853	0.041417778
AP001062.8	XPOTP1	-0.841222232	0.035814145
RP11-455F5.3	XPOTP1	-0.826777782	0.042410058
RP11-326C3.2	XPOTP1	-0.824466825	0.043513588
AP006621.8	XPOTP1	-0.839828406	0.036427813
JHDM1D-AS1	XPOTP1	-0.813204197	0.049080105
RP11-20I23.6	XPOTP1	-0.84838357	0.032738668
RP11-160E2.19	XPOTP1	-0.832526786	0.039722332
AC005786.7	XPOTP1	-0.870194313	0.024180693
AC005944.2	XPOTP1	-0.900597689	0.014330141
CTB-191K22.5	XPOTP1	-0.860027519	0.028017252

RP11-20I23.8	XPOTP1	-0.822208639	0.04460468
RP5-1142A6.10	XPOTP1	-0.883121474	0.01969257
RP11-556I13.1	XPOTP1	-0.812886403	0.049241684
LLNLR-284B4.1	KCTD3	-0.902069116	0.013916086
RP4-784A16.3	KCTD3	0.825390098	0.04307112
RP11-160E2.19	KCTD3	-0.837046256	0.037667353
AC011558.5	KCTD3	-0.871224098	0.023807089
RP11-473M20.11	STEAP3	-0.812954102	0.049207242
CTD-2139B15.2	STEAP3	0.86488752	0.026149809
AC011558.5	WDHD1	-0.848833578	0.032549757
RP5-1033H22.2	CLDN3	0.90291917	0.013679553
RP11-298J23.8	CLDN3	0.876050486	0.022093075
RP11-165D6.1	CLDN3	0.894597486	0.01607904
CCDC144NL-AS1	ZNF205	0.811565328	0.049916005
AC024028.1	SPTA1	-0.825577398	0.042981615
RP3-337H4.8	SPTA1	0.849802277	0.032144852
RP11-91K8.5	SPTA1	0.869033593	0.024605119
LLNLR-284B4.1	PUS7	-0.896857289	0.015408991
RP4-784A16.3	PUS7	0.890892668	0.017207186
CTD-2541M15.3	PUS7	0.91461928	0.010623594
RP11-21J18.1	FNIP2	0.866431344	0.025569407
RP11-91K8.5	ESPL1	0.830686329	0.040573811
RP11-160E2.19	ESPL1	-0.821342152	0.045026684
CTD-2139B15.2	C3orf39	0.887689381	0.018212188
RP11-770G2.2	TUSC1	0.873451547	0.023008461
CTB-31O20.6	TUSC1	0.883870233	0.019446114
PSMD5-AS1	TUSC1	-0.852143585	0.031176096
RP11-455F5.3	TUSC1	-0.815965867	0.047686358
RP11-326C3.2	TUSC1	-0.870447874	0.024088445
AP006621.8	TUSC1	-0.867814296	0.025054746
JHDM1D-AS1	TUSC1	-0.813408345	0.048976439
RP11-160E2.19	TUSC1	-0.889306322	0.017701466
RP11-20I23.8	TUSC1	-0.815799994	0.047769543
RP11-556I13.1	TUSC1	-0.813312872	0.049024908
AC011558.5	TUSC1	-0.839128845	0.036737658
AC005944.2	SAMD4A	-0.851089237	0.031610618
RP11-77G23.2	CEP152	0.852035747	0.031220408
CTD-2541M15.3	CEP152	0.905832293	0.012883817
AC011558.5	CEP152	-0.90927485	0.011973198
RP4-784A16.3	EPS8	0.912446712	0.011162794
RP11-66D17.5	EPS8	-0.838112454	0.037190026
NUP50-AS1	EPS8	-0.843499878	0.034821909
PSMD5-AS1	EPS8	-0.842627781	0.035200282
TOPORS-AS1	EPS8	-0.815980362	0.047679091
AP001062.8	EPS8	-0.814701417	0.048322181
AP006621.8	EPS8	-0.826228148	0.04267132
RP11-20I23.6	EPS8	-0.819084601	0.046134857
RP11-160E2.19	EPS8	-0.819483229	0.04593827
AC005786.7	EPS8	-0.837625361	0.037407739
AC005944.2	EPS8	-0.897683609	0.015167409
CTB-191K22.5	EPS8	-0.842090093	0.035434524
RP5-1142A6.10	EPS8	-0.85356607	0.03059436
AC011558.5	MMS22L	-0.853339528	0.03068666
RP5-1033H22.2	PHF16	0.911766236	0.011334337
RP4-784A16.3	PHF16	0.890258234	0.017404059
RP3-339A18.6	PHF16	0.884125904	0.0193623
RP11-21J18.1	PHF16	0.905055104	0.013093858
RP11-298J23.8	PHF16	0.894938074	0.015977175
AC005944.2	C7orf10	-0.868018351	0.024979229
RP4-784A16.3	ZNF323	0.814130056	0.04861077
RP11-21J18.1	ZNF323	0.829591431	0.041084366
RP11-77G23.2	ZNF323	0.813469023	0.048945647
RP5-1142A6.10	ZNF323	-0.81352329	0.048918115

MIR210HG	CBS	0.856771412	0.029302517
RP11-91K8.5	CBS	0.851595863	0.031401471
MIR210HG	PLEKHH3	0.914427447	0.010670683
RP11-91K8.5	PLEKHH3	0.900264553	0.014424697
CCDC144NL-AS1	C17orf58	0.864189461	0.026414275
CTD-2139B15.2	C17orf58	0.848219027	0.032807871
CTD-2541M15.3	C17orf58	0.830620997	0.040604192
PSMD5-AS1	C17orf58	-0.858767625	0.028511324
RP11-326C3.2	C17orf58	-0.882397233	0.019932369
AP006621.8	C17orf58	-0.869348652	0.024489567
JHDM1D-AS1	C17orf58	-0.811890267	0.04974975
RP11-20I23.6	C17orf58	-0.831507371	0.040192916
RP11-20I23.8	C17orf58	-0.817836194	0.046753048
RP5-1142A6.10	C17orf58	-0.831078836	0.040391511
RP11-556I13.1	C17orf58	-0.811946481	0.049721015
RP11-118G23.2	CFL2	0.870308152	0.024139256
RP11-126K1.8	CFL2	-0.90422756	0.013319311
RP3-438O4.4	CFL2	-0.895101017	0.015928552
PSMD5-AS1	CFL2	-0.860643132	0.027777327
TOPORS-AS1	CFL2	-0.878760953	0.021157319
AC087294.2	CFL2	-0.886056073	0.018735148
AP001062.8	CFL2	-0.909145792	0.012006753
RP11-455F5.3	CFL2	-0.875113631	0.022421006
RP11-326C3.2	CFL2	-0.819634114	0.045863961
AP006621.8	CFL2	-0.8436717	0.034747589
JHDM1D-AS1	CFL2	-0.869234842	0.024531279
RP11-20I23.6	CFL2	-0.871283703	0.023785549
AC005786.7	CFL2	-0.901244893	0.014147299
RP11-20I23.8	CFL2	-0.871717962	0.023628899
CDC37L1-AS1	CFL2	-0.891712864	0.016954263
RP5-1142A6.10	CFL2	-0.87280851	0.023237681
RP11-556I13.1	CFL2	-0.869050096	0.02459906
CTA-315H11.2	ZNF620	0.86783235	0.02504806
CTD-2541M15.3	ZNF620	0.827009369	0.0423002
RP3-438O4.4	ZNF620	-0.845921279	0.033781445
NUP50-AS1	ZNF620	-0.827924632	0.041867329
PSMD5-AS1	ZNF620	-0.883568616	0.019545213
TOPORS-AS1	ZNF620	-0.875846832	0.022164165
AC087294.2	ZNF620	-0.861469751	0.027456704
AP001062.8	ZNF620	-0.8287478	0.04147979
RP11-455F5.3	ZNF620	-0.86434596	0.026354874
RP11-326C3.2	ZNF620	-0.913553344	0.010886528
AP006621.8	ZNF620	-0.887424161	0.018296624
JHDM1D-AS1	ZNF620	-0.871671476	0.023645644
RP11-20I23.6	ZNF620	-0.900614254	0.014325447
AC005786.7	ZNF620	-0.888344615	0.018004388
AC005944.2	ZNF620	-0.87564152	0.022235943
CTB-191K22.5	ZNF620	-0.816151084	0.04759355
RP11-20I23.8	ZNF620	-0.876887565	0.02180202
CDC37L1-AS1	ZNF620	-0.859956362	0.028045047
RP11-556I13.1	ZNF620	-0.871892486	0.023566082
RP11-770G2.2	SPRYD4	0.864031635	0.026474244
CTA-315H11.2	SPRYD4	0.854496279	0.030216745
CTD-2139B15.2	SPRYD4	0.836187571	0.038053855
RP11-160E2.19	SPRYD4	-0.826389067	0.042594752
AC011558.5	SPRYD4	-0.842322596	0.035333145
MIR210HG	GPT2	0.841659418	0.035622673
LA16c-359F1.1	JAG1	0.824602734	0.043448323
RP3-339A18.6	JAG1	0.835135161	0.038530075
CTC-1337H24.3	JAG1	-0.849710905	0.032182942
LL21NC02-21A1.1	JAG1	-0.900801781	0.01427236
AC024028.1	SYN1	0.811764017	0.049814315
RP11-34P13.14	SYN1	0.898478111	0.014936863

RP11-680G24.6	SYN1	0.866213155	0.02565106
LA16c-359F1.1	SYN1	0.90642393	0.012725023
RP11-473M20.11	LONRF3	0.868211273	0.024907932
RP11-680G24.6	LONRF3	0.906970945	0.012579052
RP11-34P13.14	ADRA2A	0.872985403	0.023174517
RP11-93O14.2	ADRA2A	0.834766594	0.03869751
RP11-118G23.2	ADRA2A	0.896390679	0.01554622
LA16c-359F1.1	ADRA2A	0.831195101	0.040337585
Z69720.3	ADRA2A	0.854778034	0.030102805
RP3-339A18.6	ADRA2A	0.830316076	0.040746127
CCDC144NL-AS1	N6AMT2	0.828468912	0.041610899
CTD-2139B15.2	N6AMT2	0.851536514	0.031425938
RP11-160E2.19	N6AMT2	-0.835898787	0.038184254
AC011558.5	N6AMT2	-0.88757954	0.018247135
AC024028.1	L1CAM	0.873216418	0.02309215
RP11-485G7.6	L1CAM	0.916741376	0.010109423
RP11-118G23.2	L1CAM	0.831381679	0.040251118
LLNLR-284B4.1	NUDT12	-0.88064119	0.020519564
CTD-2541M15.3	NUDT12	0.87405766	0.022793394
PSMD5-AS1	NUDT12	-0.83078516	0.040527873
RP11-326C3.2	NUDT12	-0.822568734	0.044429849
AP006621.8	NUDT12	-0.823102255	0.044171404
RP11-20123.6	NUDT12	-0.818608947	0.046369942
RP11-160E2.19	NUDT12	-0.886144793	0.018706559
AC005786.7	NUDT12	-0.820976013	0.04520556
AC005944.2	NUDT12	-0.862377348	0.027106706
RP5-1142A6.10	NUDT12	-0.859924138	0.028057639
AC011558.5	NUDT12	-0.908741746	0.012112101
RP4-784A16.3	EFCAB4B	0.856761036	0.029306655
RP11-126K1.8	EFCAB4B	-0.849712506	0.032182275
NUP50-AS1	EFCAB4B	-0.83081598	0.040513552
PSMD5-AS1	EFCAB4B	-0.863470896	0.02668783
AP001062.8	EFCAB4B	-0.817741084	0.046800302
AP006621.8	EFCAB4B	-0.850520657	0.031846122
AC005944.2	EFCAB4B	-0.88649794	0.018592969
CTB-191K22.5	EFCAB4B	-0.833996361	0.039048514
RP11-118G23.2	CPNE8	0.879825705	0.020795021
CTC-1337H24.3	CPNE8	-0.815000561	0.048171405
CTB-31O20.6	RNASE1	0.832136773	0.039902064
AC005943.6	RNASE1	0.837924964	0.037273757
CCDC144NL-AS1	PNMT	0.857257077	0.029109081
RP11-770G2.2	PNMT	0.869389002	0.024474787
CTD-2139B15.2	PNMT	0.841665903	0.035619836
RP3-337H4.8	IL15RA	0.897394766	0.015251646
MIR210HG	IL15RA	0.840935357	0.035940049
RP11-91K8.5	IL15RA	0.893605212	0.01637759
AC011558.5	IL15RA	-0.814890861	0.048226671
RP11-498J9.2	LOXL3	0.823478708	0.043989469
RP11-485G7.6	LOXL3	0.898825561	0.014836576
RMRP	LOXL3	-0.825125313	0.043197799
RP11-498J9.2	NBPF12	0.876755319	0.02184788
RP11-93O14.2	NBPF12	0.91416992	0.010734057
RP11-485G7.6	NBPF12	0.830344329	0.040732967
RP11-118G23.2	NBPF12	0.878731342	0.021167437
RP11-78A19.3	NBPF12	0.887843521	0.018163201
LA16c-359F1.1	NBPF12	0.905774354	0.012899419
RP11-156P1.3	DIAPH2	0.842664116	0.035184479
RP11-118G23.2	ELL3	0.847766417	0.032998584
RP11-680G24.6	ELL3	0.828202806	0.041736179
RP11-126K1.8	ELL3	-0.8635283	0.026665927
RP3-438O4.4	ELL3	-0.915496022	0.010409665
NUP50-AS1	ELL3	-0.906818462	0.01261966
AC087294.2	ELL3	-0.878778732	0.021151245

AP001062.8	ELL3	-0.892546453	0.016699054
RP11-455F5.3	ELL3	-0.860623251	0.02778506
JHDM1D-AS1	ELL3	-0.866908387	0.025391315
RP11-20I23.6	ELL3	-0.859180068	0.028349133
AC005786.7	ELL3	-0.898712232	0.014869252
AC005944.2	ELL3	-0.827192987	0.042213191
CTB-191K22.5	ELL3	-0.900171639	0.014451123
RP11-20I23.8	ELL3	-0.862901134	0.026905687
CDC37L1-AS1	ELL3	-0.902246593	0.01386654
LL21NC02-21A1.1	ELL3	-0.887768838	0.018186928
RP5-1142A6.10	ELL3	-0.859713951	0.028139836
RP11-556I13.1	ELL3	-0.867046387	0.025339907
AC024028.1	ALCAM	0.842956373	0.035057491
RP11-34P13.14	ALCAM	0.88825304	0.018033361
RP11-78A19.3	ALCAM	0.904555403	0.013229772
LA16c-359F1.1	ALCAM	0.817672733	0.046834275
CCDC144NL-AS1	IGF2BP1	0.815320481	0.048010399
CTA-315H11.2	IGF2BP1	0.890197862	0.017422849
RP11-77G23.2	IGF2BP1	0.827049223	0.042281308
CTD-2541M15.3	IGF2BP1	0.819962127	0.045702613
RP11-66D17.5	IGF2BP1	-0.847121042	0.033271422
RP11-126K1.8	IGF2BP1	-0.879131435	0.021030918
RP3-438O4.4	IGF2BP1	-0.865861306	0.025782992
NUP50-AS1	IGF2BP1	-0.899088208	0.014760983
TOPORS-AS1	IGF2BP1	-0.890251267	0.017406227
AC087294.2	IGF2BP1	-0.904458	0.013256344
AP001062.8	IGF2BP1	-0.895043657	0.01594566
RP11-455F5.3	IGF2BP1	-0.912652049	0.011111279
JHDM1D-AS1	IGF2BP1	-0.903069547	0.013637913
CTB-191K22.5	IGF2BP1	-0.892438379	0.016732036
RP11-20I23.8	IGF2BP1	-0.911446817	0.011415297
CDC37L1-AS1	IGF2BP1	-0.870188549	0.024182792
RP11-556I13.1	IGF2BP1	-0.902837259	0.01370226
RP11-473M20.11	GINS3	-0.848103928	0.03285632
CCDC144NL-AS1	GINS3	0.832450109	0.039757638
CTD-2531D15.5	GINS3	0.820222586	0.045574682
CTA-315H11.2	GINS3	0.827211137	0.042204595
CTD-2139B15.2	GINS3	0.849702742	0.032186346
RP11-160E2.19	GINS3	-0.872110105	0.023487866
CTD-2541M15.3	OTUD3	0.897054342	0.015351214
RP11-498J9.2	TNFRSF11A	0.818941781	0.046205386
RP11-34P13.14	TNFRSF11A	0.89697798	0.015373591
RP11-93O14.2	TNFRSF11A	0.8558881	0.029655884
RP11-118G23.2	TNFRSF11A	0.867057461	0.025335783
RP11-78A19.3	TNFRSF11A	0.822067098	0.044673488
LA16c-359F1.1	TNFRSF11A	0.830614488	0.040607219
Z69720.3	TNFRSF11A	0.881006641	0.020396691
RP11-473M20.11	CDC6	-0.868842694	0.024675259
CTD-2139B15.2	CDC6	0.812726402	0.049323127
RP11-160E2.19	CDC6	-0.867936174	0.025009628
RP11-770G2.2	CRYBB1	0.861420605	0.027475716
CTA-315H11.2	DSCC1	0.820738231	0.045321904
CTD-2541M15.3	DSCC1	0.848382862	0.032738966
RP11-91K8.5	DSCC1	0.817741896	0.046799898
RP11-326C3.2	DSCC1	-0.82050767	0.045434848
RP11-160E2.19	DSCC1	-0.911166442	0.011486591
RP11-118G23.2	GPR180	0.840799067	0.035999937
RP4-784A16.3	GPR180	0.869287052	0.02451214
RP3-339A18.6	GPR180	0.85631976	0.029482949
RP11-66D17.5	GPR180	-0.821743884	0.044830799
RP11-680G24.6	ZNF461	0.907996774	0.012307505
LA16c-359F1.1	ZNF461	0.867464244	0.025184547
RP11-126K1.8	ZNF461	-0.848623635	0.032637826

RP3-438O4.4	ZNF461	-0.827210011	0.042205129
NUP50-AS1	ZNF461	-0.865346725	0.025976524
AP001062.8	ZNF461	-0.840932692	0.03594122
AC005786.7	ZNF461	-0.813019416	0.049174025
CTB-191K22.5	ZNF461	-0.877870549	0.021462587
CDC37L1-AS1	ZNF461	-0.812272415	0.049554555
RP11-118G23.2	SAMD13	0.815367358	0.047986828
RP4-784A16.3	SAMD13	0.911027984	0.011521877
CTC-1337H24.3	SAMD13	-0.820887573	0.045248816
RP11-77G23.2	SAMD13	0.890618483	0.017292137
RP11-66D17.5	SAMD13	-0.882857019	0.019779971
RP11-126K1.8	SAMD13	-0.850535256	0.031840065
NUP50-AS1	SAMD13	-0.867826198	0.025050338
PSMD5-AS1	SAMD13	-0.845933038	0.033776428
AP001062.8	SAMD13	-0.838494961	0.037019478
AP006621.8	SAMD13	-0.825098748	0.043210518
RP11-20I23.6	SAMD13	-0.813611568	0.048873344
AC005786.7	SAMD13	-0.836630779	0.037854132
AC005944.2	SAMD13	-0.911365516	0.011435948
CTB-191K22.5	SAMD13	-0.876884784	0.021802984
LL21NC02-21A1.1	SAMD13	-0.878545862	0.02123087
RP5-1142A6.10	SAMD13	-0.836187397	0.038053933
AC024028.1	MFSD4	0.904142557	0.013342574
RP11-473M20.11	MFSD4	0.830274119	0.040765676
RP11-680G24.6	MFSD4	0.899744839	0.014572809
LLNLR-284B4.1	BRCA1	-0.874524496	0.022628404
CTD-2541M15.3	BRCA1	0.870693476	0.023999252
RP11-91K8.5	BRCA1	0.819895022	0.0457356
RP11-160E2.19	BRCA1	-0.861776044	0.027338349
CTB-31O20.6	LILRB4	0.884468144	0.019250378
AC005943.6	LILRB4	0.850369027	0.031909066
LLNLR-284B4.1	TNFRSF19	-0.902086457	0.013911241
CTD-2541M15.3	TNFRSF19	0.854787391	0.030099025
LLNLR-284B4.1	CDC42BPA	-0.846579423	0.033501213
RP5-1033H22.2	CDC42BPA	0.831862989	0.04002846
RP4-784A16.3	CDC42BPA	0.869463022	0.024447685
RP11-21J18.1	CDC42BPA	0.899996395	0.014501028
RP11-298J23.8	CDC42BPA	0.829627513	0.041067494
RP11-165D6.1	CDC42BPA	0.864062004	0.0264627
CTD-2621I17.8	CDC42BPA	0.830158685	0.040819481
RP11-77G23.2	CDC42BPA	0.856726478	0.029320444
RP3-337H4.8	SKA1	0.858417536	0.028649339
MIR210HG	SKA1	0.825232848	0.043146331
AC011558.5	SKA1	-0.894370164	0.016147202
RP11-770G2.2	CD163	0.860845181	0.027698794
CTB-31O20.6	CD163	0.812865328	0.049252408
CTD-2139B15.2	CD163	0.830363188	0.040724183
RP11-93O14.2	NKIRAS1	0.818112536	0.046615879
RP11-118G23.2	NKIRAS1	0.884277365	0.019312729
RP11-680G24.6	NKIRAS1	0.893348418	0.016455283
LA16c-359F1.1	NKIRAS1	0.831191449	0.040339278
RP11-66D17.5	NKIRAS1	-0.847131553	0.03326697
LL21NC02-21A1.1	NKIRAS1	-0.89896153	0.014797419
RP11-77G23.2	GINS4	0.844929143	0.034205964
CTD-2541M15.3	GINS4	0.851600905	0.031399393
RP11-160E2.19	GINS4	-0.846446534	0.033557707
LLNLR-284B4.1	CCDC138	-0.821429184	0.044984213
RP11-77G23.2	CCDC138	0.890730178	0.017257506
CTD-2541M15.3	CCDC138	0.881314212	0.020293552
NUP50-AS1	CCDC138	-0.811757778	0.049817507
PSMD5-AS1	CCDC138	-0.850026639	0.032051413
TOPORS-AS1	CCDC138	-0.838895166	0.036841432
RP11-455F5.3	CCDC138	-0.812250811	0.04956558

RP11-326C3.2	CCDC138	-0.851710459	0.031354254
AP006621.8	CCDC138	-0.843798382	0.034692841
RP11-20I23.6	CCDC138	-0.852729604	0.030935812
RP11-160E2.19	CCDC138	-0.905190359	0.013057186
AC005786.7	CCDC138	-0.855957685	0.029627974
AC005944.2	CCDC138	-0.879734794	0.020825838
RP11-20I23.8	CCDC138	-0.819894359	0.045735926
RP5-1142A6.10	CCDC138	-0.888189797	0.018053383
AC011558.5	CCDC138	-0.913518494	0.010895177
LLNLR-284B4.1	FAM124B	-0.858701756	0.028537267
RP11-77G23.2	FAM124B	0.856794749	0.029293208
PSMD5-AS1	FAM124B	-0.825269233	0.043128923
RP11-326C3.2	FAM124B	-0.821742753	0.04483135
AP006621.8	FAM124B	-0.824072123	0.043703389
RP11-160E2.19	FAM124B	-0.910159453	0.01174442
AC005944.2	FAM124B	-0.824934301	0.043289292
RP5-1142A6.10	FAM124B	-0.813182746	0.049091004
RP5-1033H22.2	AKR1C1	0.816901994	0.047218151
RP11-298J23.8	AKR1C1	0.820655922	0.045362209
RP11-165D6.1	AKR1C1	0.82182126	0.044793116
RP11-498J9.2	FAM53A	0.90219632	0.013880566
RP11-34P13.14	FAM53A	0.86818829	0.024916421
RP11-93O14.2	FAM53A	0.911685825	0.011354692
RP11-78A19.3	FAM53A	0.886737313	0.018516163
RP11-680G24.6	FAM53A	0.827045883	0.042282891
LA16c-359F1.1	FAM53A	0.85203568	0.031220436
CTA-315H11.2	MTRF1L	0.849544029	0.032252563
RP11-77G23.2	MTRF1L	0.833344708	0.039346639
PSMD5-AS1	MTRF1L	-0.868679082	0.024735449
RP11-326C3.2	MTRF1L	-0.856827935	0.029279973
AP006621.8	MTRF1L	-0.864536422	0.026282667
RP11-20I23.6	MTRF1L	-0.835013326	0.038585386
AC005786.7	MTRF1L	-0.815088554	0.048127096
AC005944.2	MTRF1L	-0.878065721	0.021395495
RP11-20I23.8	MTRF1L	-0.812740931	0.049315729
RP5-1142A6.10	MTRF1L	-0.851223857	0.03155498
AC011558.5	MTRF1L	-0.911173029	0.011484913
RP11-93O14.2	ZKSCAN2	0.831948926	0.039988766
LA16c-359F1.1	ZKSCAN2	0.882402912	0.019930483
RP11-66D17.5	ZKSCAN2	-0.871169258	0.023826915
LLNLR-284B4.1	PDIK1L	-0.873417974	0.023020401
RP11-77G23.2	PDIK1L	0.876395683	0.021972826
RP11-160E2.19	PDIK1L	-0.851393531	0.03148492
AC011558.5	PDIK1L	-0.912696157	0.011100228
LLNLR-284B4.1	ARHGAP11B	-0.841467405	0.035706709
RP11-77G23.2	ARHGAP11B	0.879452029	0.02092183
TOPORS-AS1	ARHGAP11B	-0.836619454	0.037859229
RP11-20I23.6	ARHGAP11B	-0.817712392	0.046814561
RP11-160E2.19	ARHGAP11B	-0.857370801	0.029063873
AC005786.7	ARHGAP11B	-0.831446079	0.040221292
AC005944.2	ARHGAP11B	-0.831701121	0.040103277
RP5-1142A6.10	ARHGAP11B	-0.864344775	0.026355323
AC011558.5	ARHGAP11B	-0.883568561	0.019545231
RP11-118G23.2	QSER1	0.874300482	0.022707504
RP3-339A18.6	QSER1	0.864960456	0.026122249
CTC-1337H24.3	QSER1	-0.883901002	0.019436018
RP11-66D17.5	QSER1	-0.834301213	0.038909412
AC005944.2	QSER1	-0.817989606	0.046676875
LL21NC02-21A1.1	QSER1	-0.857991828	0.02881759
RP11-473M20.11	PTGER1	0.852651712	0.030967699
RP11-680G24.6	PTGER1	0.914724322	0.010597852
LA16c-359F1.1	PTGER1	0.911548608	0.011389467
RP11-473M20.11	CTTN	-0.869775813	0.024333316

CTD-2541M15.3	CTTN	0.868204938	0.024910271
RP11-160E2.19	CTTN	-0.813226341	0.049068856
CTD-2139B15.2	CDC25C	0.895026937	0.015950649
RP11-91K8.5	CDC25C	0.860376816	0.027880999
RP11-77G23.2	SMC2	0.917147034	0.010012544
AC011558.5	SMC2	-0.89020471	0.017420717
RP11-93O14.2	STAC	0.86268442	0.026988771
RP11-485G7.6	STAC	0.860604184	0.027792477
RP11-118G23.2	STAC	0.874739751	0.02255252
RP11-78A19.3	STAC	0.855918154	0.029643828
RP11-66D17.5	STAC	-0.835125704	0.038534367
BX322559.3	STAC	-0.873844205	0.022869024
LL21NC02-21A1.1	STAC	-0.888933946	0.017818466
AC024028.1	REEP2	0.891476437	0.017026985
RP11-485G7.6	REEP2	0.91087761	0.01156026
CTA-315H11.2	AMOTL1	0.813289871	0.049036588
RP11-77G23.2	AMOTL1	0.873820091	0.022877576
CTD-2541M15.3	AMOTL1	0.866540795	0.025528494
RP11-66D17.5	AMOTL1	-0.874686003	0.022571456
RP11-126K1.8	AMOTL1	-0.847773739	0.032995495
RP3-438O4.4	AMOTL1	-0.850269448	0.031950435
NUP50-AS1	AMOTL1	-0.886448159	0.018608961
PSMD5-AS1	AMOTL1	-0.904953832	0.013121348
TOPORS-AS1	AMOTL1	-0.864188431	0.026414666
AC087294.2	AMOTL1	-0.871051595	0.02386948
AP001062.8	AMOTL1	-0.870097811	0.024215846
RP11-455F5.3	AMOTL1	-0.870989939	0.023891798
RP11-326C3.2	AMOTL1	-0.879874573	0.020778465
AP006621.8	AMOTL1	-0.893435645	0.016428872
JHDM1D-AS1	AMOTL1	-0.864374579	0.026344018
RP11-20I23.6	AMOTL1	-0.892368345	0.016753426
RP11-160E2.19	AMOTL1	-0.901544513	0.014063036
AC005786.7	AMOTL1	-0.898558198	0.014913719
CTB-191K22.5	AMOTL1	-0.89253094	0.016703786
RP11-20I23.8	AMOTL1	-0.872757336	0.02325597
CDC37L1-AS1	AMOTL1	-0.857900688	0.028853672
LL21NC02-21A1.1	AMOTL1	-0.816936707	0.04720083
RP5-1142A6.10	AMOTL1	-0.912083296	0.011254251
RP11-556I13.1	AMOTL1	-0.864214296	0.026404844
AC011558.5	AMOTL1	-0.836354322	0.037978654
RP11-473M20.11	DNAJB5	0.861249126	0.027542105
RP11-680G24.6	DNAJB5	0.897176767	0.015315371
LLNLR-284B4.1	HELLS	-0.896958852	0.015379199
RP11-77G23.2	HELLS	0.880822878	0.020458432
CTD-2541M15.3	HELLS	0.829359756	0.04119278
AC011558.5	HELLS	-0.854710301	0.030130178
LLNLR-284B4.1	GDPD1	-0.813280544	0.049041325
RP4-784A16.3	GDPD1	0.881893673	0.020099918
RP3-339A18.6	ZNF566	0.821537873	0.0449312
NUP50-AS1	ZNF566	-0.815245202	0.048048262
TOPORS-AS1	ZNF566	-0.819097757	0.046128363
RP11-118G23.2	MBTPS2	0.907470697	0.012446405
RP4-784A16.3	MBTPS2	0.870908239	0.023921388
RP3-339A18.6	MBTPS2	0.821402448	0.044997258
CTC-1337H24.3	MBTPS2	-0.828984011	0.041368896
RP11-66D17.5	MBTPS2	-0.887411037	0.018300807
RP11-126K1.8	MBTPS2	-0.826612743	0.042488428
NUP50-AS1	MBTPS2	-0.852755757	0.030925109
AP001062.8	MBTPS2	-0.818018334	0.046662617
AC005786.7	MBTPS2	-0.815154786	0.048093757
AC005944.2	MBTPS2	-0.852598329	0.030989562
CTB-191K22.5	MBTPS2	-0.855111687	0.029968142
LL21NC02-21A1.1	MBTPS2	-0.88713982	0.018387357

RP11-680G24.6	ANKRD36BP1	0.871289555	0.023783435
RP3-339A18.6	ANKRD36BP1	0.879827235	0.020794503
CTC-1337H24.3	ANKRD36BP1	-0.884104458	0.019369324
LL21NC02-21A1.1	ANKRD36BP1	-0.817102318	0.047118237
LLNLR-284B4.1	COBLL1	-0.822785598	0.044324712
RP4-784A16.3	COBLL1	0.904648285	0.013204458
RP3-339A18.6	ACOT4	0.868450443	0.024819678
RMRP	ACOT4	-0.853736047	0.030525193
CCDC144NL-AS1	FAM47E	0.816531305	0.047403295
CTB-31O20.6	FAM47E	0.846831189	0.033394304
CTA-315H11.2	FAM47E	0.876021575	0.02210316
RP3-438O4.4	FAM47E	-0.865373731	0.02596635
TOPORS-AS1	FAM47E	-0.811970287	0.049708848
AC087294.2	FAM47E	-0.846895353	0.033367084
AP001062.8	FAM47E	-0.816772889	0.047282595
RP11-455F5.3	FAM47E	-0.846192338	0.033665897
RP11-326C3.2	FAM47E	-0.841209212	0.035819855
JHDM1D-AS1	FAM47E	-0.864890695	0.026148608
RP11-20I23.6	FAM47E	-0.835173837	0.038512525
AC005786.7	FAM47E	-0.812057841	0.049664112
RMRP	FAM47E	-0.819119224	0.046117767
RP11-20I23.8	FAM47E	-0.856367996	0.029463654
CDC37L1-AS1	FAM47E	-0.877492166	0.021592945
RP11-556I13.1	FAM47E	-0.865316386	0.025987955
LLNLR-284B4.1	TRUB1	-0.857514365	0.029006851
RP4-784A16.3	TRUB1	0.858914922	0.02845335
CTD-2541M15.3	TRUB1	0.885548977	0.018898956
PSMD5-AS1	TRUB1	-0.850498384	0.031855365
RP11-326C3.2	TRUB1	-0.817524554	0.046907964
AP006621.8	TRUB1	-0.839854822	0.036416137
RP11-160E2.19	TRUB1	-0.878015775	0.021412655
AC005944.2	TRUB1	-0.881784758	0.020136245
RP5-1142A6.10	TRUB1	-0.840590707	0.036091584
AC011558.5	TRUB1	-0.873770954	0.022895006
RP11-473M20.11	HMG5	-0.827481116	0.042076828
LLNLR-284B4.1	HMG5	-0.873135679	0.023120921
RP11-77G23.2	HMG5	0.824322758	0.043582821
AC011558.5	HMG5	-0.824371899	0.0435592
CCDC144NL-AS1	SACS	0.891867186	0.016906876
RP11-156P1.3	SACS	0.835630544	0.038305566
RP11-66D17.5	SACS	-0.84841873	0.03272389
RP3-438O4.4	SACS	-0.861867248	0.027303154
NUP50-AS1	SACS	-0.899045043	0.014773394
TOPORS-AS1	SACS	-0.836978187	0.037697924
AC087294.2	SACS	-0.907373107	0.012472255
AP001062.8	SACS	-0.906255609	0.012770103
JHDM1D-AS1	SACS	-0.905663042	0.012929418
RP11-20I23.6	SACS	-0.91439473	0.010678724
AC005786.7	SACS	-0.889855685	0.017529532
CTB-191K22.5	SACS	-0.905332065	0.013018819
RP11-20I23.8	SACS	-0.912587517	0.011127456
CDC37L1-AS1	SACS	-0.87051081	0.024065574
RP5-1142A6.10	SACS	-0.906186096	0.012788743
RP11-556I13.1	SACS	-0.90526506	0.013036954
AC011558.5	SACS	-0.834790592	0.038686598
LLNLR-284B4.1	SHCBP1	-0.830204086	0.040798315
CTD-2541M15.3	SHCBP1	0.877787491	0.021491169
RP11-91K8.5	SHCBP1	0.892837036	0.016610527
RP11-160E2.19	SHCBP1	-0.826773833	0.042411932
RP4-784A16.3	NAA25	0.915665108	0.01036865
CTD-2541M15.3	NAA25	0.811595991	0.049900305
PSMD5-AS1	NAA25	-0.819612067	0.045874815
AC005944.2	NAA25	-0.857546031	0.028994281

RP3-438O4.4	C18orf45	-0.844490929	0.034394263
NUP50-AS1	C18orf45	-0.844237822	0.034503244
PSMD5-AS1	C18orf45	-0.856943195	0.029234028
TOPORS-AS1	C18orf45	-0.910752289	0.011592295
AC087294.2	C18orf45	-0.853144763	0.030766117
AP001062.8	C18orf45	-0.831766436	0.04007308
RP11-455F5.3	C18orf45	-0.850650632	0.031792214
RP11-326C3.2	C18orf45	-0.884784684	0.019147137
AP006621.8	C18orf45	-0.85709101	0.029175155
JHDM1D-AS1	C18orf45	-0.854949988	0.030033369
RP11-20I23.6	C18orf45	-0.891179414	0.017118558
RP11-160E2.19	C18orf45	-0.912336147	0.01119058
AC005786.7	C18orf45	-0.899120012	0.014751842
AC005944.2	C18orf45	-0.867811791	0.025055674
CTB-191K22.5	C18orf45	-0.822826593	0.044304851
RP11-20I23.8	C18orf45	-0.860449537	0.027852672
CDC37L1-AS1	C18orf45	-0.84435991	0.034450656
RP11-556I13.1	C18orf45	-0.855113217	0.029967525
AC011558.5	C18orf45	-0.914395262	0.010678594
RP11-498J9.2	C5orf23	0.829213447	0.041261315
RP11-93O14.2	C5orf23	0.877038739	0.021749653
RP11-485G7.6	C5orf23	0.885825835	0.018809438
RP11-78A19.3	C5orf23	0.856604283	0.029369222
RP11-126K1.8	CCDC150	-0.847011075	0.033318017
NUP50-AS1	CCDC150	-0.840966952	0.035926173
PSMD5-AS1	CCDC150	-0.869522475	0.024425927
AC087294.2	CCDC150	-0.819510885	0.045924645
AP001062.8	CCDC150	-0.831897238	0.040012639
RP11-455F5.3	CCDC150	-0.828572664	0.041562101
RP11-326C3.2	CCDC150	-0.834879073	0.038646376
AP006621.8	CCDC150	-0.863120606	0.026821669
RP11-20I23.6	CCDC150	-0.830056262	0.040867249
RP11-160E2.19	CCDC150	-0.836186739	0.03805423
AC005786.7	CCDC150	-0.826705614	0.042444319
AC005944.2	CCDC150	-0.874189306	0.022746809
CTB-191K22.5	CCDC150	-0.830394167	0.040709756
RP11-20I23.8	CCDC150	-0.815875382	0.047731727
RP5-1142A6.10	CCDC150	-0.845704306	0.033874071
LLNLR-284B4.1	RFC3	-0.915355937	0.010443705
RP11-77G23.2	RFC3	0.871915978	0.023557633
AC011558.5	RFC3	-0.88764121	0.01822751
RP11-326C3.2	IQGAP3	-0.842500654	0.035255598
RP11-160E2.19	IQGAP3	-0.914991329	0.010532555
RP5-1142A6.10	IQGAP3	-0.831818784	0.040048886
RP11-77G23.2	KIAA1211	0.852721317	0.030939204
CTD-2541M15.3	KIAA1211	0.830054779	0.040867941
TOPORS-AS1	KIAA1211	-0.83007512	0.040858452
RP11-20I23.6	KIAA1211	-0.821069471	0.045159869
RP11-160E2.19	KIAA1211	-0.856995575	0.029213159
AC005786.7	KIAA1211	-0.833640762	0.039211065
AC005944.2	KIAA1211	-0.831863131	0.040028395
RP5-1142A6.10	KIAA1211	-0.861087165	0.027604879
AC011558.5	KIAA1211	-0.873787038	0.0228893
CCDC144NL-AS1	ALS2CR4	0.84230209	0.035342081
CTA-315H11.2	ALS2CR4	0.900719459	0.014295653
CTD-2541M15.3	ALS2CR4	0.875403031	0.02231946
PSMD5-AS1	ALS2CR4	-0.842633231	0.035197911
RP11-326C3.2	ALS2CR4	-0.85205135	0.031213995
AP006621.8	ALS2CR4	-0.850131488	0.03200779
RP11-77G23.2	GAB1	0.908368335	0.012209857
CTD-2541M15.3	GAB1	0.915178889	0.010486804
RP5-1033H22.2	CBWD5	0.895325538	0.015861669
RP11-298J23.8	CBWD5	0.876444503	0.021955845

CTD-2621117.8	CBWD5	0.827127587	0.042244172
RP11-77G23.2	CBWD5	0.832590372	0.039693065
CTB-31O20.6	FXD6	0.821666441	0.044868529
RP11-118G23.2	C3orf64	0.903682147	0.013468917
RP11-680G24.6	C3orf64	0.838897015	0.03684061
LL21NC02-21A1.1	C3orf64	-0.829231659	0.041252781
RP11-498J9.2	PHKA1	0.881963185	0.02007675
RP11-34P13.14	PHKA1	0.870317922	0.024135702
RP11-118G23.2	PHKA1	0.842752426	0.035146085
Z69720.3	PHKA1	0.882559809	0.019878419
BX322559.3	PHKA1	-0.830117488	0.040838691
LL21NC02-21A1.1	PHKA1	-0.837175292	0.037609433
CCDC144NL-AS1	GNA11	0.862965121	0.026881178
RP3-438O4.4	GNA11	-0.814039237	0.048656716
PSMD5-AS1	GNA11	-0.887695621	0.018210203
TOPORS-AS1	GNA11	-0.836531837	0.037898676
AC087294.2	GNA11	-0.846355067	0.033596618
RP11-455F5.3	GNA11	-0.857905113	0.028851919
AP006621.8	GNA11	-0.899429871	0.014662925
JHDM1D-AS1	GNA11	-0.862709674	0.026979083
RP11-20I23.6	GNA11	-0.886235669	0.018677297
AC005786.7	GNA11	-0.852625804	0.030978309
AC005944.2	GNA11	-0.841607231	0.035645504
RP11-20I23.8	GNA11	-0.867475203	0.025180478
CDC37L1-AS1	GNA11	-0.828940044	0.041389527
RP5-1142A6.10	GNA11	-0.895378703	0.015845851
RP11-556I13.1	GNA11	-0.862858083	0.026922182
RP11-160E2.19	STIL	-0.890852932	0.017219485
CTB-31O20.6	TCN2	0.8632655	0.026766269
RP11-473M20.11	CHAF1B	-0.827618283	0.042011984
CCDC144NL-AS1	CHAF1B	0.8681338	0.024936552
CTD-2531D15.5	CHAF1B	0.893541735	0.016396778
CTA-315H11.2	CHAF1B	0.836337732	0.037986132
RP11-160E2.19	CHAF1B	-0.856851941	0.0292704
AC011558.5	CHAF1B	-0.894716671	0.016043358
CTC-1337H24.3	BDP1	-0.828731969	0.041487228
CTD-2541M15.3	BDP1	0.817916335	0.046713249
AC005944.2	BDP1	-0.835939867	0.038165692
CCDC144NL-AS1	SLC25A10	0.874669185	0.022577383
CTB-31O20.6	SLC25A10	0.820381999	0.045496465
CTD-2139B15.2	SLC25A10	0.851534183	0.031426899
RP11-680G24.6	C17orf57	0.89848876	0.014933785
LA16c-359F1.1	C17orf57	0.894299151	0.016168524
BX322559.3	C17orf57	-0.838387384	0.037067406
LL21NC02-21A1.1	C17orf57	-0.848366711	0.032745756
CTD-2531D15.5	CCDC134	0.916129739	0.01025635
CTB-31O20.6	CCDC134	0.825829134	0.042861456
CTA-315H11.2	CCDC134	0.908966543	0.012053434
RP11-126K1.8	CCDC134	-0.832977477	0.039515111
PSMD5-AS1	CCDC134	-0.864404771	0.026332568
AC087294.2	CCDC134	-0.837154497	0.037618765
AP001062.8	CCDC134	-0.821382314	0.045007083
RP11-455F5.3	CCDC134	-0.85337347	0.030672822
RP11-326C3.2	CCDC134	-0.87463737	0.022588597
AP006621.8	CCDC134	-0.878167939	0.021360397
JHDM1D-AS1	CCDC134	-0.846842061	0.033389691
RP11-20I23.6	CCDC134	-0.834859248	0.038655387
RP11-160E2.19	CCDC134	-0.847451415	0.033131622
RMRP	CCDC134	-0.835608237	0.038315662
RP11-20I23.8	CCDC134	-0.846725902	0.033438994
RP11-556I13.1	CCDC134	-0.846631411	0.033479124
AC024028.1	HEY1	0.816952599	0.047192901
RP11-498J9.2	HEY1	0.905848958	0.012879331

RP11-485G7.6	HEY1	0.868773513	0.024700701
RP11-118G23.2	HEY1	0.851304954	0.031521485
LA16c-359F1.1	HEY1	0.908748168	0.012110423
LLNLR-284B4.1	CIT	-0.818319284	0.046513376
CTD-2541M15.3	CIT	0.841953527	0.035494135
RP11-91K8.5	CIT	0.882366015	0.019942736
RP11-160E2.19	CIT	-0.843888182	0.034654057
RP11-473M20.11	PKP4	-0.842273161	0.035354689
RP11-91K8.5	PKP4	0.835594795	0.038321747
AC011558.5	PKP4	-0.877515813	0.021584787
CCDC144NL-AS1	MRPL3P1	0.826815138	0.042392328
CTA-315H11.2	MRPL3P1	0.881647478	0.020182079
RP3-438O4.4	MRPL3P1	-0.847218069	0.033230335
NUP50-AS1	MRPL3P1	-0.813505512	0.048927134
PSMD5-AS1	MRPL3P1	-0.87722822	0.021684101
TOPORS-AS1	MRPL3P1	-0.887758707	0.018190148
AC087294.2	MRPL3P1	-0.865165754	0.026044749
AP001062.8	MRPL3P1	-0.825432689	0.043050759
RP11-455F5.3	MRPL3P1	-0.871273986	0.02378906
AP006621.8	MRPL3P1	-0.890003808	0.017483313
JHDM1D-AS1	MRPL3P1	-0.880119906	0.020695443
RP11-20I23.6	MRPL3P1	-0.903025272	0.013650167
AC005786.7	MRPL3P1	-0.881549329	0.020214878
AC005944.2	MRPL3P1	-0.833863455	0.039109231
RP11-20I23.8	MRPL3P1	-0.882760088	0.019812053
CDC37L1-AS1	MRPL3P1	-0.855033227	0.029999783
RP11-556I13.1	MRPL3P1	-0.880381723	0.020607017
LA16c-359F1.1	ZNF736	0.886538192	0.018580043
RP11-66D17.5	ZNF736	-0.894500913	0.016107981
NUP50-AS1	ZNF736	-0.82755444	0.042042159
CTB-191K22.5	ZNF736	-0.830765866	0.040536839
RP11-680G24.6	ZBTB6	0.825425346	0.043054269
RP11-126K1.8	ZBTB6	-0.869149787	0.024562473
RP3-438O4.4	ZBTB6	-0.847455922	0.033129716
NUP50-AS1	ZBTB6	-0.892758035	0.016634572
TOPORS-AS1	ZBTB6	-0.832206229	0.039870029
AC087294.2	ZBTB6	-0.834244442	0.038935298
AP001062.8	ZBTB6	-0.866879085	0.025402237
RP11-455F5.3	ZBTB6	-0.820672237	0.045354219
JHDM1D-AS1	ZBTB6	-0.812361937	0.04950888
RP11-20I23.6	ZBTB6	-0.812976468	0.049195866
AC005786.7	ZBTB6	-0.852106134	0.031191482
AC005944.2	ZBTB6	-0.872996552	0.023170539
CTB-191K22.5	ZBTB6	-0.90835365	0.012213709
RP11-20I23.8	ZBTB6	-0.814749414	0.048297975
CDC37L1-AS1	ZBTB6	-0.839635058	0.036513326
RP5-1142A6.10	ZBTB6	-0.815833884	0.047752542
RP11-556I13.1	ZBTB6	-0.812111665	0.04963662
RP5-1033H22.2	WNT5B	0.91291819	0.011044681
RP3-339A18.6	WNT5B	0.839203792	0.036704404
RP11-298J23.8	WNT5B	0.900769968	0.01428136
RP11-165D6.1	WNT5B	0.90177074	0.013999575
CTD-2531D15.5	C1orf163	0.823341064	0.04405595
RP11-160E2.19	C1orf163	-0.811733422	0.049829968
AC011558.5	C1orf163	-0.81864424	0.04635248
CTA-315H11.2	ZCCHC4	0.90585322	0.012878184
CTD-2541M15.3	ZCCHC4	0.87590945	0.022142295
RP3-438O4.4	ZCCHC4	-0.828739562	0.041483661
NUP50-AS1	ZCCHC4	-0.820829215	0.04527737
PSMD5-AS1	ZCCHC4	-0.892491174	0.01671592
TOPORS-AS1	ZCCHC4	-0.818657895	0.046345725
AC087294.2	ZCCHC4	-0.852486979	0.031035189
AP001062.8	ZCCHC4	-0.826683794	0.042454681

RP11-455F5.3	ZCCHC4	-0.858908655	0.028455815
RP11-326C3.2	ZCCHC4	-0.898613979	0.014897608
AP006621.8	ZCCHC4	-0.893204132	0.016499014
JHDM1D-AS1	ZCCHC4	-0.861620068	0.027398589
RP11-20I23.6	ZCCHC4	-0.880662642	0.020512342
AC005786.7	ZCCHC4	-0.859248666	0.028322199
AC005944.2	ZCCHC4	-0.886005327	0.01875151
CTB-191K22.5	ZCCHC4	-0.824309461	0.043589214
RP11-20I23.8	ZCCHC4	-0.867373234	0.025218345
CDC37L1-AS1	ZCCHC4	-0.849757456	0.032163534
RP5-1142A6.10	ZCCHC4	-0.88443293	0.019261879
RP11-556I13.1	ZCCHC4	-0.861690695	0.027371304
AC011558.5	ZCCHC4	-0.898261165	0.014999647
LLNLR-284B4.1	INTS7	-0.846840963	0.033390157
CTD-2541M15.3	INTS7	0.859085432	0.028386309
RP11-326C3.2	INTS7	-0.82490032	0.043305578
RP11-160E2.19	INTS7	-0.915358238	0.010443145
CCDC144NL-AS1	WDR4	0.865504125	0.025917253
CTD-2531D15.5	WDR4	0.896220055	0.015596546
RP11-770G2.2	WDR4	0.829614326	0.04107366
CTD-2139B15.2	WDR4	0.860979756	0.027646546
RP3-337H4.8	OIP5	0.873998122	0.022814477
MIR210HG	OIP5	0.848172149	0.0328276
CTD-2139B15.2	OIP5	0.914192851	0.010728407
RP11-91K8.5	OIP5	0.89892969	0.014806584
AC011558.5	OIP5	-0.87497423	0.022469998
AC024028.1	RAPH1	0.840308238	0.036216002
RP11-473M20.11	TIMELESS	-0.870229053	0.024168044
CCDC144NL-AS1	TIMELESS	0.813204939	0.049079729
CTD-2531D15.5	TIMELESS	0.817716147	0.046812695
RP11-160E2.19	TIMELESS	-0.863951912	0.026504561
CTD-2531D15.5	CLDN11	0.87885546	0.021125041
RP11-770G2.2	CLDN11	0.906200147	0.012784974
RP11-156P1.3	CLDN11	0.877425528	0.021615941
CTA-315H11.2	CLDN11	0.878341182	0.021300974
RMRP	CLDN11	-0.812560746	0.049407515
RP11-498J9.2	SLFN12	0.812511459	0.049432635
RP11-34P13.14	SLFN12	0.848359421	0.03274882
RP11-93O14.2	SLFN12	0.85612674	0.029560219
RP11-118G23.2	SLFN12	0.830403074	0.040705608
RP11-78A19.3	SLFN12	0.815919023	0.047709843
RP11-680G24.6	SLFN12	0.885585108	0.018887262
LA16c-359F1.1	SLFN12	0.82459219	0.043453385
Z69720.3	SLFN12	0.866163794	0.025669549
CTB-31O20.6	LGMN	0.875906931	0.022143175
AC005943.6	LGMN	0.889492678	0.017643052
RP11-118G23.2	UEVLD	0.853720627	0.030531465
RP3-339A18.6	UEVLD	0.892635429	0.016671923
RP11-66D17.5	UEVLD	-0.819337986	0.046009853
CTD-2541M15.3	CEP57L1	0.882816884	0.019793251
RP11-91K8.5	CEP57L1	0.894507474	0.016106014
RP11-160E2.19	CEP57L1	-0.849568386	0.032242397
MIR210HG	C16orf75	0.884209238	0.019335018
CCDC144NL-AS1	DARS2	0.845440228	0.033986967
CTD-2531D15.5	DARS2	0.858571502	0.028588602
CTA-315H11.2	DARS2	0.820828665	0.045277639
PSMD5-AS1	DARS2	-0.817150556	0.047094192
AP006621.8	DARS2	-0.819923413	0.045721642
RP11-160E2.19	DARS2	-0.86637389	0.025590896
AC011558.5	DARS2	-0.873361195	0.023040603
RP11-118G23.2	STON2	0.827807697	0.041922516
RP11-680G24.6	STON2	0.822888195	0.044275013
LLNLR-284B4.1	GTF2H2C	-0.854242211	0.030319663

RP4-784A16.3	GTF2H2C	0.898332187	0.014979079
AC005944.2	GTF2H2C	-0.832042203	0.039945703
CCDC144NL-AS1	C12orf73	0.885578168	0.018889508
CTB-31O20.6	C12orf73	0.885876994	0.018792918
CTA-315H11.2	C12orf73	0.865424471	0.02594724
CTD-2139B15.2	C12orf73	0.871386331	0.023748484
CTD-2531D15.5	CCDC71	0.889504825	0.017639248
AC005943.6	CCDC71	0.845187021	0.034095382
CTD-2139B15.2	CCDC71	0.877483824	0.021595823
RP4-784A16.3	RGS20	0.811766511	0.04981304
RP11-473M20.11	PRKAR2B	-0.814147939	0.048601726
LLNLR-284B4.1	PRKAR2B	-0.909972815	0.011792511
CTD-2541M15.3	PRKAR2B	0.879541184	0.020891541
LLNLR-284B4.1	ECT2	-0.843308357	0.034904839
CTD-2541M15.3	ECT2	0.873331771	0.023051075
RP11-91K8.5	ECT2	0.851020727	0.031638951
RP11-160E2.19	ECT2	-0.870930147	0.023913451
RP11-77G23.2	CLDN12	0.845347501	0.034026651
RP11-77G23.2	MELK	0.826726232	0.04243453
CTD-2541M15.3	MELK	0.870754124	0.023977251
RP11-160E2.19	MELK	-0.836935998	0.037716878
CTB-31O20.6	LRP3	0.886131936	0.018710701
RMRP	LRP3	-0.829106254	0.041311561
RP11-770G2.2	SLCO4A1	0.871999636	0.023527555
CTA-315H11.2	SLCO4A1	0.865562398	0.025895326
CTD-2139B15.2	SLCO4A1	0.819903963	0.045731204
RP11-160E2.19	SLCO4A1	-0.845073456	0.03414406
AC011558.5	SLCO4A1	-0.861529624	0.027433549
CTD-2541M15.3	ARHGAP11A	0.901418616	0.014098413
RP11-160E2.19	ARHGAP11A	-0.860048312	0.028009132
RP11-473M20.11	SLC36A1	-0.845048683	0.034154682
LLNLR-284B4.1	SLC36A1	-0.909348189	0.011954149
CTD-2541M15.3	SLC36A1	0.847506504	0.033108337
CTB-31O20.6	ADSSL1	0.842574925	0.035223276
RMRP	ADSSL1	-0.829341979	0.041201104
AC024028.1	PMS2P5	0.872259895	0.0234341
CTA-315H11.2	C17orf71	0.843485868	0.034827973
CTD-2541M15.3	C17orf71	0.899101204	0.014757247
PSMD5-AS1	C17orf71	-0.842647848	0.035191553
RP11-326C3.2	C17orf71	-0.83396036	0.039064956
AP006621.8	C17orf71	-0.844473821	0.034401624
RP11-160E2.19	C17orf71	-0.915584959	0.010388082
AC005944.2	C17orf71	-0.82178002	0.044813198
RP11-498J9.2	DUSP4	0.832719576	0.039633628
RP11-93O14.2	DUSP4	0.846804454	0.033405649
RP11-485G7.6	DUSP4	0.865790285	0.025809662
RP11-78A19.3	DUSP4	0.81329761	0.049032658
Z69720.3	DUSP4	0.87353736	0.022977953
RMRP	DUSP4	-0.866799643	0.02543186
RP11-770G2.2	CLEC10A	0.826969235	0.042319228
CTB-31O20.6	CLEC10A	0.893923428	0.016281559
LLNLR-284B4.1	NEK4	-0.813885259	0.048734659
RP4-784A16.3	NEK4	0.837123793	0.037632545
CTD-2541M15.3	NEK4	0.83467258	0.038740273
RP11-66D17.5	NEK4	-0.825116963	0.043201797
NUP50-AS1	NEK4	-0.842851395	0.03510308
PSMD5-AS1	NEK4	-0.859174894	0.028351164
TOPORS-AS1	NEK4	-0.845047404	0.034155231
AC087294.2	NEK4	-0.818535249	0.046406416
AP001062.8	NEK4	-0.818459833	0.046443754
RP11-455F5.3	NEK4	-0.818629638	0.046359704
RP11-326C3.2	NEK4	-0.838430079	0.037048381
AP006621.8	NEK4	-0.847344698	0.03317675

RP11-20I23.6	NEK4	-0.850585763	0.031819114
RP11-160E2.19	NEK4	-0.876309683	0.022002754
AC005786.7	NEK4	-0.863233276	0.026778585
AC005944.2	NEK4	-0.90440929	0.013269642
CTB-191K22.5	NEK4	-0.838145838	0.037175127
RP11-20I23.8	NEK4	-0.819403808	0.045977406
RP5-1142A6.10	NEK4	-0.887688658	0.018212418
AC011558.5	NEK4	-0.854445478	0.03023731
LLNLR-284B4.1	SGOL1	-0.829783582	0.04099455
CTD-2541M15.3	SGOL1	0.880230372	0.020658112
RP11-91K8.5	SGOL1	0.857915121	0.028847956
RP11-160E2.19	SGOL1	-0.87206942	0.023502479
CTD-2531D15.5	DNAJC12	0.843315582	0.034901709
CTB-31O20.6	DNAJC12	0.906719488	0.012646052
CTA-315H11.2	DNAJC12	0.906313689	0.012754539
RP11-126K1.8	DNAJC12	-0.878049766	0.021400976
NUP50-AS1	DNAJC12	-0.811923377	0.049732824
PSMD5-AS1	DNAJC12	-0.862208091	0.027171815
AC087294.2	DNAJC12	-0.840964388	0.035927299
AP001062.8	DNAJC12	-0.84246128	0.035272739
RP11-455F5.3	DNAJC12	-0.854678718	0.030142945
RP11-326C3.2	DNAJC12	-0.840466299	0.036146356
AP006621.8	DNAJC12	-0.868493361	0.024803857
JHDM1D-AS1	DNAJC12	-0.844166423	0.034534016
RP11-20I23.6	DNAJC12	-0.816354112	0.047491915
CTB-191K22.5	DNAJC12	-0.817173993	0.047082512
RMRP	DNAJC12	-0.900173719	0.014450531
RP11-20I23.8	DNAJC12	-0.843019402	0.035030133
CDC37L1-AS1	DNAJC12	-0.81341493	0.048973097
RP11-556I13.1	DNAJC12	-0.843811194	0.034687306
CCDC144NL-AS1	C1orf97	0.858871551	0.028470414
CTD-2541M15.3	C1orf97	0.873610159	0.022952088
PSMD5-AS1	C1orf97	-0.883759757	0.019482384
RP11-455F5.3	C1orf97	-0.824098662	0.043690615
RP11-326C3.2	C1orf97	-0.888581231	0.017929629
AP006621.8	C1orf97	-0.889454308	0.017655071
JHDM1D-AS1	C1orf97	-0.820203636	0.045583984
RP11-20I23.6	C1orf97	-0.842294096	0.035345565
AC005944.2	C1orf97	-0.849514608	0.032264845
RP11-20I23.8	C1orf97	-0.828000497	0.041831542
RP5-1142A6.10	C1orf97	-0.843957065	0.03462432
RP11-556I13.1	C1orf97	-0.820107566	0.045631156
RP11-680G24.6	ZNF100	0.91046852	0.011664992
LA16c-359F1.1	ZNF100	0.890081702	0.01745903
RP11-66D17.5	ZNF100	-0.909668507	0.011871125
RP11-126K1.8	ZNF100	-0.829285741	0.041227444
NUP50-AS1	ZNF100	-0.838621723	0.036963039
AP001062.8	ZNF100	-0.81681709	0.047260527
CTB-191K22.5	ZNF100	-0.855923421	0.029641716
RP5-1033H22.2	KIAA1826	0.836624371	0.037857016
RP11-21J18.1	KIAA1826	0.897023084	0.015360372
RP11-298J23.8	KIAA1826	0.821102863	0.04514355
RP11-165D6.1	KIAA1826	0.868326897	0.024865248
RP11-77G23.2	KIAA1826	0.879199281	0.021007809
LLNLR-284B4.1	TADA1	-0.834821323	0.038672626
CTA-315H11.2	TADA1	0.823127739	0.044159077
CTD-2541M15.3	TADA1	0.868473852	0.024811048
PSMD5-AS1	TADA1	-0.827721111	0.041963403
RP11-326C3.2	TADA1	-0.849845196	0.032126968
AP006621.8	TADA1	-0.833672934	0.039196346
RP5-1142A6.10	TADA1	-0.834883352	0.038644431
RP11-680G24.6	ZNF426	0.857238065	0.029116642
RP11-126K1.8	ZNF426	-0.844499215	0.034390698

RP3-438O4.4	ZNF426	-0.857611215	0.028968414
NUP50-AS1	ZNF426	-0.889995642	0.017485859
TOPORS-AS1	ZNF426	-0.873837738	0.022871317
AC087294.2	ZNF426	-0.833950389	0.039069511
AP001062.8	ZNF426	-0.860932158	0.02766502
RP11-455F5.3	ZNF426	-0.816528232	0.047404831
JHDM1D-AS1	ZNF426	-0.813224942	0.049069567
RP11-20I23.6	ZNF426	-0.819302625	0.046027288
AC005786.7	ZNF426	-0.867086934	0.025324811
AC005944.2	ZNF426	-0.847253976	0.033215136
CTB-191K22.5	ZNF426	-0.892182232	0.016810334
RP11-20I23.8	ZNF426	-0.814255626	0.048547278
CDC37L1-AS1	ZNF426	-0.843212784	0.034946257
RP5-1142A6.10	ZNF426	-0.833175348	0.039424293
RP11-556I13.1	ZNF426	-0.813127169	0.049119247
RP11-118G23.2	SLC35B4	0.820328608	0.045522655
RP4-784A16.3	SLC35B4	0.882828411	0.019789437
CTC-1337H24.3	SLC35B4	-0.87890166	0.02110927
RP3-337H4.8	RAD51	0.874233404	0.022731215
MIR210HG	RAD51	0.833860031	0.039110796
CTD-2139B15.2	RAD51	0.890800623	0.017235682
RP11-91K8.5	RAD51	0.827141123	0.042237759
AC011558.5	RAD51	-0.829436326	0.041156934
RP3-339A18.6	RNF217	0.845996251	0.033749467
CTD-2621I17.8	RNF217	0.836900273	0.037732931
RP3-337H4.8	AGFG2	0.823044947	0.044199131
LLNLR-284B4.1	POLD3	-0.823199149	0.044124543
CTD-2541M15.3	POLD3	0.911421147	0.011421816
RP11-160E2.19	POLD3	-0.899329217	0.01469178
RP3-339A18.6	BIK	0.880796227	0.020467394
RP11-21J18.1	BIK	0.851107561	0.031603042
CTD-2139B15.2	APOL1	0.913266201	0.010957889
RP11-91K8.5	APOL1	0.880901343	0.020432058
RP11-160E2.19	APOL1	-0.858797093	0.028499721
RP3-339A18.6	B3GALNT2	0.856575266	0.029380811
RP11-77G23.2	B3GALNT2	0.832263249	0.039843738
AC005944.2	B3GALNT2	-0.819816494	0.045774216
RP11-91K8.5	AKR1C3	0.904356899	0.013283952
RP11-160E2.19	AKR1C3	-0.829746955	0.041011663
RP11-77G23.2	KIF11	0.885980519	0.018759511
CTD-2541M15.3	KIF11	0.911883444	0.011304699
RP11-160E2.19	KIF11	-0.855783298	0.029697943
RP3-339A18.6	STAG3L3	0.821807924	0.04479961
CTC-1337H24.3	STAG3L3	-0.850940899	0.03167198
RP11-77G23.2	STAG3L3	0.881886076	0.020102451
AC005944.2	STAG3L3	-0.820061566	0.045653751
RP11-485G7.6	HLA-K	0.877654205	0.021537074
LA16c-359F1.1	HLA-K	0.834358998	0.038883071
BX322559.3	HLA-K	-0.875409968	0.022317029
RP11-680G24.6	TCF4	0.912997717	0.011024819
LA16c-359F1.1	TCF4	0.813572102	0.048893357
RP3-339A18.6	TCF4	0.850471148	0.031866668
CTC-1337H24.3	TCF4	-0.820788975	0.045297063
RP11-66D17.5	TCF4	-0.823281031	0.04408496
LL21NC02-21A1.1	TCF4	-0.9068708	0.012605715
MIR210HG	FKBPL	0.830900404	0.040474336
CTD-2139B15.2	FKBPL	0.862323592	0.027127376
RP11-156P1.3	ITPRIPL1	0.865552649	0.025898994
RP11-66D17.5	ITPRIPL1	-0.880723194	0.020491962
RP3-438O4.4	ITPRIPL1	-0.862316289	0.027130185
NUP50-AS1	ITPRIPL1	-0.885072672	0.019053439
PSMD5-AS1	ITPRIPL1	-0.841629224	0.035635881
AC087294.2	ITPRIPL1	-0.869248127	0.024526408

AP001062.8	ITPRIPL1	-0.895360934	0.015851137
RP11-455F5.3	ITPRIPL1	-0.869687016	0.024365758
AP006621.8	ITPRIPL1	-0.838031656	0.037226099
JHDM1D-AS1	ITPRIPL1	-0.857521206	0.029004136
RP11-20I23.6	ITPRIPL1	-0.827078508	0.042267428
AC005786.7	ITPRIPL1	-0.827817496	0.041917891
AC005944.2	ITPRIPL1	-0.826405975	0.04258671
CTB-191K22.5	ITPRIPL1	-0.88932628	0.017695205
RP11-20I23.8	ITPRIPL1	-0.854486565	0.030220677
CDC37L1-AS1	ITPRIPL1	-0.850729003	0.03175973
LL21NC02-21A1.1	ITPRIPL1	-0.830101666	0.04084607
RP11-556I13.1	ITPRIPL1	-0.857123119	0.029162374
RP11-34P13.14	ZNF608	0.832934211	0.039534982
RP11-118G23.2	ZNF608	0.848546781	0.032670094
RP11-680G24.6	ZNF608	0.877527047	0.021580912
Z69720.3	ZNF608	0.820175758	0.045597671
RP3-339A18.6	ZNF608	0.869502855	0.024433106
LLNLR-284B4.1	CNKSR3	-0.85987121	0.028078327
RP5-1033H22.2	CNKSR3	0.857363485	0.029066781
RP4-784A16.3	CNKSR3	0.905755022	0.012904626
RP11-298J23.8	CNKSR3	0.848250099	0.032794798
RP11-165D6.1	CNKSR3	0.895598049	0.015780673
CTD-2621I17.8	CNKSR3	0.875217993	0.022384362
RP11-77G23.2	CNKSR3	0.87592163	0.022138042
CTD-2541M15.3	TMEM194A	0.9102461	0.011722126
RP11-160E2.19	TMEM194A	-0.824426108	0.04353315
AC011558.5	TMEM194A	-0.892565479	0.01669325
RP11-77G23.2	ENPP4	0.879472887	0.020914742
CTD-2531D15.5	CHST10	0.847336411	0.033180255
CTD-2139B15.2	CHST10	0.826815797	0.042392016
PSMD5-AS1	CHST10	-0.875759859	0.022194558
AC087294.2	CHST10	-0.813230073	0.04906696
RP11-455F5.3	CHST10	-0.831337222	0.040271713
RP11-326C3.2	CHST10	-0.900922325	0.014238286
AP006621.8	CHST10	-0.889030219	0.017788181
JHDM1D-AS1	CHST10	-0.830869162	0.040488847
RP11-20I23.6	CHST10	-0.845837006	0.033817406
AC005944.2	CHST10	-0.812718247	0.04932728
RP11-20I23.8	CHST10	-0.83587158	0.03819655
RP5-1142A6.10	CHST10	-0.841091582	0.035871459
RP11-556I13.1	CHST10	-0.830859317	0.040493419
RP11-118G23.2	TMED8	0.870264796	0.024155034
RP4-784A16.3	TMED8	0.822395661	0.044513838
CTC-1337H24.3	TMED8	-0.848884875	0.032528256
AC024028.1	TCTEX1D1	0.817281204	0.047029098
RP11-485G7.6	TCTEX1D1	0.910644021	0.011620006
RP11-118G23.2	TCTEX1D1	0.877052664	0.021744832
MIR210HG	B3GNT7	0.831757864	0.040077043
RP11-21J18.1	SPIN4	0.850882059	0.031696335
RP11-770G2.2	SHPK	0.882543584	0.0198838
CTB-31O20.6	SHPK	0.878275242	0.021323582
CTD-2139B15.2	SHPK	0.84722362	0.033227986
RP11-326C3.2	SHPK	-0.840497493	0.036132619
AP006621.8	SHPK	-0.829046669	0.041339503
RP11-160E2.19	SHPK	-0.865141751	0.026053804
AC011558.5	SHPK	-0.834167269	0.038970501
LLNLR-284B4.1	SSX2IP	-0.881739734	0.020151272
CTD-2541M15.3	SSX2IP	0.868631495	0.024752968
RP11-91K8.5	SSX2IP	0.858539127	0.028601369
AC011558.5	SSX2IP	-0.840833756	0.03598469
LLNLR-284B4.1	CDC7	-0.908026138	0.012299775
AC011558.5	CDC7	-0.869123049	0.024572283
RP11-498J9.2	PLA2G4A	0.852925707	0.030855601

RP11-34P13.14	PLA2G4A	0.885021572	0.019070049
RP11-93O14.2	PLA2G4A	0.911755752	0.01133699
RP11-485G7.6	PLA2G4A	0.84540066	0.034003898
RP11-118G23.2	PLA2G4A	0.887728623	0.018199711
RP11-78A19.3	PLA2G4A	0.881962534	0.020076966
LA16c-359F1.1	PLA2G4A	0.906960135	0.012581929
Z69720.3	PLA2G4A	0.887999659	0.018113644
LL21NC02-21A1.1	PLA2G4A	-0.86082849	0.027705278
AC011558.5	ALG14	-0.836289879	0.038007708
RP3-339A18.6	NQO1	0.852816574	0.030900227
RP11-156P1.3	NQO1	0.901313442	0.014127999
CCDC144NL-AS1	KDELC1	0.829600149	0.041080289
RP11-156P1.3	KDELC1	0.845478953	0.0339704
CTA-315H11.2	KDELC1	0.839429379	0.036604396
RP11-126K1.8	KDELC1	-0.874914746	0.022490919
NUP50-AS1	KDELC1	-0.847613799	0.033063009
PSMD5-AS1	KDELC1	-0.91085992	0.011564779
AC087294.2	KDELC1	-0.834584623	0.038780302
AP001062.8	KDELC1	-0.84599163	0.033751437
RP11-455F5.3	KDELC1	-0.848810999	0.032559223
RP11-326C3.2	KDELC1	-0.859383807	0.028269175
AP006621.8	KDELC1	-0.903102722	0.013628735
JHDM1D-AS1	KDELC1	-0.825248323	0.043138926
RP11-20123.6	KDELC1	-0.84175502	0.035580867
RP11-160E2.19	KDELC1	-0.871422103	0.023735571
AC005786.7	KDELC1	-0.823320386	0.044065941
AC005944.2	KDELC1	-0.911933936	0.011291944
CTB-191K22.5	KDELC1	-0.852002287	0.031234164
RP11-20123.8	KDELC1	-0.834891096	0.038640913
RP5-1142A6.10	KDELC1	-0.843371964	0.034877286
RP11-556I13.1	KDELC1	-0.824621993	0.043439078
LLNLR-284B4.1	SAV1	-0.812476266	0.049450576
RP11-77G23.2	SAV1	0.844175034	0.034530304
AC011558.5	SAV1	-0.838503818	0.037015533
RP11-156P1.3	NDN	0.87811646	0.021378069
RMRP	NDN	-0.887950364	0.018129283
RP11-473M20.11	SOX13	0.865109309	0.026066046
RP11-680G24.6	SOX13	0.914865753	0.01056324
RP11-77G23.2	SPICE1	0.913422655	0.010918979
CTD-2541M15.3	SPICE1	0.865710019	0.025839819
AC024028.1	NACC2	0.88991502	0.017511011
RP11-680G24.6	NACC2	0.902576718	0.013774607
LA16c-359F1.1	NACC2	0.897065545	0.015347932
CTD-2139B15.2	DLGAP5	0.845484437	0.033968055
CTD-2541M15.3	DLGAP5	0.822703139	0.044364675
RP11-498J9.2	ANKRD50	0.876833444	0.021820782
RP11-485G7.6	ANKRD50	0.840236896	0.036247457
RP11-118G23.2	ANKRD50	0.888744178	0.017878232
RP11-78A19.3	ANKRD50	0.901071922	0.014196054
LA16c-359F1.1	ANKRD50	0.910541887	0.011646175
Z69720.3	ANKRD50	0.910813272	0.011576701
LL21NC02-21A1.1	ANKRD50	-0.813896305	0.048729066
RP11-473M20.11	CENPF	-0.849892903	0.032107094
CTD-2531D15.5	CENPF	0.812073171	0.049656281
CTD-2139B15.2	CENPF	0.828482791	0.04160437
CTD-2541M15.3	CENPF	0.837641472	0.037400528
RP11-160E2.19	CENPF	-0.823642603	0.043910369
AC011558.5	CENPF	-0.885031472	0.01906683
LLNLR-284B4.1	PACRGL	-0.877300071	0.021659268
RP11-77G23.2	PACRGL	0.840567821	0.036101657
CTD-2541M15.3	PACRGL	0.874007227	0.022811253
RP11-93O14.2	MIR17HG	0.822121771	0.044646904
RP11-485G7.6	MIR17HG	0.818538247	0.046404932

RMRP	MIR17HG	-0.879347645	0.020957319
LL21NC02-21A1.1	MIR17HG	-0.822959757	0.044240363
CTA-315H11.2	CENPL	0.835981643	0.03814682
RP11-91K8.5	CENPL	0.825833146	0.042859543
PSMD5-AS1	CENPL	-0.821534571	0.04493281
RP11-326C3.2	CENPL	-0.867972477	0.024996197
AP006621.8	CENPL	-0.831747521	0.040081824
RP11-20I23.6	CENPL	-0.833569132	0.039243847
RP5-1142A6.10	CENPL	-0.857156583	0.029149057
RP11-498J9.2	FCRLB	0.886348125	0.018641117
RP11-34P13.14	FCRLB	0.840361358	0.036192589
RP11-93O14.2	FCRLB	0.909501332	0.011914421
RP11-78A19.3	FCRLB	0.893378238	0.016446252
RP11-680G24.6	FCRLB	0.848635125	0.032633003
LA16c-359F1.1	FCRLB	0.899429682	0.01466298
Z69720.3	FCRLB	0.89851414	0.014926449
RP11-473M20.11	SLC8A3	0.863106082	0.026827225
RP11-680G24.6	SLC8A3	0.908663511	0.012132551
LA16c-359F1.1	SLC8A3	0.912477364	0.011155097
MIR210HG	SPC24	0.846790791	0.033411448
RP11-91K8.5	SPC24	0.853751553	0.030518887
LLNLR-284B4.1	MNAT1	-0.853954324	0.03043648
RP11-77G23.2	MNAT1	0.854064784	0.030391634
CTD-2541M15.3	MNAT1	0.904862171	0.013146254
PSMD5-AS1	MNAT1	-0.827720883	0.041963511
AP006621.8	MNAT1	-0.825842174	0.042855237
RP11-160E2.19	MNAT1	-0.896038588	0.015650157
AC005944.2	MNAT1	-0.822319308	0.044550915
RP11-473M20.11	FZD7	0.875849919	0.022163086
RP11-680G24.6	FZD7	0.885786566	0.018822122
LLNLR-284B4.1	CCDC99	-0.907036636	0.012561577
RP11-77G23.2	CCDC99	0.884345465	0.019290461
CTD-2541M15.3	CCDC99	0.827823795	0.041914917
RP11-160E2.19	CCDC99	-0.841370573	0.035749123
AC011558.5	CCDC99	-0.896446261	0.015529842
RP3-337H4.8	PQLC2	0.830845667	0.04049976
AC011558.5	PQLC2	-0.81778491	0.046778525
CTA-315H11.2	ZWILCH	0.849679045	0.032196229
PSMD5-AS1	ZWILCH	-0.871998237	0.023528058
TOPORS-AS1	ZWILCH	-0.843719538	0.03472691
AC087294.2	ZWILCH	-0.826586862	0.042500725
RP11-455F5.3	ZWILCH	-0.835560382	0.038337327
RP11-326C3.2	ZWILCH	-0.902175433	0.013886396
AP006621.8	ZWILCH	-0.878652978	0.021194226
JHDM1D-AS1	ZWILCH	-0.836836706	0.037761503
RP11-20I23.6	ZWILCH	-0.873052891	0.02315044
AC005786.7	ZWILCH	-0.852409415	0.03106699
AC005944.2	ZWILCH	-0.849201111	0.032395851
RP11-20I23.8	ZWILCH	-0.844078157	0.034572075
RP5-1142A6.10	ZWILCH	-0.898655644	0.01488558
RP11-556I13.1	ZWILCH	-0.836916504	0.037725637
CTA-315H11.2	STK32B	0.872357673	0.023399035
RP11-160E2.19	STK32B	-0.874898727	0.022496555
LL21NC02-21A1.1	STK32B	-0.907561632	0.012422342
CTD-2139B15.2	ORC6	0.905617046	0.012941825
RP11-91K8.5	ORC6	0.916542071	0.010157187
RP11-160E2.19	ORC6	-0.837716222	0.037367082
CCDC144NL-AS1	IL17RC	0.860979603	0.027646605
CTD-2531D15.5	IL17RC	0.838829271	0.03687072
RP11-770G2.2	IL17RC	0.825732748	0.042907445
RP5-1033H22.2	PHACTR2	0.845722072	0.033866482
RP3-339A18.6	PHACTR2	0.895180456	0.015904872
RP11-21J18.1	PHACTR2	0.863026394	0.026857719

RP11-165D6.1	PHACTR2	0.870152506	0.024195919
CTC-1337H24.3	PHACTR2	-0.87382868	0.02287453
CCDC144NL-AS1	SLC25A15	0.885254012	0.018994553
CTA-315H11.2	SLC25A15	0.894104124	0.01622715
PSMD5-AS1	SLC25A15	-0.87208934	0.023495323
TOPORS-AS1	SLC25A15	-0.835189995	0.038505194
AC087294.2	SLC25A15	-0.835581092	0.038327951
RP11-455F5.3	SLC25A15	-0.848052385	0.032878027
RP11-326C3.2	SLC25A15	-0.915179467	0.010486663
AP006621.8	SLC25A15	-0.886363885	0.018636049
JHDM1D-AS1	SLC25A15	-0.85130899	0.031519819
RP11-20I23.6	SLC25A15	-0.8735371	0.022978045
AC005786.7	SLC25A15	-0.839808082	0.036436797
AC005944.2	SLC25A15	-0.815095593	0.048123552
RP11-20I23.8	SLC25A15	-0.855308677	0.02988877
RP5-1142A6.10	SLC25A15	-0.883277078	0.01964123
RP11-556I13.1	SLC25A15	-0.851420904	0.031473624
CCDC144NL-AS1	NLRP2	0.853810362	0.030494976
RP11-156P1.3	NLRP2	0.875753434	0.022196804
RP11-126K1.8	NLRP2	-0.858993353	0.028422503
AP001062.8	NLRP2	-0.816578638	0.047379635
AC024028.1	RHBDF1	0.870697298	0.023997865
RP11-34P13.14	RHBDF1	0.903912334	0.013405678
RP11-680G24.6	RHBDF1	0.812146778	0.049618689
LA16c-359F1.1	RHBDF1	0.884342451	0.019291447
RP11-473M20.11	SPC25	-0.824193504	0.043644979
CCDC144NL-AS1	SPC25	0.83398185	0.039055141
CTA-315H11.2	SPC25	0.847721054	0.033017727
CTD-2541M15.3	SPC25	0.81847627	0.046435615
RP11-326C3.2	SPC25	-0.82152562	0.044937175
RP11-160E2.19	SPC25	-0.907300863	0.012491407
CTD-2139B15.2	NDC80	0.875650499	0.022232802
RP11-91K8.5	NDC80	0.906961735	0.012581503
RP11-160E2.19	NDC80	-0.812453097	0.049462389
LLNLR-284B4.1	CENPJ	-0.834882679	0.038644738
RP11-77G23.2	CENPJ	0.876577725	0.021909538
PSMD5-AS1	CENPJ	-0.830025036	0.040881818
TOPORS-AS1	CENPJ	-0.825366336	0.043082481
RP11-326C3.2	CENPJ	-0.824326401	0.04358107
AP006621.8	CENPJ	-0.824327772	0.043580411
RP11-20I23.6	CENPJ	-0.822774564	0.044330059
RP11-160E2.19	CENPJ	-0.868269553	0.024886413
AC005786.7	CENPJ	-0.828333369	0.041674689
AC005944.2	CENPJ	-0.851624066	0.031389848
RP5-1142A6.10	CENPJ	-0.863758265	0.026578269
AC011558.5	CENPJ	-0.877472282	0.021599806
RP11-473M20.11	UMPS	-0.823976682	0.043749341
RP11-770G2.2	UMPS	0.864557446	0.026274703
RP11-77G23.2	LACE1	0.882279625	0.019971441
CTD-2541M15.3	LACE1	0.86687222	0.025404797
PSMD5-AS1	LACE1	-0.819293028	0.046032021
TOPORS-AS1	LACE1	-0.828011499	0.041826353
RP11-326C3.2	LACE1	-0.823545131	0.043957403
AP006621.8	LACE1	-0.811971767	0.049708092
RP11-20I23.6	LACE1	-0.831809172	0.040053328
RP11-160E2.19	LACE1	-0.874394908	0.022674146
AC005786.7	LACE1	-0.840898143	0.035956397
AC005944.2	LACE1	-0.856962462	0.029226351
RP5-1142A6.10	LACE1	-0.869576786	0.024406059
AC011558.5	LACE1	-0.883890283	0.019439535
LLNLR-284B4.1	WRN	-0.860932004	0.02766508
RP11-77G23.2	WRN	0.88107576	0.020373491
RP11-160E2.19	WRN	-0.832824649	0.039585322

AC011558.5	WRN	-0.888982671	0.017803135
RP11-156P1.3	C2orf63	0.897905284	0.015102913
CTB-31O20.6	C2orf63	0.865418045	0.025949659
RP11-66D17.5	C2orf63	-0.852526998	0.031018787
RP3-438O4.4	C2orf63	-0.886764349	0.018507498
NUP50-AS1	C2orf63	-0.900607841	0.014327264
TOPORS-AS1	C2orf63	-0.830071848	0.040859979
RP11-20I23.6	C2orf63	-0.907516967	0.012434158
RP11-160E2.19	C2orf63	-0.887798069	0.01817764
AC005786.7	C2orf63	-0.879011738	0.021071717
AC005944.2	C2orf63	-0.916108373	0.010261501
CTB-191K22.5	C2orf63	-0.907964836	0.012315917
RMRP	C2orf63	-0.82549911	0.043019016
CDC37L1-AS1	C2orf63	-0.894622606	0.016071517
RP5-1142A6.10	C2orf63	-0.877509087	0.021587107
CCDC144NL-AS1	C19orf40	0.814601152	0.048372766
CTA-315H11.2	C19orf40	0.895875529	0.015698404
RP11-66D17.5	C19orf40	-0.828833029	0.041439762
RP11-126K1.8	C19orf40	-0.842485431	0.035262225
NUP50-AS1	C19orf40	-0.888086626	0.01808607
PSMD5-AS1	C19orf40	-0.912359792	0.011184635
AP001062.8	C19orf40	-0.896920605	0.015390414
AC005944.2	C19orf40	-0.880811608	0.020462222
CTB-191K22.5	C19orf40	-0.865312538	0.025989405
AC011558.5	C19orf40	-0.913073993	0.011005784
CTA-315H11.2	C10orf78	0.829310017	0.041216073
CTD-2541M15.3	C10orf78	0.899925084	0.014521359
PSMD5-AS1	C10orf78	-0.848038324	0.03288395
RP11-326C3.2	C10orf78	-0.867310953	0.025241488
AP006621.8	C10orf78	-0.849127264	0.032426747
JHDM1D-AS1	C10orf78	-0.811987952	0.049699821
RP11-20I23.6	C10orf78	-0.848612074	0.032642679
AC005786.7	C10orf78	-0.833838743	0.039120525
AC005944.2	C10orf78	-0.84930764	0.032351306
RP11-20I23.8	C10orf78	-0.819911994	0.045727256
RP5-1142A6.10	C10orf78	-0.873635792	0.022942983
RP11-556I13.1	C10orf78	-0.812121901	0.049631393
RP11-77G23.2	ERI1	0.902012983	0.013931774
AC011558.5	ERI1	-0.876355987	0.021986638
CTD-2139B15.2	RAD51AP1	0.825599779	0.042970926
CTD-2541M15.3	RAD51AP1	0.833663508	0.039200658
RP11-91K8.5	RAD51AP1	0.894127324	0.016220171
RP11-160E2.19	RAD51AP1	-0.883262876	0.019645913
CCDC144NL-AS1	SLC25A4	0.876449539	0.021954093
CTD-2531D15.5	SLC25A4	0.818880196	0.046235814
CTA-315H11.2	SLC25A4	0.903088083	0.013632785
CTD-2541M15.3	SLC25A4	0.851457953	0.031458339
PSMD5-AS1	SLC25A4	-0.889079708	0.017772623
RP11-455F5.3	SLC25A4	-0.816131129	0.047603545
RP11-326C3.2	SLC25A4	-0.874795645	0.022532836
AP006621.8	SLC25A4	-0.891687895	0.016961936
RP11-20I23.6	SLC25A4	-0.827211667	0.042204345
AC005944.2	SLC25A4	-0.859078275	0.028389121
RP11-20I23.8	SLC25A4	-0.813184924	0.049089898
RP5-1142A6.10	SLC25A4	-0.830178012	0.04081047
AC011558.5	SLC25A4	-0.915762523	0.010345056
RP11-118G23.2	OTUD6B	0.914924123	0.010548972
RP3-339A18.6	OTUD6B	0.817775198	0.04678335
RP11-126K1.8	OTUD6B	-0.899222668	0.014722355
RP3-438O4.4	OTUD6B	-0.828134203	0.041768505
NUP50-AS1	OTUD6B	-0.897123774	0.015330881
PSMD5-AS1	OTUD6B	-0.812505153	0.04943585
TOPORS-AS1	OTUD6B	-0.818130222	0.046607106

AC087294.2	OTUD6B	-0.830637988	0.04059629
AP001062.8	OTUD6B	-0.873302079	0.023061644
RP11-455F5.3	OTUD6B	-0.822087895	0.044663375
AC005786.7	OTUD6B	-0.837285376	0.037560053
AC005944.2	OTUD6B	-0.871813161	0.023594624
CTB-191K22.5	OTUD6B	-0.907937756	0.01232305
RP11-77G23.2	TMEM161B	0.897863694	0.015115004
RP11-66D17.5	TMEM161B	-0.875728455	0.022205537
RP11-126K1.8	TMEM161B	-0.825773552	0.042887973
RP3-438O4.4	TMEM161B	-0.84021313	0.036257939
NUP50-AS1	TMEM161B	-0.880749537	0.020483098
PSMD5-AS1	TMEM161B	-0.874719027	0.022559821
TOPORS-AS1	TMEM161B	-0.882498392	0.019898791
AC087294.2	TMEM161B	-0.854591253	0.030178316
AP001062.8	TMEM161B	-0.856415788	0.029444542
RP11-455F5.3	TMEM161B	-0.850748191	0.031751779
RP11-326C3.2	TMEM161B	-0.8560133	0.029605676
AP006621.8	TMEM161B	-0.862247827	0.027156523
JHDM1D-AS1	TMEM161B	-0.844552763	0.034367664
RP11-20I23.6	TMEM161B	-0.879181675	0.021013805
RP11-160E2.19	TMEM161B	-0.874326981	0.02269814
AC005786.7	TMEM161B	-0.897713087	0.015158825
CTB-191K22.5	TMEM161B	-0.878469599	0.021256977
RP11-20I23.8	TMEM161B	-0.852931802	0.030853109
CDC37L1-AS1	TMEM161B	-0.839874707	0.036407349
RP5-1142A6.10	TMEM161B	-0.910975287	0.011535321
RP11-556I13.1	TMEM161B	-0.844422778	0.034423592
AC011558.5	TMEM161B	-0.824128151	0.043676423
RP11-34P13.14	MPDZ	0.827192491	0.042213426
RP11-93O14.2	MPDZ	0.858531564	0.028604351
RP11-118G23.2	MPDZ	0.839472525	0.036585283
RP11-78A19.3	MPDZ	0.819042844	0.046155473
RP11-680G24.6	MPDZ	0.880038412	0.020723003
LA16c-359F1.1	MPDZ	0.830179917	0.040809582
Z69720.3	MPDZ	0.84013779	0.036291176
LL21NC02-21A1.1	MPDZ	-0.857815907	0.028887255
AC024028.1	LY6G5C	0.855340447	0.029875979
RP11-34P13.14	LY6G5C	0.90625559	0.012770108
LA16c-359F1.1	LY6G5C	0.852595639	0.030990664
RP11-473M20.11	KIAA1704	-0.816139977	0.047599113
RP11-160E2.19	KIAA1704	-0.847178302	0.033247172
AC011558.5	KIAA1704	-0.91157924	0.011381699
RP11-770G2.2	GPX3	0.877179143	0.02170107
AC024028.1	MTMR11	0.8232418	0.044103923
RP11-498J9.2	MTMR11	0.912589976	0.01112684
RP11-485G7.6	MTMR11	0.876079334	0.022083014
RP11-118G23.2	MTMR11	0.815953532	0.047692541
RP11-78A19.3	MTMR11	0.915323078	0.010451697
LA16c-359F1.1	MTMR11	0.89049222	0.017331325
MIR210HG	ATG4A	0.906669512	0.012659389
RP11-91K8.5	ATG4A	0.865544931	0.025901898
RP11-118G23.2	CAB39L	0.890233128	0.017411872
RP11-680G24.6	CAB39L	0.886472478	0.018601148
LA16c-359F1.1	CAB39L	0.877175104	0.021702467
RP11-126K1.8	CAB39L	-0.867679676	0.025104626
RP3-438O4.4	CAB39L	-0.860444939	0.027854462
NUP50-AS1	CAB39L	-0.876172148	0.022050658
TOPORS-AS1	CAB39L	-0.823241427	0.044104103
AC087294.2	CAB39L	-0.828748124	0.041479638
AP001062.8	CAB39L	-0.862026717	0.027241667
RP11-455F5.3	CAB39L	-0.811872537	0.049758815
AC005786.7	CAB39L	-0.827022582	0.042293936
CTB-191K22.5	CAB39L	-0.887577471	0.018247793

CDC37L1-AS1	CAB39L	-0.848211558	0.032811014
RP11-473M20.11	VGf	0.883929975	0.019426514
RP11-680G24.6	VGf	0.879735905	0.020825462
RP11-118G23.2	LIMA1	0.833559883	0.039248081
PSMD5-AS1	LIMA1	-0.916674515	0.010125435
RP11-326C3.2	LIMA1	-0.888225929	0.018041943
AP006621.8	LIMA1	-0.904564093	0.013227403
RP11-160E2.19	LIMA1	-0.828366472	0.041659106
AC024028.1	TIGD3	0.857161636	0.029147046
RP11-34P13.14	TIGD3	0.900361689	0.014397095
RP11-680G24.6	TIGD3	0.835682863	0.038281891
CTA-315H11.2	KIAA1279	0.867491147	0.02517456
RP11-77G23.2	KIAA1279	0.84536321	0.034019926
RP11-66D17.5	KIAA1279	-0.89726508	0.01528954
RP11-126K1.8	KIAA1279	-0.899387525	0.014675062
RP3-438O4.4	KIAA1279	-0.89579681	0.015721722
CDC37L1-AS1	KIAA1279	-0.898263522	0.014998964
AC011558.5	KIAA1279	-0.892801971	0.016621197
RP11-91K8.5	CLCN4	0.840059565	0.0363257
RP11-160E2.19	CLCN4	-0.85051307	0.03184927
AC011558.5	CLCN4	-0.891762373	0.016939053
AC024028.1	C6orf27	0.895823463	0.015713825
RP11-473M20.11	C6orf27	0.815819939	0.047759537
RP11-118G23.2	ADPRH	0.86914538	0.02456409
RP11-680G24.6	ADPRH	0.869154216	0.024560848
RP3-339A18.6	ADPRH	0.903825842	0.013429423
AC024028.1	AIFM3	0.888254917	0.018032767
RP11-485G7.6	AIFM3	0.887616409	0.018235401
LA16c-359F1.1	AIFM3	0.904151935	0.013340006
CTA-315H11.2	SEC22A	0.839017759	0.036786973
MIR210HG	SEC22A	0.841542021	0.035674041
CTD-2139B15.2	SEC22A	0.849230812	0.032383429
RP11-326C3.2	SEC22A	-0.849791036	0.032149537
RP11-20I23.6	SEC22A	-0.819966573	0.045700427
RP11-160E2.19	SEC22A	-0.868011165	0.024981887
RP5-1142A6.10	SEC22A	-0.821723871	0.044840547
AC011558.5	SEC22A	-0.882444246	0.019916761
RP11-498J9.2	ARNTL2	0.865673996	0.025853359
RP11-34P13.14	ARNTL2	0.894777399	0.016025192
RP11-93O14.2	ARNTL2	0.908205694	0.012252553
RP11-485G7.6	ARNTL2	0.852895932	0.030867773
RP11-118G23.2	ARNTL2	0.856763338	0.029305737
RP11-78A19.3	ARNTL2	0.877328068	0.021649596
LA16c-359F1.1	ARNTL2	0.895544662	0.015796525
Z69720.3	ARNTL2	0.910756377	0.011591249
LL21NC02-21A1.1	ARNTL2	-0.817599978	0.046870449
CTA-315H11.2	CNNM2	0.833574917	0.039241199
CTD-2139B15.2	CNNM2	0.862404197	0.027096384
RP11-91K8.5	CNNM2	0.817191719	0.047073679
RP11-326C3.2	CNNM2	-0.834846253	0.038661293
RP11-160E2.19	CNNM2	-0.900303922	0.014413507
LLNLR-284B4.1	C9orf41	-0.832628304	0.039675611
RP11-77G23.2	C9orf41	0.905548292	0.01296038
RP11-160E2.19	C9orf41	-0.861349944	0.027503064
AC005944.2	C9orf41	-0.83486216	0.038654063
AC011558.5	C9orf41	-0.880149381	0.020685479
RP11-680G24.6	ABHD6	0.846955447	0.033341599
Z69720.3	ABHD6	0.82925509	0.041241803
RP11-66D17.5	ABHD6	-0.813466021	0.04894717
RMRP	ABHD6	-0.847273389	0.033206921
LL21NC02-21A1.1	ABHD6	-0.814270606	0.048539706
AC024028.1	GPR85	0.911978696	0.011280641
RP11-473M20.11	GPR85	0.839655241	0.036504395

RP11-680G24.6	GPR85	0.892332112	0.016764498
RP11-485G7.6	ECM1	0.871414352	0.023738369
RMRP	ECM1	-0.836944409	0.037713099
RP3-337H4.8	POLA2	0.861573224	0.027416694
RP11-498J9.2	NPR3	0.889495504	0.017642167
RP11-34P13.14	NPR3	0.841330981	0.035766472
RP11-93O14.2	NPR3	0.916072347	0.01027019
RP11-78A19.3	NPR3	0.894572531	0.016086516
LA16c-359F1.1	NPR3	0.84748677	0.033116677
Z69720.3	NPR3	0.881032658	0.020387957
RP3-337H4.8	MND1	0.905093823	0.013083355
MIR210HG	MND1	0.864931308	0.026133261
RP11-91K8.5	MND1	0.881038532	0.020385985
CCDC144NL-AS1	NBL1	0.863929995	0.026512898
CTB-31O20.6	NBL1	0.829691992	0.04103735
AC005943.6	NBL1	0.861553383	0.027424363
AC024028.1	TNFRSF21	0.873385443	0.023031975
RP11-680G24.6	TNFRSF21	0.907251954	0.012504382
LA16c-359F1.1	TNFRSF21	0.915670229	0.010367409
CCDC144NL-AS1	FAM54A	0.875451944	0.022302319
CTD-2531D15.5	FAM54A	0.811490396	0.04995438
CTA-315H11.2	FAM54A	0.876366668	0.021982921
CTD-2139B15.2	FAM54A	0.912008803	0.011273042
RP11-326C3.2	FAM54A	-0.82627276	0.042650087
RP11-160E2.19	FAM54A	-0.886391631	0.018627129
RP3-337H4.8	GCLM	0.831183319	0.040343048
MIR210HG	GCLM	0.872825881	0.023231475
LLNLR-284B4.1	DEPDC1B	-0.8756733	0.022224826
RP11-77G23.2	DEPDC1B	0.843197221	0.034953004
RP11-326C3.2	DEPDC1B	-0.814636675	0.048354842
RP11-160E2.19	DEPDC1B	-0.905674979	0.0129262
RP5-1142A6.10	DEPDC1B	-0.815710318	0.047814544
RP3-337H4.8	C14orf80	0.896451467	0.015528309
MIR210HG	C14orf80	0.843501108	0.034821377
CTD-2139B15.2	C14orf80	0.891397924	0.017051168
AC024028.1	FST	0.89290801	0.016588939
RP11-473M20.11	FST	0.827574346	0.042032749
LA16c-359F1.1	FST	0.862804272	0.026942807
LLNLR-284B4.1	DTL	-0.817320514	0.047009521
CTA-315H11.2	DTL	0.824210614	0.043636749
CTD-2541M15.3	DTL	0.890374393	0.017367933
PSMD5-AS1	DTL	-0.817728908	0.046806353
RP11-326C3.2	DTL	-0.816406303	0.047465805
AP006621.8	DTL	-0.821343672	0.045025942
RP11-160E2.19	DTL	-0.905675798	0.012925979
CTA-315H11.2	DNAH14	0.858533757	0.028603486
RP11-77G23.2	DNAH14	0.822402404	0.044510565
CTD-2541M15.3	DNAH14	0.907126765	0.012537621
PSMD5-AS1	DNAH14	-0.875924869	0.022136911
RP11-326C3.2	DNAH14	-0.863160705	0.026806332
AP006621.8	DNAH14	-0.87542633	0.022311294
RP11-20I23.6	DNAH14	-0.82390249	0.043785078
AC005944.2	DNAH14	-0.864633846	0.026245769
RP5-1142A6.10	DNAH14	-0.840881519	0.035963701
LLNLR-284B4.1	TSPAN13	-0.822642987	0.044393838
RP11-91K8.5	TSPAN13	0.884575958	0.019215184
AC011558.5	TSPAN13	-0.846261985	0.033636238
RP11-498J9.2	LRP5L	0.825072621	0.043223029
RP11-93O14.2	LRP5L	0.849346456	0.032335082
RP11-485G7.6	LRP5L	0.883250181	0.0196501
RP11-78A19.3	LRP5L	0.823664497	0.043899808
RP11-680G24.6	LRP5L	0.840756391	0.036018699
LA16c-359F1.1	LRP5L	0.857896995	0.028855134

Z69720.3	LRP5L	0.867158851	0.025298048
RMRP	LRP5L	-0.835407914	0.038406387
RP11-126K1.8	ZNF296	-0.815974674	0.047681943
LLNLR-284B4.1	SMARCAD1	-0.841295202	0.035782154
RP11-21J18.1	SMARCAD1	0.829336055	0.041203879
AC024028.1	SERHL2	0.830131982	0.040831932
RP11-34P13.14	SERHL2	0.915392026	0.01043493
RP11-680G24.6	SERHL2	0.882224148	0.019989884
LLNLR-284B4.1	RAD18	-0.836419354	0.037949345
RP4-784A16.3	RAD18	0.899324636	0.014693094
AC005944.2	RAD18	-0.842660811	0.035185916
RP5-1142A6.10	RAD18	-0.820776814	0.045303016
LLNLR-284B4.1	HMMR	-0.850708166	0.031768366
CTD-2541M15.3	HMMR	0.859684937	0.028151191
RP11-91K8.5	HMMR	0.88402293	0.019396036
RP11-118G23.2	SCDP1	0.848159263	0.032833024
RP4-784A16.3	SCDP1	0.911391092	0.01142945
RP3-339A18.6	SCDP1	0.826058633	0.042752049
RP11-77G23.2	SCDP1	0.840069263	0.03632142
RP11-66D17.5	SCDP1	-0.811910182	0.049739569
RP11-680G24.6	GDAP2	0.901284331	0.014136194
LA16c-359F1.1	GDAP2	0.868642436	0.02474894
RP11-126K1.8	GDAP2	-0.867178233	0.025290837
RP3-438O4.4	GDAP2	-0.858543744	0.028599548
NUP50-AS1	GDAP2	-0.882536905	0.019886015
TOPORS-AS1	GDAP2	-0.837095285	0.037645341
AC087294.2	GDAP2	-0.828702626	0.041501014
AP001062.8	GDAP2	-0.863636769	0.026624564
AC005786.7	GDAP2	-0.835407777	0.038406449
CTB-191K22.5	GDAP2	-0.890510691	0.017325589
CDC37L1-AS1	GDAP2	-0.842943812	0.035062945
RP11-498J9.2	FAM132A	0.830470799	0.040674078
RP11-93O14.2	FAM132A	0.812626471	0.049374025
RP11-485G7.6	FAM132A	0.902550896	0.013781787
LA16c-359F1.1	FAM132A	0.829731271	0.041018992
Z69720.3	FAM132A	0.858067738	0.028787554
AC024028.1	THNSL2	0.912497632	0.011150008
RP11-473M20.11	THNSL2	0.836877961	0.037742958
RP11-680G24.6	THNSL2	0.898496017	0.014931687
LA16c-359F1.1	THNSL2	0.916878129	0.010076713
RMRP	FABP5	-0.81191489	0.049737163
RP11-118G23.2	NFIC	0.859912917	0.028062024
RP3-339A18.6	NFIC	0.839516306	0.036565894
RP11-66D17.5	NFIC	-0.912387636	0.011177637
RP11-126K1.8	NFIC	-0.901608965	0.014044942
NUP50-AS1	NFIC	-0.875952457	0.02212728
AC087294.2	NFIC	-0.813090641	0.049137813
AP001062.8	NFIC	-0.859415535	0.028256733
AC005944.2	NFIC	-0.845412606	0.033998786
CTB-191K22.5	NFIC	-0.889706863	0.017576029
RP11-21J18.1	METTL8	0.883415069	0.019595755
RP11-165D6.1	METTL8	0.835747007	0.038252874
CTD-2139B15.2	FOXMI	0.91220717	0.011223036
AC011558.5	FOXMI	-0.900669368	0.014309835
MIR210HG	C21orf58	0.896794719	0.015427358
RP11-91K8.5	C21orf58	0.902301925	0.013851111
CTA-315H11.2	FANCL	0.846964156	0.033337907
CTD-2541M15.3	FANCL	0.841675731	0.035615538
PSMD5-AS1	FANCL	-0.844454176	0.034410078
RP11-326C3.2	FANCL	-0.878281401	0.02132147
AP006621.8	FANCL	-0.852190729	0.031156734
RP11-20I23.6	FANCL	-0.84278322	0.035132701
AC005786.7	FANCL	-0.816632754	0.047352592

AC005944.2	FANCL	-0.818746279	0.046302011
RP11-20I23.8	FANCL	-0.813314324	0.049024171
RP5-1142A6.10	FANCL	-0.866979762	0.02536472
RP3-337H4.8	ORC1	0.888631	0.017913924
MIR210HG	ORC1	0.861451875	0.027463619
RP11-91K8.5	ORC1	0.854499088	0.030215609
AC011558.5	ORC1	-0.818217984	0.046563586
CTD-2541M15.3	NCEH1	0.820943328	0.045221543
RP11-91K8.5	NCEH1	0.859286608	0.028307307
CCDC144NL-AS1	PTGR1	0.867757875	0.025075646
CTA-315H11.2	PTGR1	0.904313133	0.013295912
PSMD5-AS1	PTGR1	-0.901711186	0.014016267
TOPORS-AS1	PTGR1	-0.831465072	0.040212498
AC087294.2	PTGR1	-0.844517395	0.034382877
AP001062.8	PTGR1	-0.812753404	0.049309378
RP11-455F5.3	PTGR1	-0.858012391	0.028809452
AP006621.8	PTGR1	-0.909880588	0.01181631
JHDM1D-AS1	PTGR1	-0.855739942	0.029715351
RP11-20I23.6	PTGR1	-0.884026342	0.019394918
AC005786.7	PTGR1	-0.852426233	0.031060093
AC005944.2	PTGR1	-0.864470462	0.026307663
RP11-20I23.8	PTGR1	-0.862733185	0.026970065
CDC37L1-AS1	PTGR1	-0.812388828	0.049495163
RP5-1142A6.10	PTGR1	-0.89779325	0.015135493
RP11-556I13.1	PTGR1	-0.855708704	0.029727896
LLNLR-284B4.1	LARP4	-0.814074508	0.04863887
RP5-1033H22.2	LARP4	0.816304801	0.047516591
RP11-21J18.1	LARP4	0.907331608	0.012483254
RP11-165D6.1	LARP4	0.856648555	0.029351545
RP11-77G23.2	LARP4	0.913338701	0.01093985
RP11-473M20.11	ERG	0.864809587	0.026179271
RP11-680G24.6	ERG	0.891580458	0.016994971
LA16c-359F1.1	ERG	0.892749692	0.016637113
RP11-498J9.2	KIF3A	0.87626949	0.022016749
RP11-93O14.2	KIF3A	0.912153096	0.011236657
RP11-118G23.2	KIF3A	0.874351945	0.022689321
RP11-78A19.3	KIF3A	0.886670775	0.018537497
LA16c-359F1.1	KIF3A	0.890736163	0.017255651
RP11-498J9.2	TAOK1	0.824154113	0.04366393
RP11-34P13.14	TAOK1	0.905424404	0.012993847
RP11-93O14.2	TAOK1	0.881704104	0.020163167
RP11-78A19.3	TAOK1	0.859882969	0.02807373
LA16c-359F1.1	TAOK1	0.90523856	0.01304413
Z69720.3	TAOK1	0.872309295	0.023416381
RP11-77G23.2	PEX13	0.830727696	0.04055458
CTD-2541M15.3	PEX13	0.847072086	0.033292162
RP11-66D17.5	PEX13	-0.8780243	0.021409726
RP11-126K1.8	PEX13	-0.859716306	0.028138915
RP3-438O4.4	PEX13	-0.832050711	0.039941776
NUP50-AS1	PEX13	-0.877695872	0.021522719
PSMD5-AS1	PEX13	-0.892699832	0.016652298
TOPORS-AS1	PEX13	-0.816864859	0.047236683
AC087294.2	PEX13	-0.85467882	0.030142904
AP001062.8	PEX13	-0.86327132	0.026764045
RP11-455F5.3	PEX13	-0.855433401	0.029838567
RP11-326C3.2	PEX13	-0.847698608	0.033027201
AP006621.8	PEX13	-0.877879769	0.021459415
JHDM1D-AS1	PEX13	-0.844996525	0.034177053
RP11-20I23.6	PEX13	-0.863089006	0.026833758
RP11-160E2.19	PEX13	-0.854591145	0.030178359
AC005786.7	PEX13	-0.867525112	0.025161954
CTB-191K22.5	PEX13	-0.894707341	0.01604615
RP11-20I23.8	PEX13	-0.853047135	0.030805983

CDC37L1-AS1	PEX13	-0.841656213	0.035624075
LL21NC02-21A1.1	PEX13	-0.866140618	0.025678233
RP5-1142A6.10	PEX13	-0.870602367	0.024032321
RP11-556I13.1	PEX13	-0.844711395	0.034299469
RP11-473M20.11	C2orf58	0.88054022	0.020553575
RP11-680G24.6	C2orf58	0.881575031	0.020206286
LA16c-359F1.1	C2orf58	0.901130491	0.014179536
RP3-337H4.8	POC1A	0.894788044	0.016022009
MIR210HG	POC1A	0.812295427	0.049542812
CTD-2531D15.5	RECQL4	0.827827076	0.041913368
RP11-770G2.2	RECQL4	0.819803209	0.045780751
RP11-473M20.11	CDC45	-0.845224651	0.034079259
CTD-2139B15.2	CDC45	0.871910578	0.023559575
AC011558.5	CDC45	-0.909823534	0.011831044
LLNLR-284B4.1	MYO1D	-0.891419657	0.017044472
RP11-77G23.2	MYO1D	0.850762518	0.031745844
CTD-2541M15.3	MYO1D	0.817505143	0.046917621
RP11-160E2.19	MYO1D	-0.882892512	0.01976823
CCDC144NL-AS1	TRAIP	0.8764807	0.021943258
CTD-2531D15.5	TRAIP	0.839033286	0.036780078
RP11-770G2.2	TRAIP	0.815037669	0.048152717
CTA-315H11.2	TRAIP	0.843583429	0.03478576
AC011558.5	TRAIP	-0.842236788	0.035370544
CCDC144NL-AS1	AGRN	0.911585329	0.011380155
RP11-66D17.5	AGRN	-0.822471681	0.044476938
RP11-126K1.8	AGRN	-0.881265171	0.02030998
RP3-438O4.4	AGRN	-0.90272779	0.013732635
NUP50-AS1	AGRN	-0.896448258	0.015529254
AP001062.8	AGRN	-0.908376913	0.012207607
CTB-191K22.5	AGRN	-0.880418963	0.020594455
CDC37L1-AS1	AGRN	-0.908826338	0.012090008
RP11-156P1.3	KYNU	0.867214882	0.025277205
RP3-438O4.4	KYNU	-0.838607017	0.036969585
NUP50-AS1	KYNU	-0.896415337	0.015538953
PSMD5-AS1	KYNU	-0.849007115	0.032477045
AC087294.2	KYNU	-0.851513869	0.031435276
AP001062.8	KYNU	-0.890055009	0.017467349
RP11-455F5.3	KYNU	-0.850045131	0.032043717
AP006621.8	KYNU	-0.833233908	0.039397434
JHDM1D-AS1	KYNU	-0.831292437	0.040292465
RP11-20I23.6	KYNU	-0.813535928	0.048911704
AC005786.7	KYNU	-0.825644767	0.042949444
AC005944.2	KYNU	-0.879514121	0.020900733
CTB-191K22.5	KYNU	-0.916276718	0.010220949
RP11-20I23.8	KYNU	-0.833107607	0.039455373
CDC37L1-AS1	KYNU	-0.83103759	0.04041065
RP11-556I13.1	KYNU	-0.830730233	0.040553401
RP3-337H4.8	CNN3	0.858066344	0.028788106
MIR210HG	CNN3	0.893432203	0.016429914
AC011558.5	CNN3	-0.827449658	0.042091706
CCDC144NL-AS1	CD40	0.813460934	0.048949751
CTA-315H11.2	CD40	0.839848022	0.036419143
RP11-118G23.2	WT1	0.884162393	0.019350352
RP11-680G24.6	WT1	0.836177059	0.038058598
RP4-784A16.3	RIF1	0.90121336	0.014156181
RP11-77G23.2	RIF1	0.914910389	0.010552328
RP11-66D17.5	RIF1	-0.856314959	0.029484869
NUP50-AS1	RIF1	-0.851457866	0.031458375
PSMD5-AS1	RIF1	-0.830327492	0.040740809
TOPORS-AS1	RIF1	-0.831060981	0.040399795
AP001062.8	RIF1	-0.819819115	0.045772927
AP006621.8	RIF1	-0.813058794	0.049154003
RP11-20I23.6	RIF1	-0.81933193	0.046012839

AC005786.7	RIF1	-0.845314442	0.034040804
AC005944.2	RIF1	-0.891862857	0.016908204
CTB-191K22.5	RIF1	-0.849211469	0.032391519
RP5-1142A6.10	RIF1	-0.854970556	0.030025068
RP4-784A16.3	CCDC136	0.860506584	0.027830459
CTC-1337H24.3	CCDC136	-0.898555891	0.014914385
RP11-77G23.2	CCDC136	0.82301195	0.0442151
RP11-66D17.5	CCDC136	-0.846147177	0.033685135
AC005944.2	CCDC136	-0.811492424	0.049953341
LA16c-359F1.1	FAM115A	0.879506859	0.0209032
RP11-66D17.5	FAM115A	-0.862256351	0.027153243
CTD-2139B15.2	UBR7	0.813235094	0.04906441
RP11-91K8.5	UBR7	0.835925431	0.038172215
RP11-160E2.19	UBR7	-0.882659998	0.019845206
CCDC144NL-AS1	MTG1	0.859075016	0.028390402
CTD-2531D15.5	MTG1	0.91363904	0.010865274
RP11-770G2.2	MTG1	0.894060975	0.016240135
CTD-2139B15.2	MTG1	0.8889192	0.017823106
CCDC144NL-AS1	NLE1	0.876163722	0.022053595
CTB-31O20.6	NLE1	0.888568142	0.01793376
AC005943.6	NLE1	0.87521308	0.022386086
CTA-315H11.2	EME1	0.83413848	0.038983637
CTD-2139B15.2	EME1	0.882049484	0.020048003
CTD-2541M15.3	EME1	0.826134866	0.042715735
RP11-91K8.5	EME1	0.916576297	0.010148977
RP11-326C3.2	EME1	-0.811473862	0.049962849
RP11-160E2.19	EME1	-0.889763844	0.01755822
CCDC144NL-AS1	SDC4	0.883139893	0.01968649
CTD-2531D15.5	SDC4	0.82955279	0.04110244
CTA-315H11.2	SDC4	0.845262465	0.034063062
CTD-2139B15.2	SDC4	0.85179488	0.031319492
RP11-326C3.2	SDC4	-0.820062379	0.045653352
RP11-160E2.19	SDC4	-0.867762914	0.025073779
AC011558.5	SDC4	-0.910066007	0.011768486
LLNLR-284B4.1	PPP2R1B	-0.88344291	0.019586586
CTD-2541M15.3	PPP2R1B	0.917093108	0.010025397
RP11-91K8.5	PPP2R1B	0.84129773	0.035781046
RP11-160E2.19	PPP2R1B	-0.819444214	0.045957493
CTB-31O20.6	HOMER2	0.845661745	0.033892254
CTB-31O20.6	MFSD2A	0.845495563	0.033963296
RMRP	MFSD2A	-0.816579929	0.04737899
RP11-118G23.2	NPIPL2	0.885822964	0.018810365
RP11-680G24.6	NPIPL2	0.848891722	0.032525386
RP3-339A18.6	NPIPL2	0.868554148	0.024781456
RP11-66D17.5	NPIPL2	-0.853991918	0.030421213
LL21NC02-21A1.1	NPIPL2	-0.849628945	0.032217127
RP3-337H4.8	CHTF18	0.859750347	0.028125595
CTD-2139B15.2	CHTF18	0.8528193	0.030899112
LLNLR-284B4.1	DCUN1D4	-0.914853178	0.010566316
CTD-2541M15.3	DCUN1D4	0.83548606	0.038370983
LLNLR-284B4.1	C5orf33	-0.834599099	0.038773713
RP11-77G23.2	C5orf33	0.91334475	0.010938346
AC011558.5	C5orf33	-0.820414128	0.045480708
RP11-34P13.14	ABCB8	-0.829646345	0.041058689
RP3-337H4.8	ABCB8	0.825125539	0.043197691
CTD-2139B15.2	ABCB8	0.833138117	0.039441374
RP3-339A18.6	FIGNL1	0.834412681	0.038858608
RP11-21J18.1	FIGNL1	0.840651095	0.036065011
RP11-165D6.1	FIGNL1	0.814628907	0.048358761
CTC-1337H24.3	FIGNL1	-0.820578458	0.045400158
RP11-77G23.2	FIGNL1	0.862933387	0.026893332
LA16c-359F1.1	SLC10A7	0.840271608	0.036232151
RP3-339A18.6	SLC10A7	0.826772615	0.04241251

CTC-1337H24.3	SLC10A7	-0.835106537	0.038543066
LL21NC02-21A1.1	SLC10A7	-0.888651847	0.017907347
CTD-2541M15.3	C11orf96	0.901310222	0.014128905
RP11-91K8.5	C11orf96	0.906756312	0.01263623
RP3-339A18.6	MEST	0.828452214	0.041618755
RP11-156P1.3	MEST	0.826884312	0.042359506
RP11-66D17.5	MEST	-0.834752767	0.038703798
RP11-126K1.8	MEST	-0.895990696	0.01566432
NUP50-AS1	MEST	-0.858674571	0.028547978
PSMD5-AS1	MEST	-0.84027803	0.036229319
AC087294.2	MEST	-0.836316968	0.037995493
AP001062.8	MEST	-0.860854151	0.02769531
RP11-455F5.3	MEST	-0.841283253	0.035787391
AP006621.8	MEST	-0.836221799	0.038038413
JHDM1D-AS1	MEST	-0.822345195	0.044538343
RP11-20I23.6	MEST	-0.813286232	0.049038436
AC005786.7	MEST	-0.813261595	0.049050949
AC005944.2	MEST	-0.828225507	0.041725484
CTB-191K22.5	MEST	-0.851958148	0.031252313
RMRP	MEST	-0.83519739	0.038501839
RP11-20I23.8	MEST	-0.823932741	0.043770505
RP11-556I13.1	MEST	-0.821811744	0.044797749
LA16c-359F1.1	BTBD3	0.841290039	0.035784417
RP3-339A18.6	BTBD3	0.833860541	0.039110562
LL21NC02-21A1.1	BTBD3	-0.859685033	0.028151154
RP11-498J9.2	PANX1	0.818134551	0.046604959
RP11-34P13.14	PANX1	0.870500475	0.024069329
RP11-93O14.2	PANX1	0.858115154	0.028768801
RP11-118G23.2	PANX1	0.856744481	0.02931326
RP11-78A19.3	PANX1	0.820627412	0.045376174
RP11-680G24.6	PANX1	0.913695105	0.01085138
LA16c-359F1.1	PANX1	0.840917012	0.035948108
Z69720.3	PANX1	0.881088941	0.020369068
RP3-337H4.8	NIF3L1	0.847899016	0.032942658
CTD-2139B15.2	NIF3L1	0.91472732	0.010597118
RP11-91K8.5	NIF3L1	0.881017192	0.020393148
AC011558.5	NIF3L1	-0.895095304	0.015930255
RP11-118G23.2	UGGT2	0.903062884	0.013639757
RP3-339A18.6	UGGT2	0.829715867	0.041026191
RP11-66D17.5	UGGT2	-0.913466664	0.010908046
RP11-126K1.8	UGGT2	-0.855860772	0.029666849
RP3-438O4.4	UGGT2	-0.825892089	0.042831431
NUP50-AS1	UGGT2	-0.88270496	0.01983031
TOPORS-AS1	UGGT2	-0.858976249	0.028429229
AC087294.2	UGGT2	-0.822106604	0.044654278
AP001062.8	UGGT2	-0.854601094	0.030174335
AC005786.7	UGGT2	-0.850221341	0.031970429
AC005944.2	UGGT2	-0.845968518	0.033761294
CTB-191K22.5	UGGT2	-0.8773187	0.021652832
LL21NC02-21A1.1	UGGT2	-0.880823259	0.020458304
RP5-1142A6.10	UGGT2	-0.826488073	0.042547674
CCDC144NL-AS1	LDHD	0.877358698	0.021639016
RP11-66D17.5	LDHD	-0.840320007	0.036210814
RP11-126K1.8	LDHD	-0.879174484	0.021016254
NUP50-AS1	LDHD	-0.897905457	0.015102863
AP001062.8	LDHD	-0.916355794	0.010201927
AC005944.2	LDHD	-0.900316835	0.014409837
CTB-191K22.5	LDHD	-0.88926678	0.017713872
AC011558.5	LDHD	-0.871546965	0.023690524
LLNLR-284B4.1	TNS3	-0.874104284	0.02277689
RP11-77G23.2	TNS3	0.915412881	0.010429861
PSMD5-AS1	TNS3	-0.83855724	0.036991744
RP11-326C3.2	TNS3	-0.819471567	0.045944016

AP006621.8	TNS3	-0.832286884	0.039832843
RP11-160E2.19	TNS3	-0.898554754	0.014914713
AC005944.2	TNS3	-0.855557263	0.029788751
RP5-1142A6.10	TNS3	-0.826355581	0.04261068
CCDC144NL-AS1	ZNF193	0.822577251	0.044425717
CTA-315H11.2	ZNF193	0.850128833	0.032008894
RP11-160E2.19	ZNF193	-0.897636558	0.015181115
CDC37L1-AS1	ZNF193	-0.912399092	0.011174758
RP11-118G23.2	KIAA1324L	0.90331901	0.013568972
RP11-680G24.6	KIAA1324L	0.891485694	0.017024135
RP3-339A18.6	KIAA1324L	0.89597025	0.015670369
RP11-77G23.2	CCDC50	0.820461746	0.04545736
AC024028.1	SLX1A	0.812172379	0.049605617
RP11-498J9.2	SLX1A	0.897877059	0.015111118
RP11-485G7.6	SLX1A	0.894712019	0.01604475
RP11-118G23.2	SLX1A	0.861091651	0.027603139
Z69720.3	SLX1A	0.893555806	0.016392524
RP3-337H4.8	CDCA3	0.871195775	0.023817327
RP11-91K8.5	CDCA3	0.827084848	0.042264423
CTA-315H11.2	WDSUB1	0.868294661	0.024877145
RP11-160E2.19	WDSUB1	-0.877603051	0.021554705
RP11-473M20.11	NFATC4	0.882231687	0.019987377
RP11-680G24.6	NFATC4	0.884455277	0.01925458
MIR210HG	FAM132B	0.894748023	0.016033979
CTD-2139B15.2	FAM132B	0.820321989	0.045525902
LLNLR-284B4.1	CDK1	-0.815427614	0.047956538
RP11-91K8.5	CDK1	0.891815199	0.016922832
AC011558.5	CDK1	-0.870840265	0.023946019
CTD-2531D15.5	CSTF2	0.861037223	0.027624249
CTA-315H11.2	CSTF2	0.912407453	0.011172656
PSMD5-AS1	CSTF2	-0.88464117	0.019193911
AC087294.2	CSTF2	-0.812544748	0.049415668
RP11-455F5.3	CSTF2	-0.831261431	0.040306835
RP11-326C3.2	CSTF2	-0.898160271	0.015028889
AP006621.8	CSTF2	-0.894694716	0.016049928
JHDM1D-AS1	CSTF2	-0.824712481	0.043395654
RP11-20I23.6	CSTF2	-0.846211749	0.03365763
AC005944.2	CSTF2	-0.831619353	0.040141096
RP11-20I23.8	CSTF2	-0.831678605	0.04011369
RP5-1142A6.10	CSTF2	-0.849621974	0.032220036
RP11-556I13.1	CSTF2	-0.824555159	0.043471164
RP11-473M20.11	CSE1L	-0.881823027	0.020123478
LLNLR-284B4.1	CSE1L	-0.835582656	0.038327242
CTD-2541M15.3	CSE1L	0.89401138	0.016255065
RP11-160E2.19	CSE1L	-0.838309516	0.037102116
RP11-118G23.2	TWSG1	0.907147395	0.01253214
RP4-784A16.3	TWSG1	0.874515606	0.02263154
CTC-1337H24.3	TWSG1	-0.899116785	0.014752769
RP11-77G23.2	TWSG1	0.829374607	0.041185826
RP11-66D17.5	TWSG1	-0.863750364	0.026581278
NUP50-AS1	TWSG1	-0.812146732	0.049618712
AC005944.2	TWSG1	-0.839375965	0.036628064
CTB-191K22.5	TWSG1	-0.831124895	0.040370144
CTD-2139B15.2	CCNA2	0.849681232	0.032195317
AC011558.5	CCNA2	-0.898684488	0.014877256
LLNLR-284B4.1	ATAD2	-0.916424755	0.010185353
RP11-160E2.19	ATAD2	-0.816059604	0.047639378
AC011558.5	ATAD2	-0.8832438	0.019652204
LLNLR-284B4.1	C2orf43	-0.9093051	0.011965339
CTD-2541M15.3	C2orf43	0.859346662	0.028283744
RP4-784A16.3	CDKAL1	0.852663387	0.030962919
RP11-77G23.2	CDKAL1	0.898932231	0.014805853
RP11-66D17.5	CDKAL1	-0.884578869	0.019214234

RP11-126K1.8	CDKAL1	-0.874655561	0.022582185
RP3-438O4.4	CDKAL1	-0.840190815	0.036267782
NUP50-AS1	CDKAL1	-0.901201228	0.014159599
PSMD5-AS1	CDKAL1	-0.913686645	0.010853476
TOPORS-AS1	CDKAL1	-0.872046972	0.023510544
AC087294.2	CDKAL1	-0.871813812	0.02359439
AP001062.8	CDKAL1	-0.881281426	0.020304534
RP11-455F5.3	CDKAL1	-0.874012256	0.022809471
RP11-326C3.2	CDKAL1	-0.877576466	0.02156387
AP006621.8	CDKAL1	-0.9009983	0.01421683
JHDM1D-AS1	CDKAL1	-0.859162833	0.028355901
RP11-20I23.6	CDKAL1	-0.889900546	0.017515528
RP11-160E2.19	CDKAL1	-0.892209338	0.01680204
AC005786.7	CDKAL1	-0.899084795	0.014761964
CTB-191K22.5	CDKAL1	-0.900647254	0.014316098
RP11-20I23.8	CDKAL1	-0.868764099	0.024704164
CDC37L1-AS1	CDKAL1	-0.837030454	0.037674449
RP5-1142A6.10	CDKAL1	-0.914417269	0.010673184
RP11-556I13.1	CDKAL1	-0.858795284	0.028500433
AC011558.5	CDKAL1	-0.821901945	0.044753837
RP11-473M20.11	ST7	-0.876676099	0.021875373
LLNLR-284B4.1	ST7	-0.89956189	0.01462512
AC011558.5	ST7	-0.903862337	0.013419402
RP11-473M20.11	CHEK1	-0.82809347	0.041787704
CCDC144NL-AS1	CHEK1	0.830699642	0.040567621
CTA-315H11.2	CHEK1	0.841247843	0.035802915
RP11-326C3.2	CHEK1	-0.818309169	0.046518388
RP11-160E2.19	CHEK1	-0.904445554	0.013259741
CTA-315H11.2	MUT	0.849910083	0.032099938
RP11-77G23.2	MUT	0.827716919	0.041965383
CTD-2541M15.3	MUT	0.874301817	0.022707032
RP11-66D17.5	MUT	-0.851923292	0.03126665
RP11-126K1.8	MUT	-0.833846579	0.039116944
RP3-438O4.4	MUT	-0.860181076	0.027957314
NUP50-AS1	MUT	-0.876500705	0.021936303
PSMD5-AS1	MUT	-0.909045275	0.01203292
TOPORS-AS1	MUT	-0.872074108	0.023500795
AC087294.2	MUT	-0.878619253	0.02120576
AP001062.8	MUT	-0.866836583	0.025418083
RP11-455F5.3	MUT	-0.879539701	0.020892045
RP11-326C3.2	MUT	-0.900583549	0.014334148
AP006621.8	MUT	-0.902310719	0.01384866
JHDM1D-AS1	MUT	-0.878032333	0.021406965
RP11-20I23.6	MUT	-0.904636614	0.013207637
AC005786.7	MUT	-0.903510312	0.013516218
CTB-191K22.5	MUT	-0.879335683	0.020961387
RP11-20I23.8	MUT	-0.885241957	0.018998465
CDC37L1-AS1	MUT	-0.872032546	0.023515728
RP11-556I13.1	MUT	-0.878006002	0.021416013
AC011558.5	MUT	-0.878264778	0.021327171
RP11-498J9.2	PDLIM4	0.840968257	0.0359256
RP11-34P13.14	PDLIM4	0.868140533	0.024934064
RP11-93O14.2	PDLIM4	0.864339293	0.026357403
RP11-78A19.3	PDLIM4	0.824874013	0.043318188
RP11-680G24.6	PDLIM4	0.857834008	0.028880083
Z69720.3	PDLIM4	0.893055677	0.016544066
MIR210HG	FAM64A	0.87258233	0.023318564
RP11-66D17.5	TMEM68	-0.879684595	0.020842864
RP11-126K1.8	TMEM68	-0.827632863	0.042005094
RP3-438O4.4	TMEM68	-0.820980957	0.045203142
NUP50-AS1	TMEM68	-0.857637783	0.028957874
PSMD5-AS1	TMEM68	-0.839719993	0.03647575
AC087294.2	TMEM68	-0.826813302	0.042393199

AP001062.8	TMEM68	-0.838606485	0.036969822
RP11-455F5.3	TMEM68	-0.821351057	0.045022337
AP006621.8	TMEM68	-0.822701918	0.044365267
JHDM1D-AS1	TMEM68	-0.815293404	0.048024016
RP11-20I23.6	TMEM68	-0.829523411	0.041116183
AC005786.7	TMEM68	-0.846025998	0.033736783
AC005944.2	TMEM68	-0.898310304	0.014985415
CTB-191K22.5	TMEM68	-0.876927907	0.021788039
RP11-20I23.8	TMEM68	-0.821470829	0.044963897
CDC37L1-AS1	TMEM68	-0.829542236	0.041107376
LL21NC02-21A1.1	TMEM68	-0.895889014	0.015694411
RP5-1142A6.10	TMEM68	-0.837059487	0.037661413
RP11-556I13.1	TMEM68	-0.815118332	0.048112105
CCDC144NL-AS1	PET112L	0.84987363	0.032115122
CTD-2531D15.5	PET112L	0.86555491	0.025898143
RP11-770G2.2	PET112L	0.8672717	0.025256078
CTA-315H11.2	DYNC2LI1	0.898945146	0.014802135
CTD-2541M15.3	DYNC2LI1	0.824600025	0.043449623
RP11-91K8.5	DYNC2LI1	0.817404587	0.046967663
PSMD5-AS1	DYNC2LI1	-0.871454844	0.023723755
TOPORS-AS1	DYNC2LI1	-0.820977552	0.045204807
AC087294.2	DYNC2LI1	-0.82757715	0.042031424
RP11-455F5.3	DYNC2LI1	-0.837719887	0.037365443
RP11-326C3.2	DYNC2LI1	-0.907161506	0.012528392
AP006621.8	DYNC2LI1	-0.880920858	0.020425501
JHDM1D-AS1	DYNC2LI1	-0.843508285	0.034818271
RP11-20I23.6	DYNC2LI1	-0.871062104	0.023865677
AC005786.7	DYNC2LI1	-0.840630375	0.036074127
AC005944.2	DYNC2LI1	-0.83681719	0.037770277
RP11-20I23.8	DYNC2LI1	-0.849144691	0.032419455
CDC37L1-AS1	DYNC2LI1	-0.815017478	0.048162885
RP5-1142A6.10	DYNC2LI1	-0.884276328	0.019313069
RP11-556I13.1	DYNC2LI1	-0.84368725	0.034740866
AC024028.1	SLC2A10	0.846718598	0.033442094
RP11-485G7.6	SLC2A10	0.899490259	0.014645627
RP11-78A19.3	SLC2A10	0.912892739	0.011051042
RP11-680G24.6	SLC2A10	0.898134912	0.015036243
LA16c-359F1.1	SLC2A10	0.881032983	0.020387848
RP3-337H4.8	RGS16	0.910116614	0.01175545
CCDC144NL-AS1	SNX24	0.826413213	0.042583268
CTA-315H11.2	SNX24	0.831062432	0.040399122
PSMD5-AS1	SNX24	-0.82895194	0.041383944
RP11-326C3.2	SNX24	-0.86979986	0.024324533
AP006621.8	SNX24	-0.841567863	0.035662731
RP11-20I23.6	SNX24	-0.826388143	0.042595191
RP5-1142A6.10	SNX24	-0.847335206	0.033180765
RP11-770G2.2	TNKS1BP1	0.83708734	0.037648907
RP11-91K8.5	TNKS1BP1	0.81904398	0.046154912
LLNLR-284B4.1	OGFOD1	-0.827383404	0.04212305
RP5-1033H22.2	OGFOD1	0.821280465	0.045056797
RP4-784A16.3	OGFOD1	0.851401603	0.031481589
RP11-21J18.1	OGFOD1	0.873213918	0.023093041
RP11-298J23.8	OGFOD1	0.816101091	0.047618592
RP11-165D6.1	OGFOD1	0.851880875	0.0312841
CTD-2621I17.8	OGFOD1	0.820940344	0.045223003
RP11-77G23.2	OGFOD1	0.831499016	0.040196784
RP11-77G23.2	PLK4	0.86910047	0.024580569
CTD-2541M15.3	PLK4	0.890664284	0.017277932
RP11-160E2.19	PLK4	-0.85935938	0.028278756
RP11-118G23.2	SMAD5	0.892040547	0.016853719
CTC-1337H24.3	SMAD5	-0.883052186	0.019715451
RP11-77G23.2	SMAD5	0.846323948	0.033609862
RP11-66D17.5	SMAD5	-0.855913586	0.02964566

NUP50-AS1	SMAD5	-0.818396752	0.046474996
AC005944.2	SMAD5	-0.841318902	0.035771766
CTB-191K22.5	SMAD5	-0.827401194	0.042114633
LL21NC02-21A1.1	SMAD5	-0.882405805	0.019929522
AC024028.1	KIAA0802	0.870012735	0.024246856
CTD-2139B15.2	ARV1	0.864985502	0.026112788
CTD-2541M15.3	ARV1	0.843035185	0.035023284
AC011558.5	ARV1	-0.902391701	0.013826094
RP4-784A16.3	IKBKAP	0.85355001	0.030600899
CTD-2621I17.8	IKBKAP	0.856113031	0.029565711
CCDC144NL-AS1	EYA3	0.882233841	0.019986661
CTA-315H11.2	EYA3	0.910336121	0.011698985
RP3-438O4.4	EYA3	-0.845186195	0.034095736
NUP50-AS1	EYA3	-0.813463209	0.048948597
PSMD5-AS1	EYA3	-0.889752908	0.017561637
TOPORS-AS1	EYA3	-0.874672312	0.022576281
AC087294.2	EYA3	-0.869794145	0.02432662
AP001062.8	EYA3	-0.830814563	0.040514211
RP11-455F5.3	EYA3	-0.879106943	0.021039263
AP006621.8	EYA3	-0.904027075	0.01337421
JHDM1D-AS1	EYA3	-0.885603705	0.018881244
RP11-20I23.6	EYA3	-0.90378153	0.013441596
AC005786.7	EYA3	-0.874779705	0.022538449
AC005944.2	EYA3	-0.835205664	0.038498085
RP11-20I23.8	EYA3	-0.888066415	0.018092476
CDC37L1-AS1	EYA3	-0.85356367	0.030595337
RP5-1142A6.10	EYA3	-0.911029689	0.011521442
RP11-556I13.1	EYA3	-0.885794058	0.018819702
RP3-339A18.6	C1orf216	0.816532162	0.047402867
RP11-66D17.5	C1orf216	-0.894861305	0.016000109
RP3-438O4.4	C1orf216	-0.84368174	0.034743248
NUP50-AS1	C1orf216	-0.884807429	0.019139729
PSMD5-AS1	C1orf216	-0.818282534	0.046531588
TOPORS-AS1	C1orf216	-0.811898525	0.049745529
AC087294.2	C1orf216	-0.848697342	0.032606894
AP001062.8	C1orf216	-0.883231278	0.019656335
RP11-455F5.3	C1orf216	-0.845806157	0.033830575
JHDM1D-AS1	C1orf216	-0.830507003	0.040657227
AC005786.7	C1orf216	-0.823403415	0.044025829
AC005944.2	C1orf216	-0.824662345	0.043419712
CTB-191K22.5	C1orf216	-0.886663237	0.018539915
RMRP	C1orf216	-0.884071364	0.019380164
RP11-20I23.8	C1orf216	-0.829012311	0.041355619
CDC37L1-AS1	C1orf216	-0.82516412	0.043179222
LL21NC02-21A1.1	C1orf216	-0.858084881	0.028780773
RP11-556I13.1	C1orf216	-0.830044247	0.040872854
RP11-91K8.5	ADHFE1	0.852271327	0.031123644
RP11-473M20.11	BUB1	-0.826643536	0.042473801
LLNLR-284B4.1	BUB1	-0.875758131	0.022195162
CTD-2541M15.3	BUB1	0.912225701	0.01121837
RP11-91K8.5	BUB1	0.854325365	0.030285961
CTD-2139B15.2	FAM83A	0.896593598	0.01548647
PSMD5-AS1	MSH5	-0.827866774	0.041894631
RP11-326C3.2	MSH5	-0.820740784	0.045320654
AP006621.8	MSH5	-0.828940853	0.041389147
RP11-160E2.19	MSH5	-0.871365051	0.023756167
RP5-1142A6.10	MSH5	-0.815252747	0.048044466
AC011558.5	MSH5	-0.882569022	0.019875363
CTD-2139B15.2	DSN1	0.87802717	0.021408739
CTD-2541M15.3	DSN1	0.852371048	0.031082726
RP11-160E2.19	DSN1	-0.848872148	0.032533589
RP3-337H4.8	NCAPH	0.861967914	0.027264332
MIR210HG	NCAPH	0.824018349	0.043729277

RP11-91K8.5	NCAPH	0.88692222	0.018456937
AC011558.5	NCAPH	-0.883686334	0.019506507
CTD-2531D15.5	WDYHV1	0.826066157	0.042748464
RP11-66D17.5	WDYHV1	-0.813826039	0.048764652
RP11-126K1.8	WDYHV1	-0.902577055	0.013774514
RP3-438O4.4	WDYHV1	-0.903980037	0.013387106
NUP50-AS1	WDYHV1	-0.891118571	0.017137345
TOPORS-AS1	WDYHV1	-0.892352402	0.016758297
AP001062.8	WDYHV1	-0.91329952	0.010949597
AC005786.7	WDYHV1	-0.91078136	0.01158486
AC005944.2	WDYHV1	-0.897040901	0.015355151
CTB-191K22.5	WDYHV1	-0.877337134	0.021646464
CDC37L1-AS1	WDYHV1	-0.909121565	0.012013057
AC011558.5	WDYHV1	-0.864126745	0.026438097
AC024028.1	SPOPL	0.836070136	0.038106857
RP11-498J9.2	SPOPL	0.91370024	0.010850108
RP11-485G7.6	SPOPL	0.870853565	0.023941199
RP11-118G23.2	SPOPL	0.885725736	0.01884178
RP11-498J9.2	NYNRIN	0.903721263	0.01345816
RP11-485G7.6	NYNRIN	0.884026606	0.019394831
RP11-118G23.2	NYNRIN	0.854690999	0.03013798
RP11-473M20.11	ITGA9	0.886722888	0.018520787
RP11-680G24.6	ITGA9	0.881651347	0.020180786
LA16c-359F1.1	ITGA9	0.913495886	0.010900789
RP11-485G7.6	SPRY4	0.903413356	0.013542942
RP11-473M20.11	SPRY4	0.845709809	0.03387172
RP11-680G24.6	SPRY4	0.912219407	0.011219955
LA16c-359F1.1	SPRY4	0.89865444	0.014885928
LLNLR-284B4.1	MYH10	-0.881310275	0.02029487
RP11-77G23.2	MYH10	0.88127186	0.020307739
CTD-2541M15.3	MYH10	0.832995039	0.039507046
RP11-160E2.19	MYH10	-0.835414311	0.038403488
AC011558.5	MYH10	-0.873677068	0.022928327
CCDC144NL-AS1	MPHOSPH6	0.879307806	0.020970871
CTD-2531D15.5	MPHOSPH6	0.832367922	0.039795497
CTA-315H11.2	MPHOSPH6	0.846722608	0.033440392
PSMD5-AS1	MPHOSPH6	-0.854606302	0.030172229
RP11-326C3.2	MPHOSPH6	-0.869847298	0.024307213
AP006621.8	MPHOSPH6	-0.863960821	0.026501172
RP11-20I23.6	MPHOSPH6	-0.823436739	0.044009734
RP5-1142A6.10	MPHOSPH6	-0.836450801	0.037935176
CCDC144NL-AS1	WDR12	0.868967477	0.0246294
CTD-2531D15.5	WDR12	0.903040625	0.013645917
RP11-770G2.2	WDR12	0.867157935	0.025298389
CTA-315H11.2	WDR12	0.842621895	0.035202842
RP11-160E2.19	WDR12	-0.814140986	0.048605242
RP11-66D17.5	WBSCR27	-0.833880265	0.039101549
RP11-126K1.8	WBSCR27	-0.841732284	0.035590807
RP3-438O4.4	WBSCR27	-0.865550413	0.025899835
NUP50-AS1	WBSCR27	-0.822576371	0.044426144
AC087294.2	WBSCR27	-0.833308519	0.039363226
AP001062.8	WBSCR27	-0.841054274	0.035887834
RP11-455F5.3	WBSCR27	-0.823954642	0.043759956
JHDM1D-AS1	WBSCR27	-0.832549431	0.039711908
CTB-191K22.5	WBSCR27	-0.827699035	0.041973831
RMRP	WBSCR27	-0.91260837	0.011122228
RP11-20I23.8	WBSCR27	-0.822798823	0.044318305
CDC37L1-AS1	WBSCR27	-0.86419811	0.02641099
RP11-556I13.1	WBSCR27	-0.83267768	0.039652897
RP4-784A16.3	DIP2B	0.867865996	0.025035603
RP11-21J18.1	DIP2B	0.886286385	0.018660976
RP11-298J23.8	DIP2B	0.898054107	0.015059688
AC024028.1	PLOD2	0.907317902	0.012486889

RP11-473M20.11	PLOD2	0.840515839	0.036124541
RP11-680G24.6	PLOD2	0.880297109	0.020635575
RP11-156P1.3	C1orf21	0.892982482	0.016566301
RP11-66D17.5	C1orf21	-0.83583518	0.038213004
RP11-126K1.8	C1orf21	-0.876436421	0.021958655
NUP50-AS1	C1orf21	-0.81828612	0.046529811
AP001062.8	C1orf21	-0.82652118	0.042531938
CTB-191K22.5	C1orf21	-0.845921994	0.03378114
RMRP	C1orf21	-0.819596511	0.045882475
LL21NC02-21A1.1	C1orf21	-0.87735585	0.02164
RP11-34P13.14	SESTD1	0.822499826	0.04446328
RP11-93O14.2	SESTD1	0.831488185	0.040201797
RP11-118G23.2	SESTD1	0.888318229	0.018012734
LA16c-359F1.1	SESTD1	0.855836257	0.029676686
Z69720.3	SESTD1	0.842669144	0.035182292
RP11-66D17.5	SESTD1	-0.813705216	0.04882587
LL21NC02-21A1.1	SESTD1	-0.848895684	0.032523726
LLNLR-284B4.1	WASF1	-0.857973797	0.028824727
PSMD5-AS1	WASF1	-0.833971929	0.039059672
RP11-326C3.2	WASF1	-0.816456897	0.047440499
AP006621.8	WASF1	-0.824965555	0.043274315
RP11-160E2.19	WASF1	-0.886077357	0.018728288
AC005944.2	WASF1	-0.866949014	0.025376175
RP5-1142A6.10	WASF1	-0.841580103	0.035657374
AC011558.5	WASF1	-0.899121004	0.014751557
CTA-315H11.2	PARP2	0.817628048	0.046856491
CTD-2139B15.2	PARP2	0.82210817	0.044653516
CTD-2541M15.3	PARP2	0.877448145	0.021608135
RP11-91K8.5	PARP2	0.881525756	0.020222759
RP11-326C3.2	PARP2	-0.813365149	0.048998366
RP11-160E2.19	PARP2	-0.901588746	0.014050617
RP11-498J9.2	APOBEC3H	0.874434799	0.02266006
RP11-34P13.14	APOBEC3H	0.865950219	0.025749622
RP11-485G7.6	APOBEC3H	0.914094964	0.010752537
RP11-118G23.2	APOBEC3H	0.820545704	0.045416207
Z69720.3	APOBEC3H	0.852103466	0.031192578
BX322559.3	APOBEC3H	-0.858522451	0.028607945
AC024028.1	SPIRE1	0.906746617	0.012638815
RP11-473M20.11	SPIRE1	0.831610154	0.040145351
CTD-2139B15.2	TUBG2	0.868964918	0.02463034
RP11-91K8.5	TUBG2	0.870068659	0.02422647
RP11-473M20.11	OR14L1P	0.88253718	0.019885924
RP11-680G24.6	OR14L1P	0.892286073	0.016778571
LA16c-359F1.1	OR14L1P	0.908358372	0.01221247
RP11-118G23.2	CYTH3	0.884055656	0.019385311
RP4-784A16.3	CYTH3	0.852839972	0.030890657
RP11-126K1.8	CYTH3	-0.882792233	0.019801411
RP3-438O4.4	CYTH3	-0.831225748	0.040323376
NUP50-AS1	CYTH3	-0.903664266	0.013473835
PSMD5-AS1	CYTH3	-0.846698789	0.033450506
TOPORS-AS1	CYTH3	-0.852590561	0.030992744
AC087294.2	CYTH3	-0.843129184	0.034982506
AP001062.8	CYTH3	-0.874758024	0.022546084
RP11-455F5.3	CYTH3	-0.836693261	0.037826015
AP006621.8	CYTH3	-0.827197583	0.042211015
JHDM1D-AS1	CYTH3	-0.819681612	0.04584058
RP11-20I23.6	CYTH3	-0.837111197	0.037638198
AC005786.7	CYTH3	-0.869228977	0.024533429
AC005944.2	CYTH3	-0.909849232	0.011824407
CTB-191K22.5	CYTH3	-0.908147694	0.012267797
RP11-20I23.8	CYTH3	-0.826340323	0.042617938
CDC37L1-AS1	CYTH3	-0.817122332	0.04710826
RP5-1142A6.10	CYTH3	-0.855560081	0.029787618

RP11-556I13.1	CYTH3	-0.819235922	0.046060186
CCDC144NL-AS1	INTS9	0.899312128	0.014696682
CTD-2531D15.5	INTS9	0.862167154	0.027187573
CTA-315H11.2	INTS9	0.824844389	0.04333239
RP11-160E2.19	INTS9	-0.838185891	0.037157254
AC011558.5	INTS9	-0.861525124	0.027435289
RP11-770G2.2	B9D1	0.813661647	0.048847954
RP11-473M20.11	GPATCH4	-0.819223189	0.046066467
CTD-2531D15.5	GPATCH4	0.823566387	0.043947145
AC024028.1	CRHBP	0.886335481	0.018645183
RP11-473M20.11	CRHBP	0.817163036	0.047087972
RP11-680G24.6	CRHBP	0.884700888	0.019174441
RP11-118G23.2	DPY19L1	0.826162551	0.042702551
RP4-784A16.3	DPY19L1	0.892393544	0.016745729
RP11-77G23.2	DPY19L1	0.864946949	0.026127352
RP11-66D17.5	DPY19L1	-0.902181882	0.013884596
RP11-126K1.8	DPY19L1	-0.870621076	0.024025528
NUP50-AS1	DPY19L1	-0.889932927	0.017505423
PSMD5-AS1	DPY19L1	-0.860194068	0.027952245
TOPORS-AS1	DPY19L1	-0.837258777	0.037571982
AC087294.2	DPY19L1	-0.834553839	0.038794316
AP001062.8	DPY19L1	-0.861956731	0.027268644
RP11-455F5.3	DPY19L1	-0.832115976	0.039911659
AP006621.8	DPY19L1	-0.841285266	0.035786509
JHDM1D-AS1	DPY19L1	-0.812886723	0.049241521
RP11-20I23.6	DPY19L1	-0.83710318	0.037641797
AC005786.7	DPY19L1	-0.861522494	0.027436306
CTB-191K22.5	DPY19L1	-0.894333242	0.016158287
RP11-20I23.8	DPY19L1	-0.821664164	0.044869639
LL21NC02-21A1.1	DPY19L1	-0.879537515	0.020892787
RP5-1142A6.10	DPY19L1	-0.859409704	0.028259019
RP11-556I13.1	DPY19L1	-0.812392534	0.049493273
CCDC144NL-AS1	SCO1	0.865318836	0.025987032
CTD-2531D15.5	SCO1	0.838386986	0.037067583
CTA-315H11.2	SCO1	0.850846796	0.031710936
PSMD5-AS1	SCO1	-0.861659152	0.027383489
RP11-326C3.2	SCO1	-0.852191094	0.031156583
AP006621.8	SCO1	-0.865513935	0.025913561
RP11-160E2.19	SCO1	-0.912124638	0.011243829
AC005944.2	SCO1	-0.828160201	0.041756253
RP5-1142A6.10	SCO1	-0.814883196	0.048230534
AC011558.5	SCO1	-0.915125491	0.010499819
RP3-337H4.8	MTHFD1L	0.857537494	0.02899767
CCDC144NL-AS1	PSRC1	0.901885778	0.013967358
CTD-2139B15.2	PSRC1	0.822333071	0.04454423
RP3-438O4.4	PSRC1	-0.825020828	0.043247835
PSMD5-AS1	PSRC1	-0.873168388	0.023109264
TOPORS-AS1	PSRC1	-0.840647063	0.036066785
AC087294.2	PSRC1	-0.850530355	0.031842098
RP11-455F5.3	PSRC1	-0.861767011	0.027341836
AP006621.8	PSRC1	-0.89005442	0.017467533
JHDM1D-AS1	PSRC1	-0.870183203	0.024184739
RP11-20I23.6	PSRC1	-0.88355799	0.019548709
AC005786.7	PSRC1	-0.846456801	0.033553341
RP11-20I23.8	PSRC1	-0.871818766	0.023592607
CDC37L1-AS1	PSRC1	-0.837906543	0.037281988
RP5-1142A6.10	PSRC1	-0.883526263	0.019559148
RP11-556I13.1	PSRC1	-0.870414426	0.024100604
RP11-473M20.11	PHLDB1	0.84508442	0.034139359
AC024028.1	ZNF124	0.846565917	0.033506953
RP11-485G7.6	ZNF124	0.89410604	0.016226573
RP11-118G23.2	ZNF124	0.813256551	0.049053511
LA16c-359F1.1	ZNF124	0.907265689	0.012500737

RP11-485G7.6	CCL4L1	0.906035788	0.012829092
RP11-473M20.11	CCL4L1	0.856220521	0.029522664
RP11-680G24.6	CCL4L1	0.895412255	0.015835873
LA16c-359F1.1	CCL4L1	0.88561897	0.018876305
CCDC144NL-AS1	TLE1	0.825870557	0.042841699
CTA-315H11.2	TLE1	0.876523753	0.021928292
CTD-2541M15.3	TLE1	0.818111239	0.046616522
RP11-126K1.8	TLE1	-0.816032965	0.047652727
RP3-438O4.4	TLE1	-0.815005819	0.048168757
NUP50-AS1	TLE1	-0.839196194	0.036707775
TOPORS-AS1	TLE1	-0.851328411	0.0315118
AC087294.2	TLE1	-0.859237022	0.02832677
AP001062.8	TLE1	-0.839635922	0.036512944
RP11-455F5.3	TLE1	-0.870588165	0.024037477
JHDM1D-AS1	TLE1	-0.862942743	0.026889748
RP11-20I23.6	TLE1	-0.895559396	0.015792149
AC005786.7	TLE1	-0.875022684	0.022452963
AC005944.2	TLE1	-0.905317627	0.013022726
CTB-191K22.5	TLE1	-0.82604652	0.04275782
RP11-20I23.8	TLE1	-0.871696762	0.023636535
CDC37L1-AS1	TLE1	-0.821081682	0.045153901
RP5-1142A6.10	TLE1	-0.915677271	0.010365703
RP11-556I13.1	TLE1	-0.862774648	0.026954164
RP3-339A18.6	TMEM33	0.883094707	0.019701408
RP11-165D6.1	TMEM33	0.812851886	0.049259248
CTC-1337H24.3	TMEM33	-0.821585489	0.044907985
RP11-77G23.2	TMEM33	0.813266339	0.04904854
RP11-498J9.2	PHLPP1	0.820693895	0.045343613
RP11-34P13.14	PHLPP1	0.873502435	0.022990367
RP11-93O14.2	PHLPP1	0.883216255	0.019661291
RP11-78A19.3	PHLPP1	0.853018631	0.030817627
LA16c-359F1.1	PHLPP1	0.904311874	0.013296256
Z69720.3	PHLPP1	0.871241938	0.023800641
LL21NC02-21A1.1	PHLPP1	-0.858025732	0.028804173
CTA-315H11.2	ARL1	0.874778046	0.022539033
LL21NC02-21A1.1	ARL1	-0.890869613	0.017214321
AC024028.1	PALM	0.910927541	0.011547508
RP11-473M20.11	PALM	0.837737853	0.037357406
RP11-680G24.6	PALM	0.883313894	0.019629093
RP11-680G24.6	PGM3	0.838634805	0.036957217
RP3-339A18.6	PGM3	0.827358361	0.0421349
CTC-1337H24.3	PGM3	-0.846649045	0.033471633
RP11-66D17.5	PGM3	-0.89798056	0.015081042
RP11-126K1.8	PGM3	-0.824193413	0.043645023
NUP50-AS1	PGM3	-0.842219146	0.035378236
AC005944.2	PGM3	-0.815454841	0.047942854
CTB-191K22.5	PGM3	-0.850192452	0.031982439
RP3-339A18.6	FAM57A	0.847276465	0.033205619
RP11-156P1.3	FAM57A	0.846292298	0.033623333
RP11-66D17.5	FAM57A	-0.823684585	0.043890118
RP11-126K1.8	FAM57A	-0.881611274	0.020194174
NUP50-AS1	FAM57A	-0.834279953	0.038919105
AP001062.8	FAM57A	-0.836449345	0.037935832
CTB-191K22.5	FAM57A	-0.832371515	0.039793841
RMRP	FAM57A	-0.861215557	0.027555111
RP11-498J9.2	GNAQP1	0.813634266	0.048861835
RP11-34P13.14	GNAQP1	0.899021363	0.014780204
RP11-93O14.2	GNAQP1	0.86116404	0.027575075
RP11-118G23.2	GNAQP1	0.90719317	0.012519984
RP11-78A19.3	GNAQP1	0.832584475	0.039695779
LA16c-359F1.1	GNAQP1	0.862705225	0.02698079
Z69720.3	GNAQP1	0.872575615	0.023320968
LLNLR-284B4.1	GOLIM4	-0.824681937	0.04341031

RP5-1033H22.2	GOLIM4	0.815745348	0.047796963
RP11-21J18.1	GOLIM4	0.896108469	0.015629501
RP11-165D6.1	GOLIM4	0.855034706	0.029999187
RP11-77G23.2	GOLIM4	0.910570251	0.011638905
LA16c-359F1.1	TNKS	0.872608794	0.023309094
CTC-1337H24.3	TNKS	-0.82041035	0.045482561
LL21NC02-21A1.1	TNKS	-0.895636846	0.015769157
RP3-339A18.6	SPRED2	0.915563522	0.010393283
RP11-126K1.8	SPRED2	-0.829920304	0.040930698
AC005944.2	SPRED2	-0.814201153	0.048574816
RP11-473M20.11	NUP37	-0.844749106	0.034283266
CTD-2139B15.2	NUP37	0.910625981	0.011624626
RP11-91K8.5	NUP37	0.847645273	0.033049718
RP11-160E2.19	NUP37	-0.838331459	0.037092333
RMRP	ZNF573	-0.82378366	0.043842345
RP11-498J9.2	MIER3	0.864866748	0.02615766
RP11-34P13.14	MIER3	0.908433724	0.012192711
RP11-485G7.6	MIER3	0.850726715	0.031760678
Z69720.3	MIER3	0.878054241	0.021399439
LL21NC02-21A1.1	MIER3	-0.837461331	0.037481189
RP3-337H4.8	GAS2L1	0.884739419	0.019161884
MIR210HG	GAS2L1	0.840520157	0.03612264
RP11-91K8.5	GAS2L1	0.820694443	0.045343344
MIR210HG	TUBG1	0.881822316	0.020123715
CTD-2139B15.2	TUBG1	0.880716538	0.020494202
CCDC144NL-AS1	RPF2	0.836237664	0.038031256
CTA-315H11.2	RPF2	0.856533199	0.029397616
RP11-91K8.5	RPF2	0.836362685	0.037974884
RP11-326C3.2	RPF2	-0.816541684	0.047398107
RP11-160E2.19	RPF2	-0.873386196	0.023031706
RP5-1033H22.2	SEC23IP	0.891523973	0.017012351
RP4-784A16.3	SEC23IP	0.83083669	0.04050393
RP3-339A18.6	SEC23IP	0.819888472	0.04573882
RP11-21J18.1	SEC23IP	0.873080968	0.023140427
RP11-298J23.8	SEC23IP	0.887276607	0.018343682
RP11-165D6.1	SEC23IP	0.900328716	0.014406462
RP11-118G23.2	LAMC1	0.859447336	0.028244264
CTC-1337H24.3	LAMC1	-0.849726097	0.032176608
LL21NC02-21A1.1	LAMC1	-0.813755519	0.048800378
RP11-118G23.2	ACER3	0.877768762	0.021497617
RP11-126K1.8	ACER3	-0.852844054	0.030888987
RP3-438O4.4	ACER3	-0.88966445	0.017589292
NUP50-AS1	ACER3	-0.905514654	0.012969463
PSMD5-AS1	ACER3	-0.817660975	0.04684012
BX322559.3	ACER3	-0.817461365	0.046939404
TOPORS-AS1	ACER3	-0.899885312	0.014532704
AC087294.2	ACER3	-0.866386696	0.025586106
AP001062.8	ACER3	-0.88151487	0.020226399
RP11-455F5.3	ACER3	-0.850421952	0.031887089
JHDM1D-AS1	ACER3	-0.851899729	0.031276343
RP11-20I23.6	ACER3	-0.859874342	0.028077102
AC005786.7	ACER3	-0.899152385	0.01474254
AC005944.2	ACER3	-0.877120569	0.021721332
CTB-191K22.5	ACER3	-0.908770541	0.012104578
RP11-20I23.8	ACER3	-0.853008137	0.030821914
CDC37L1-AS1	ACER3	-0.883435116	0.019589153
RP5-1142A6.10	ACER3	-0.872453089	0.023364842
RP11-556I13.1	ACER3	-0.851928144	0.031264654
AC024028.1	MLLT4	0.915791683	0.010337999
RP11-473M20.11	MLLT4	0.853213521	0.030738055
RP11-680G24.6	MLLT4	0.884970479	0.019086663
LLNLR-284B4.1	HIATL1	-0.844080908	0.034570889
CTA-315H11.2	HIATL1	0.815004145	0.0481696

RP11-77G23.2	HIATL1	0.823218377	0.044115247
CTD-2541M15.3	HIATL1	0.852187247	0.031158163
PSMD5-AS1	HIATL1	-0.852179427	0.031161375
RP11-326C3.2	HIATL1	-0.853171574	0.030755173
AP006621.8	HIATL1	-0.853898841	0.030459018
RP11-20I23.6	HIATL1	-0.815269139	0.048036221
AC005944.2	HIATL1	-0.837968303	0.037254394
RP5-1142A6.10	HIATL1	-0.842209836	0.035382295
RMRP	MMP14	-0.895427299	0.0158314
CTA-315H11.2	PHYH	0.852072067	0.031205481
RP11-91K8.5	PHYH	0.847561568	0.033085071
PSMD5-AS1	PHYH	-0.828427514	0.041630377
RP11-326C3.2	PHYH	-0.840140006	0.036290198
AP006621.8	PHYH	-0.830339093	0.040735405
RP11-160E2.19	PHYH	-0.907545086	0.012426719
AC005944.2	PHYH	-0.820469495	0.045453561
RP5-1142A6.10	PHYH	-0.823349948	0.044051657
RP3-337H4.8	CHEK2	0.850449647	0.031875592
RP11-91K8.5	CHEK2	0.824113792	0.043683333
AC011558.5	CHEK2	-0.811814611	0.049788437
LLNLR-284B4.1	C14orf106	-0.860974013	0.027648775
RP4-784A16.3	C14orf106	0.915103221	0.010505249
CTD-2541M15.3	C14orf106	0.897667089	0.015172221
AC005944.2	C14orf106	-0.822360855	0.044530738
LLNLR-284B4.1	NCAPG2	-0.899733518	0.014576043
RP11-77G23.2	NCAPG2	0.896028205	0.015653227
CTD-2541M15.3	NCAPG2	0.908033869	0.01229774
PSMD5-AS1	NCAPG2	-0.817275823	0.047031779
RP11-326C3.2	NCAPG2	-0.819090854	0.04613177
AP006621.8	NCAPG2	-0.814439212	0.04845452
RP11-160E2.19	NCAPG2	-0.90182014	0.013985736
AC005944.2	NCAPG2	-0.829402198	0.041172909
RP5-1142A6.10	NCAPG2	-0.83482369	0.03867155
CCDC144NL-AS1	DRAM1	0.842451935	0.035276808
RP11-66D17.5	DRAM1	-0.812945152	0.049211795
RP11-126K1.8	DRAM1	-0.841789773	0.035565675
NUP50-AS1	DRAM1	-0.872329939	0.023408978
TOPORS-AS1	DRAM1	-0.910270264	0.011715912
AP001062.8	DRAM1	-0.88901126	0.017794143
AC005944.2	DRAM1	-0.880087925	0.020706256
CTB-191K22.5	DRAM1	-0.861396139	0.027485184
AC011558.5	DRAM1	-0.892766401	0.016632025
CCDC144NL-AS1	ZC3HC1	0.850747379	0.031752116
CTA-315H11.2	ZC3HC1	0.828041419	0.041812244
PSMD5-AS1	ZC3HC1	-0.845920547	0.033781757
TOPORS-AS1	ZC3HC1	-0.820129513	0.045620378
RP11-455F5.3	ZC3HC1	-0.819203962	0.046075952
RP11-326C3.2	ZC3HC1	-0.880167403	0.020679388
AP006621.8	ZC3HC1	-0.857709397	0.028929472
JHDM1D-AS1	ZC3HC1	-0.817090091	0.047124332
RP11-20I23.6	ZC3HC1	-0.843644773	0.034759231
RP11-160E2.19	ZC3HC1	-0.915829064	0.010328955
AC005786.7	ZC3HC1	-0.817104541	0.047117129
RP11-20I23.8	ZC3HC1	-0.822195316	0.044611155
RP5-1142A6.10	ZC3HC1	-0.860667264	0.027767941
RP11-556I13.1	ZC3HC1	-0.817072213	0.047133245
RP11-473M20.11	MCM6	-0.867036702	0.025343513
LLNLR-284B4.1	MCM6	-0.814294234	0.048527764
RP11-160E2.19	MCM6	-0.848207048	0.032812912
MIR210HG	ZNF226	0.858922103	0.028450525
RP3-438O4.4	ZNF226	-0.815263632	0.048038991
TOPORS-AS1	ZNF226	-0.823550503	0.043954811
CDC37L1-AS1	ZNF226	-0.824591539	0.043453697

RP3-337H4.8	HDHD3	0.829483515	0.04113485
RP11-498J9.2	CMAH	0.816823326	0.047257414
RP11-34P13.14	CMAH	0.818524211	0.04641188
RP11-93O14.2	CMAH	0.882609351	0.019861992
RP11-485G7.6	CMAH	0.874126461	0.022769042
RP11-118G23.2	CMAH	0.874137478	0.022765144
RP11-78A19.3	CMAH	0.864138677	0.026433564
Z69720.3	CMAH	0.847563266	0.033084354
RP11-66D17.5	CMAH	-0.847355033	0.033172378
LL21NC02-21A1.1	CMAH	-0.888098703	0.018082242
RP11-473M20.11	GPR68	0.887516907	0.018267076
RP11-680G24.6	GPR68	0.867299609	0.025245704
LA16c-359F1.1	GPR68	0.916652063	0.010130814
RP11-118G23.2	F3	0.855651582	0.029750843
RP11-66D17.5	DEPDC5	-0.825381921	0.043075029
RP3-438O4.4	DEPDC5	-0.858320189	0.028687772
TOPORS-AS1	DEPDC5	-0.885111014	0.019040981
AC005786.7	DEPDC5	-0.834496492	0.03882043
CDC37L1-AS1	DEPDC5	-0.845044333	0.034156548
LA16c-359F1.1	FAM174A	0.851521573	0.031432099
AC024028.1	PPM1N	0.864713623	0.026215573
RP11-34P13.14	PPM1N	0.886669204	0.018538001
LA16c-359F1.1	UGDH	0.878734915	0.021166216
CTC-1337H24.3	UGDH	-0.812633085	0.049370656
RP11-66D17.5	UGDH	-0.814550414	0.048398374
LL21NC02-21A1.1	UGDH	-0.903211065	0.013598783
AC024028.1	FANCD2	-0.835619665	0.03831049
RP11-473M20.11	FANCD2	-0.854487662	0.030220233
RP3-337H4.8	FANCD2	0.841655587	0.035624348
CTD-2139B15.2	FANCD2	0.911709129	0.011348791
AC024028.1	UHRF1BP1L	0.896174403	0.015610025
RP11-473M20.11	UHRF1BP1L	0.822172128	0.044622425
CTD-2139B15.2	ANKRD54	0.815460686	0.047939917
RP3-337H4.8	CENPM	0.865415675	0.025950552
CTD-2139B15.2	CENPM	0.914871564	0.010561819
AC024028.1	SLC7A5P2	0.821580037	0.044910643
RP11-118G23.2	SLC7A5P2	0.812109866	0.049637539
RP11-498J9.2	HS6ST1P1	0.818592233	0.046378213
RP11-34P13.14	HS6ST1P1	0.89462251	0.016071545
RP11-93O14.2	HS6ST1P1	0.838825203	0.036872528
RP11-118G23.2	HS6ST1P1	0.81628245	0.047527777
RP11-680G24.6	HS6ST1P1	0.889264028	0.017714736
Z69720.3	HS6ST1P1	0.886703289	0.01852707
RP11-498J9.2	DNAJC18	0.884324597	0.019297284
RP11-34P13.14	DNAJC18	0.898478944	0.014936623
RP11-485G7.6	DNAJC18	0.886070036	0.018730647
RP11-118G23.2	DNAJC18	0.86111025	0.027595927
Z69720.3	DNAJC18	0.888683997	0.017897206
LL21NC02-21A1.1	DNAJC18	-0.854517361	0.030208213
RP11-473M20.11	C22orf36	0.851769709	0.031329855
RP11-680G24.6	C22orf36	0.86110093	0.027599541
LA16c-359F1.1	C22orf36	0.910724726	0.011599347
CCDC144NL-AS1	METTTL13	0.813997486	0.048677844
CTD-2531D15.5	METTTL13	0.823439786	0.044008263
CTD-2139B15.2	METTTL13	0.905252809	0.013040271
AC011558.5	METTTL13	-0.8635818	0.026645522
LLNLR-284B4.1	SLFN13	-0.900848048	0.014259278
RP11-21J18.1	SLFN13	0.89279813	0.016622366
AC024028.1	DSTNP2	0.853440465	0.030645519
RP4-784A16.3	KIF13A	0.88801598	0.018108468
RP11-77G23.2	KIF13A	0.854455134	0.030233401
RP11-126K1.8	KIF13A	-0.820011737	0.045678233
NUP50-AS1	KIF13A	-0.827669698	0.04198769

PSMD5-AS1	KIF13A	-0.84361933	0.034770233
AP006621.8	KIF13A	-0.83075512	0.040541833
AC005944.2	KIF13A	-0.876154533	0.022056797
CTB-191K22.5	KIF13A	-0.822478268	0.044473741
RP5-1142A6.10	KIF13A	-0.828784567	0.04146252
RP3-438O4.4	CRY2	-0.864416072	0.026328283
TOPORS-AS1	CRY2	-0.820278533	0.045547224
AC087294.2	CRY2	-0.825835246	0.042858541
RP11-455F5.3	CRY2	-0.816695763	0.047321113
JHDM1D-AS1	CRY2	-0.839803915	0.03643864
RP11-20I23.8	CRY2	-0.829725113	0.04102187
CDC37L1-AS1	CRY2	-0.872554061	0.023328683
RP11-556I13.1	CRY2	-0.840348917	0.036198072
RP3-337H4.8	CDCA8	0.870567626	0.024044936
MIR210HG	CDCA8	0.839928518	0.036383573
RP11-91K8.5	CDCA8	0.855154162	0.02995102
AC011558.5	CDCA8	-0.834752624	0.038703863
CCDC144NL-AS1	SFXN4	0.84876338	0.032579192
CTB-31O20.6	SFXN4	0.893056455	0.01654383
RP11-498J9.2	PDGFC	0.861649849	0.027387083
RP11-34P13.14	PDGFC	0.848351651	0.032752087
RP11-118G23.2	PDGFC	0.848605504	0.032645437
Z69720.3	PDGFC	0.859749227	0.028126033
BX322559.3	PDGFC	-0.831964067	0.039981775
LL21NC02-21A1.1	PDGFC	-0.870633441	0.02402104
MIR210HG	PRIM2	0.85469117	0.030137911
CTD-2139B15.2	PRIM2	0.835162744	0.038517559
RP11-91K8.5	PRIM2	0.853522411	0.030612138
RP11-160E2.19	PRIM2	-0.835321206	0.038445687
AC011558.5	PRIM2	-0.90986654	0.011819937
RP11-473M20.11	CALB2	0.874892937	0.022498592
RP11-680G24.6	CALB2	0.90174633	0.014006416
RP11-118G23.2	TMEM45A	0.827726609	0.041960806
RP11-680G24.6	TMEM45A	0.814587537	0.048379637
LA16c-359F1.1	TMEM45A	0.857734899	0.028919361
RP11-66D17.5	TMEM45A	-0.885537176	0.018902776
RP3-438O4.4	TMEM45A	-0.82135608	0.045019886
NUP50-AS1	TMEM45A	-0.825762641	0.04289318
CTB-191K22.5	TMEM45A	-0.845352553	0.034024488
CDC37L1-AS1	TMEM45A	-0.82146005	0.044969155
CCDC144NL-AS1	THG1L	0.84106896	0.035881388
CTA-315H11.2	THG1L	0.886843369	0.018482182
CTD-2139B15.2	THG1L	0.813469783	0.048945261
RP3-438O4.4	THG1L	-0.823420948	0.044017361
PSMD5-AS1	THG1L	-0.841627923	0.035636451
TOPORS-AS1	THG1L	-0.851410469	0.03147793
AC087294.2	THG1L	-0.837145762	0.037622685
RP11-455F5.3	THG1L	-0.844190187	0.034523773
RP11-326C3.2	THG1L	-0.906718264	0.012646379
AP006621.8	THG1L	-0.85930089	0.028301703
JHDM1D-AS1	THG1L	-0.85783444	0.028879912
RP11-20I23.6	THG1L	-0.873424898	0.023017939
AC005786.7	THG1L	-0.843907772	0.034645599
RP11-20I23.8	THG1L	-0.85831024	0.028691701
CDC37L1-AS1	THG1L	-0.83520229	0.038499616
RP5-1142A6.10	THG1L	-0.879037992	0.021062765
RP11-556I13.1	THG1L	-0.858211833	0.02873058
CCDC144NL-AS1	UNG	0.838273457	0.037118195
CTD-2531D15.5	UNG	0.906400553	0.012731279
RP11-156P1.3	UNG	0.836812607	0.037772338
RP11-118G23.2	RCBTB1	0.900944462	0.014232033
RP4-784A16.3	RCBTB1	0.891736107	0.016947121
CTC-1337H24.3	RCBTB1	-0.839973387	0.036363753

RP11-77G23.2	RCBTB1	0.826642667	0.042474214
RP11-66D17.5	RCBTB1	-0.873795368	0.022886345
NUP50-AS1	RCBTB1	-0.83919914	0.036706468
AC005944.2	RCBTB1	-0.84803704	0.032884491
CTB-191K22.5	RCBTB1	-0.842327845	0.035330858
LL21NC02-21A1.1	RCBTB1	-0.877049128	0.021746056
RP5-1033H22.2	LDLRAD3	0.879558862	0.020885538
RP11-298J23.8	LDLRAD3	0.849007923	0.032476706
RP11-165D6.1	LDLRAD3	0.872687125	0.023281073
CCDC144NL-AS1	IPO9	0.86177959	0.02733698
CTD-2531D15.5	IPO9	0.847492496	0.033114257
RP11-770G2.2	IPO9	0.853180442	0.030751554
CTB-31O20.6	IPO9	0.823788745	0.043839894
CTA-315H11.2	IPO9	0.877488546	0.021594194
RP11-160E2.19	IPO9	-0.829638742	0.041062244
RP11-91K8.5	MRPL35	0.820209167	0.045581269
AC011558.5	MRPL35	-0.87155037	0.023689296
RP11-473M20.11	TPX2	-0.818677789	0.046335884
CTD-2139B15.2	TPX2	0.86359416	0.026640809
RP11-91K8.5	TPX2	0.859212986	0.028336206
RP11-160E2.19	TPX2	-0.854194371	0.030339061
RP11-473M20.11	PON2	-0.843453627	0.034841928
LLNLR-284B4.1	PON2	-0.814461211	0.04844341
CTD-2541M15.3	PON2	0.905508409	0.012971149
RP11-91K8.5	PON2	0.842298946	0.035343451
RP11-160E2.19	PON2	-0.849884516	0.032110587
CCDC144NL-AS1	NME1-NME2	0.891014074	0.017169634
RP11-770G2.2	NME1-NME2	0.852503768	0.031028307
RP11-156P1.3	NME1-NME2	0.839191455	0.036709877
CTA-315H11.2	NME1-NME2	0.900308438	0.014412224
RP3-337H4.8	RACGAP1	0.825694011	0.042925934
MIR210HG	RACGAP1	0.833910148	0.039087894
CTD-2139B15.2	RACGAP1	0.887141654	0.018386771
RP11-156P1.3	DEGS2	0.880363924	0.020613023
CTB-31O20.6	DEGS2	0.81368515	0.048836041
RP11-126K1.8	DEGS2	-0.836003988	0.038136727
RP11-498J9.2	RP2	0.89227851	0.016780883
RP11-485G7.6	RP2	0.873544019	0.022975587
RP11-118G23.2	RP2	0.899160118	0.014740318
Z69720.3	RP2	0.912126761	0.011243294
LL21NC02-21A1.1	RP2	-0.833644531	0.039209341
AC024028.1	PTGER3	0.884848018	0.019126512
RP11-485G7.6	PTGER3	0.886714631	0.018523434
LA16c-359F1.1	PTGER3	0.899185399	0.014733057
CTD-2531D15.5	PCYT2	0.831195373	0.040337459
RP11-770G2.2	PCYT2	0.889000825	0.017797425
CTD-2139B15.2	PCYT2	0.898907055	0.014813101
CCDC144NL-AS1	TIMM50	0.831082413	0.040389851
CTD-2531D15.5	TIMM50	0.906077189	0.012817972
CTB-31O20.6	TIMM50	0.829547052	0.041105124
AC005943.6	TIMM50	0.818659784	0.04634479
CTD-2139B15.2	TIMM50	0.873387588	0.023031211
RP11-93O14.2	GFPT1	0.833737651	0.039166744
RP11-78A19.3	GFPT1	0.82026465	0.045554037
RP11-66D17.5	GFPT1	-0.841752111	0.035582139
LL21NC02-21A1.1	GFPT1	-0.879395783	0.020940949
CTD-2531D15.5	PRELID2	0.823877958	0.043796898
RP11-126K1.8	PRELID2	-0.840988861	0.035916551
RP3-438O4.4	PRELID2	-0.838624461	0.036961821
NUP50-AS1	PRELID2	-0.842917323	0.035074446
TOPORS-AS1	PRELID2	-0.854689159	0.030138724
AC087294.2	PRELID2	-0.881877861	0.02010519
AP001062.8	PRELID2	-0.857769835	0.028905513

RP11-455F5.3	PRELID2	-0.896032711	0.015651894
JHDM1D-AS1	PRELID2	-0.890702896	0.017265962
RP11-20I23.6	PRELID2	-0.908273684	0.012234696
AC005786.7	PRELID2	-0.875776701	0.02218867
AC005944.2	PRELID2	-0.885092915	0.019046861
CTB-191K22.5	PRELID2	-0.826371986	0.042602876
RP11-20I23.8	PRELID2	-0.89605395	0.015645615
CDC37L1-AS1	PRELID2	-0.844834398	0.034246634
RP5-1142A6.10	PRELID2	-0.911452393	0.011413881
RP11-556I13.1	PRELID2	-0.890572602	0.017306372
RP3-337H4.8	MYBL2	0.878790511	0.021147221
AC024028.1	C14orf49	0.846626349	0.033481275
UBE2Q1-AS1	PNPLA4	0.853919697	0.030450545
CTD-2531D15.5	PNPLA4	0.813066026	0.049150326
RP11-770G2.2	PNPLA4	0.911614923	0.011372654
CTB-31O20.6	PNPLA4	0.839261145	0.036678966
AC005943.6	PNPLA4	0.890624208	0.017290361
CTD-2139B15.2	PNPLA4	0.827550257	0.042044137
MIR210HG	ARHGAP19	0.835528196	0.0383519
RP11-91K8.5	ARHGAP19	0.906798683	0.012624932
AC011558.5	ARHGAP19	-0.847919416	0.032934058
RP5-1033H22.2	MBOAT1	0.83146351	0.040213221
RP4-784A16.3	MBOAT1	0.861596047	0.027407872
RP11-165D6.1	MBOAT1	0.839190462	0.036710318
RP4-784A16.3	MCCC2	0.847619264	0.033060701
RP3-337H4.8	BIRC5	0.889724795	0.017570424
CTD-2139B15.2	BIRC5	0.912113994	0.011246512
CTA-315H11.2	TYW3	0.881380334	0.020271411
RP11-66D17.5	TYW3	-0.870524291	0.024060676
RP11-126K1.8	TYW3	-0.881023528	0.020391021
RP3-438O4.4	TYW3	-0.901559345	0.014058871
AP001062.8	TYW3	-0.912483615	0.011153527
CTB-191K22.5	TYW3	-0.905340085	0.013016649
CDC37L1-AS1	TYW3	-0.903956714	0.013393503
RP11-680G24.6	EHBP1	0.823626394	0.043918189
RP11-126K1.8	EHBP1	-0.867150383	0.025301198
RP3-438O4.4	EHBP1	-0.854529153	0.030203441
NUP50-AS1	EHBP1	-0.90270248	0.013739663
TOPORS-AS1	EHBP1	-0.875937834	0.022132385
AC087294.2	EHBP1	-0.8425453	0.035236167
AP001062.8	EHBP1	-0.873244527	0.023082138
RP11-455F5.3	EHBP1	-0.828534458	0.041580068
JHDM1D-AS1	EHBP1	-0.81974223	0.04581075
RP11-20I23.6	EHBP1	-0.828848095	0.041432688
AC005786.7	EHBP1	-0.873112665	0.023129126
AC005944.2	EHBP1	-0.869388254	0.024475062
CTB-191K22.5	EHBP1	-0.903611881	0.013488249
RP11-20I23.8	EHBP1	-0.82238242	0.044520267
CDC37L1-AS1	EHBP1	-0.837405215	0.037506332
RP5-1142A6.10	EHBP1	-0.844497553	0.034391414
RP11-556I13.1	EHBP1	-0.819504715	0.045927685
RP3-337H4.8	KIF2C	0.902169644	0.013888012
MIR210HG	KIF2C	0.885309535	0.018976541
CTD-2139B15.2	KIF2C	0.91007503	0.011766161
RP11-91K8.5	KIF2C	0.850128914	0.032008861
CCDC144NL-AS1	PCCA	0.910069894	0.011767484
RP11-160E2.19	PCCA	-0.905351129	0.013013662
AC011558.5	ACCS	0.956083612	0.002850624
RMRP	PCCA	-0.855355431	0.029869946
RP11-66D17.5	ACER3	-0.944458507	0.004541617
LL21NC02-21A1.1	ACER3	-0.928095889	0.007569422
CTA-315H11.2	ACP1	-0.943171709	0.00475242
RP11-66D17.5	ACP1	0.955320245	0.002949824

CTB-31O20.6	STAB1	0.856485249	0.029416776
RP5-1033H22.2	SLC30A5	0.866239557	0.025641173
RP4-784A16.3	SLC30A5	0.865700905	0.025843244
RP11-21J18.1	SLC30A5	0.871326026	0.02377026
RP11-298J23.8	SLC30A5	0.851961235	0.031251044
RP11-165D6.1	SLC30A5	0.887372878	0.018312973
MIR210HG	LIN7B	0.821727488	0.044838786
CCDC144NL-AS1	CDCA5	0.830344479	0.040732897
RP11-126K1.8	ACP1	0.978549836	0.00068523
RP11-160E2.19	CDCA5	-0.814065777	0.048643287
AC011558.5	CDCA5	-0.882654435	0.019847049
RP4-784A16.3	RDX	0.813809655	0.048772951
RP3-438O4.4	ACP1	0.994248396	4.95E-05
CTD-2541M15.3	RDX	0.816287517	0.047525241
AC005944.2	RDX	-0.823550851	0.043954643
RP11-498J9.2	E2F6	0.828251891	0.041713057
RP11-34P13.14	E2F6	0.835379275	0.038419365
RP11-93O14.2	E2F6	0.887332936	0.018325711
RP11-485G7.6	E2F6	0.876247133	0.022024535
RP11-118G23.2	E2F6	0.875814096	0.022175602
RP11-78A19.3	E2F6	0.870759181	0.023975417
NUP50-AS1	ACP1	0.986281436	0.000281008
PSMD5-AS1	ACP1	0.982012952	0.000482391
Z69720.3	E2F6	0.863986007	0.026491593
RP11-66D17.5	E2F6	-0.824918349	0.043296937
LL21NC02-21A1.1	E2F6	-0.862535485	0.027045941
RP3-337H4.8	ASF1B	0.839855337	0.036415909
TOPORS-AS1	ACP1	0.97774298	0.00073755
RP11-91K8.5	ASF1B	0.863057993	0.026845625
AC011558.5	ASF1B	-0.877564874	0.021567867
RP3-438O4.4	CDCA2	-0.838771998	0.036896185
TOPORS-AS1	CDCA2	-0.866358653	0.025596597
AC087294.2	CDCA2	-0.821866671	0.044771007
RP11-455F5.3	CDCA2	-0.812287165	0.049547028
RP11-326C3.2	CDCA2	-0.82750444	0.042065799
JHDM1D-AS1	CDCA2	-0.827234976	0.042193306
RP11-20I23.6	CDCA2	-0.849310517	0.032350103
RP11-160E2.19	CDCA2	-0.83506568	0.038561614
AC005786.7	CDCA2	-0.86245168	0.027078135
AC005944.2	CDCA2	-0.816253342	0.047542347
RP11-20I23.8	CDCA2	-0.828995143	0.041363673
CDC37L1-AS1	CDCA2	-0.849343135	0.03233647
RP5-1142A6.10	CDCA2	-0.86990128	0.024287511
RP11-556I13.1	CDCA2	-0.827647584	0.041998138
RP11-473M20.11	FKBP5	-0.81354874	0.048905206
AC087294.2	ACP1	0.999403528	5.34E-07
RP11-77G23.2	FKBP5	0.888259106	0.018031441
CTD-2541M15.3	FKBP5	0.875395203	0.022322204
AC011558.5	FKBP5	-0.857322733	0.029082977
LLNLR-284B4.1	NUP160	-0.856762008	0.029306268
RP4-784A16.3	NUP160	0.875652207	0.022232204
AP001062.8	ACP1	0.99411694	5.18E-05
CTD-2541M15.3	NUP160	0.847424646	0.033142939
PSMD5-AS1	NUP160	-0.842407819	0.035296019
AP006621.8	NUP160	-0.831355843	0.040263086
RP11-160E2.19	NUP160	-0.865526969	0.025908656
AC005944.2	NUP160	-0.876528266	0.021926724
RP5-1142A6.10	NUP160	-0.841337237	0.03576373
AC011558.5	NUP160	-0.86028339	0.027917411
RP11-455F5.3	ACP1	0.999211187	9.33E-07
RP11-326C3.2	ACP1	0.985206645	0.000326646
AP006621.8	ACP1	0.983480288	0.000407097
JHDM1D-AS1	ACP1	0.999601637	2.38E-07

RP11-20I23.6	ACP1	0.99483675	3.99E-05
RP11-160E2.19	ACP1	0.936577446	0.005906074
AC005786.7	ACP1	0.990504679	0.000134814
AC005944.2	ACP1	0.965972665	0.00171709
CTB-191K22.5	ACP1	0.980531534	0.000564842
MIR210HG	UBE2T	0.888125502	0.01807375
RP11-20I23.8	ACP1	0.999257148	8.28E-07
CDC37L1-AS1	ACP1	0.995204721	3.44E-05
RP5-1142A6.10	ACP1	0.983053989	0.000428318
RP11-66D17.5	WRB	-0.871813804	0.023594393
RP11-126K1.8	WRB	-0.881604535	0.020196426
RP11-556I13.1	ACP1	0.999578698	2.66E-07
NUP50-AS1	WRB	-0.913229604	0.010967001
RP11-118G23.2	ACP5	-0.921249908	0.009058178
CTA-315H11.2	ACSL6	-0.942446349	0.004873313
RP11-66D17.5	ACSL6	0.955681117	0.00290272
RP11-126K1.8	ACSL6	0.981260389	0.000523469
RP3-438O4.4	ACSL6	0.992984084	7.37E-05
NUP50-AS1	ACSL6	0.987050944	0.000250431
PSMD5-AS1	ACSL6	0.98301162	0.000430456
TOPORS-AS1	ACSL6	0.976485076	0.000822926
AC087294.2	ACSL6	0.999258592	8.24E-07
AP001062.8	ACSL6	0.99490876	3.88E-05
RP11-455F5.3	ACSL6	0.999391731	5.55E-07
RP11-326C3.2	ACSL6	0.984757187	0.000346744
CTB-191K22.5	WRB	-0.910446869	0.011670547
AP006621.8	ACSL6	0.98436712	0.00036467
JHDM1D-AS1	ACSL6	0.999027924	1.42E-06
RP11-20I23.6	ACSL6	0.994064746	5.27E-05
RP11-160E2.19	ACSL6	0.935353646	0.006133643
AC011558.5	WRB	-0.895329677	0.015860437
AC005786.7	ACSL6	0.989533983	0.000163733
MIR210HG	TROAP	0.857105602	0.029169347
AC005944.2	ACSL6	0.966591296	0.001655568
CTB-31020.6	F13A1	0.814180578	0.04858522
CTB-191K22.5	ACSL6	0.981215241	0.000525987
MIR210HG	FAM178B	0.887729057	0.018199573
RP11-20I23.8	ACSL6	0.998769665	2.27E-06
RP11-91K8.5	FAM178B	0.905966853	0.012847618
CCDC144NL-AS1	GLRX2	0.901830626	0.013982799
CTD-2531D15.5	GLRX2	0.848189525	0.032820286
CTA-315H11.2	GLRX2	0.903796431	0.013437502
PSMD5-AS1	GLRX2	-0.890994777	0.0171756
RP11-455F5.3	GLRX2	-0.826883713	0.042359791
RP11-326C3.2	GLRX2	-0.889555945	0.017623242
AP006621.8	GLRX2	-0.897054839	0.015351068
JHDM1D-AS1	GLRX2	-0.816230985	0.04755354
RP11-20I23.6	GLRX2	-0.840153841	0.036284094
CDC37L1-AS1	ACSL6	0.993340776	6.64E-05
AC005944.2	GLRX2	-0.850228026	0.03196765
RP11-20I23.8	GLRX2	-0.824835661	0.043336574
RP5-1142A6.10	GLRX2	-0.845162436	0.034105917
RP11-556I13.1	GLRX2	-0.815965432	0.047686575
RP5-1142A6.10	ACSL6	0.982038542	0.000481024
RP11-556I13.1	ACSL6	0.99898482	1.55E-06
RP11-770G2.2	LGALS3BP	0.853914491	0.03045266
AC005943.6	LGALS3BP	0.823842036	0.043814208
CTD-2139B15.2	LGALS3BP	0.835446969	0.038388691
PSMD5-AS1	ACSL5	-0.827581237	0.042029492
AP006621.8	ACSL5	-0.824943272	0.043284993
RP11-160E2.19	ACSL5	-0.82741667	0.042107311
AC005944.2	ACSL5	-0.821922627	0.044743771
RP5-1142A6.10	ACSL5	-0.814952088	0.048195822

RP11-160E2.19	ACTN1	0.965143085	0.001801331
AC011558.5	ACTN1	0.994800627	4.05E-05
CTB-31O20.6	HAMP	0.877196071	0.021695216
AC005943.6	HAMP	0.902469427	0.013804453
RP11-473M20.11	GMNN	-0.816828828	0.047254667
CTD-2139B15.2	GMNN	0.885743038	0.018836188
RP11-91K8.5	GMNN	0.847119478	0.033272084
RP11-160E2.19	GMNN	-0.869693187	0.024363502
RP11-34P13.14	ACTR2	0.934414309	0.006311166
RP11-118G23.2	RRAGD	0.833937993	0.039075174
RP11-680G24.6	RRAGD	0.81349561	0.048932157
RP11-66D17.5	RRAGD	-0.880176935	0.020676166
RP11-126K1.8	RRAGD	-0.863797849	0.026563194
NUP50-AS1	RRAGD	-0.829652311	0.041055899
AP001062.8	RRAGD	-0.820789924	0.045296599
CTB-191K22.5	RRAGD	-0.846501214	0.033534456
RMRP	RRAGD	-0.819984865	0.045691438
CCDC144NL-AS1	ACTR3B	0.922771482	0.008716061
RP3-337H4.8	ABCC5	0.858674164	0.028548138
RP11-91K8.5	ABCC5	0.89140804	0.017048051
AC024028.1	CALHM2	0.854061973	0.030392774
RP11-160E2.19	ACTR3B	-0.92231597	0.008817809
AC011558.5	ACTR3B	-0.940464638	0.005211179
CCDC144NL-AS1	ACY1	0.935741389	0.006061086
CTD-2531D15.5	ACY1	0.923030456	0.00865847
RP11-160E2.19	ADAL	-0.946234841	0.004258329
RP11-680G24.6	CALHM2	0.868976182	0.024626203
LA16c-359F1.1	CALHM2	0.875844279	0.022165057
AC011558.5	ADAL	-0.990279888	0.000141262
AC024028.1	P4HA2	0.899021555	0.014780149
AC024028.1	ADAM10	0.980329686	0.000576576
RP11-498J9.2	ADAM10	0.99022541	0.000142847
RP11-34P13.14	ADAM10	0.991194841	0.000115955
RP11-93O14.2	ADAM10	0.976336262	0.000833333
RP11-473M20.11	P4HA2	0.835672702	0.038286488
RP11-485G7.6	ADAM10	0.925469494	0.008125194
RP11-680G24.6	P4HA2	0.848088276	0.032862911
RP11-473M20.11	ADAM10	0.939807176	0.00532572
RP11-78A19.3	ADAM10	0.977753008	0.000736888
Z69720.3	ADAM10	0.976631276	0.000812765
AC024028.1	SLC7A11	0.876418172	0.021965002
AC024028.1	ADAM28	0.998189406	4.91E-06
RP11-498J9.2	ADAM28	0.969993194	0.001337103
RP11-34P13.14	ADAM28	0.952593362	0.003317813
RP11-93O14.2	ADAM28	0.92768073	0.007655997
RP11-473M20.11	ADAM28	0.983338986	0.000414072
RP11-680G24.6	SLC7A11	0.897843787	0.015120792
RP11-78A19.3	ADAM28	0.934326645	0.00632786
Z69720.3	ADAM28	0.940466856	0.005210794
RP11-160E2.19	ADAM8	0.947366701	0.004082492
AC011558.5	ADAM8	0.983630648	0.00039974
RP11-93O14.2	ADAMTS14	0.9420764	0.004935544
RP11-485G7.6	ADAMTS14	0.970778583	0.001268361
RP11-78A19.3	ADAMTS14	0.955550435	0.002919735
RP11-473M20.11	DIRAS1	0.880717371	0.020493921
LA16c-359F1.1	ADAMTS14	0.95199169	0.003401872
RP11-680G24.6	DIRAS1	0.865617905	0.025874449
LA16c-359F1.1	DIRAS1	0.90153712	0.014065112
RP5-1033H22.2	ADAMTS3	0.934553929	0.006284623
RP11-21J18.1	ADAMTS3	0.937712634	0.005698745
RP11-298J23.8	ADAMTS3	0.922873323	0.008693391
RP11-165D6.1	ADAMTS3	0.949691077	0.003732816
AC024028.1	ADAMTS7	0.977872551	0.000729019

RP11-498J9.2	ADAMTS7	0.998278236	4.44E-06
RP11-473M20.11	PRSS23	0.888808998	0.017857807
RP11-34P13.14	ADAMTS7	0.97758038	0.000748325
RP11-680G24.6	PRSS23	0.876181133	0.022047527
RP11-93O14.2	ADAMTS7	0.974673438	0.000954029
RP11-485G7.6	ADAMTS7	0.953365866	0.003211405
RP11-498J9.2	WWC2	0.839610077	0.036524382
RP11-34P13.14	WWC2	0.885309106	0.01897668
RP11-93O14.2	WWC2	0.910874172	0.011561138
RP11-485G7.6	WWC2	0.835000914	0.038591022
RP11-473M20.11	ADAMTS7	0.936775995	0.00586955
RP11-78A19.3	WWC2	0.891173527	0.017120375
RP11-78A19.3	ADAMTS7	0.977294449	0.00076746
Z69720.3	ADAMTS7	0.980977917	0.000539318
Z69720.3	WWC2	0.873050368	0.02315134
LL21NC02-21A1.1	WWC2	-0.871879336	0.023570813
LLNLR-284B4.1	TOP2A	-0.915406778	0.010431345
RP11-77G23.2	TOP2A	0.877506549	0.021587983
AC024028.1	ADAMTSL4	0.985934808	0.000295353
AC011558.5	TOP2A	-0.86749913	0.025171596
CTD-2541M15.3	RFC5	0.870433426	0.024093696
RP11-91K8.5	RFC5	0.864981501	0.026114299
RP11-160E2.19	RFC5	-0.892219978	0.016798785
RP11-498J9.2	ADAMTSL4	0.976389038	0.000829635
AC024028.1	STXBP6	0.874160196	0.022757107
RP11-34P13.14	ADAMTSL4	0.937984861	0.005649565
RP11-93O14.2	ADAMTSL4	0.933188642	0.006546522
RP11-485G7.6	ADAMTSL4	0.922443427	0.008789281
RP11-473M20.11	ADAMTSL4	0.965866413	0.001727768
RP11-78A19.3	ADAMTSL4	0.93935558	0.005405101
RP11-680G24.6	STXBP6	0.883784722	0.019474185
LA16c-359F1.1	STXBP6	0.898036592	0.015064772
Z69720.3	ADAMTSL4	0.941322533	0.005063553
LLNLR-284B4.1	SEPT8	-0.837484946	0.03747061
RP4-784A16.3	SEPT8	0.865335288	0.025980833
RP11-21J18.1	SEPT8	0.887759422	0.018189921
RP11-165D6.1	SEPT8	0.838361943	0.037078745
RP11-77G23.2	SEPT8	0.867236843	0.025269039
RP3-337H4.8	CENPH	0.849489163	0.032275469
MIR210HG	CENPH	0.853451948	0.03064084
AC024028.1	ADAP1	0.957100147	0.00272112
RP11-473M20.11	ADAP1	0.98688743	0.000256782
AC011558.5	CENPH	-0.88484666	0.019126954
RP3-337H4.8	BCL11A	0.916760544	0.010104836
RP11-160E2.19	ADARB2	0.96251616	0.002081224
AC011558.5	ADARB2	0.9808883	0.000544395
CTA-315H11.2	ADC	-0.938418072	0.005571731
PSMD5-AS1	ADC	0.924548848	0.008324548
RP11-326C3.2	ADC	0.944843575	0.004479447
RP11-118G23.2	SLC25A43	0.909217767	0.011988034
RP11-680G24.6	SLC25A43	0.840822718	0.035989541
AP006621.8	ADC	0.933607819	0.006465557
RP11-160E2.19	ADC	0.983559468	0.000403215
AC011558.5	ADC	0.9706084	0.001283104
AC024028.1	ADCY3	0.978790367	0.000670002
RP11-498J9.2	ADCY3	0.975523203	0.000891338
RP11-34P13.14	ADCY3	0.982767769	0.000442866
RP11-93O14.2	ADCY3	0.942839331	0.004807631
RP11-473M20.11	ADCY3	0.938511954	0.005554933
RP11-118G23.2	SORT1	0.874874796	0.022504975
RP11-680G24.6	SORT1	0.8257575	0.042895633
RP11-78A19.3	ADCY3	0.935970758	0.006018364
Z69720.3	ADCY3	0.978411725	0.00069405

RP4-784A16.3	AGPAT5	0.852352595	0.031090296
AC024028.1	ADCY6	0.956912048	0.002744859
RP11-498J9.2	ADCY6	0.999155007	1.07E-06
RP11-77G23.2	MTFR1	0.870369323	0.024117005
CTD-2541M15.3	MTFR1	0.909032978	0.012036123
PSMD5-AS1	MTFR1	-0.811501628	0.049948627
RP11-326C3.2	MTFR1	-0.813161323	0.04910189
RP11-20I23.6	MTFR1	-0.814698825	0.048323489
RP11-160E2.19	MTFR1	-0.871846703	0.023582553
AC005786.7	MTFR1	-0.817003278	0.047167622
AC005944.2	MTFR1	-0.845779318	0.033842034
RP5-1142A6.10	MTFR1	-0.84779167	0.03298793
AC011558.5	MTFR1	-0.883341606	0.019619959
RP11-34P13.14	ADCY6	0.98014121	0.000587641
RP11-680G24.6	THRB	0.874818744	0.022524703
CTC-1337H24.3	THRB	-0.877062223	0.021741523
RP11-66D17.5	THRB	-0.873592369	0.022958407
CTB-191K22.5	THRB	-0.81670116	0.047318417
RP11-93O14.2	ADCY6	0.988002191	0.000215058
RP11-498J9.2	CD276	0.848239386	0.032799305
RP11-34P13.14	CD276	0.91300202	0.011023744
RP11-93O14.2	CD276	0.884700727	0.019174494
RP11-118G23.2	CD276	0.858120846	0.02876655
RP11-78A19.3	CD276	0.851802263	0.031316452
RP11-485G7.6	ADCY6	0.966553681	0.001659277
LA16c-359F1.1	CD276	0.848290184	0.032777936
Z69720.3	CD276	0.900468619	0.01436674
RP11-78A19.3	ADCY6	0.985885922	0.000297405
Z69720.3	ADCY6	0.987323034	0.00024004
RP11-126K1.8	HMGXB4	-0.842740442	0.035151294
RP3-438O4.4	HMGXB4	-0.824925386	0.043293564
NUP50-AS1	HMGXB4	-0.883240593	0.019653262
TOPORS-AS1	HMGXB4	-0.845559987	0.033935747
AC087294.2	HMGXB4	-0.820887748	0.04524873
AP001062.8	HMGXB4	-0.849922284	0.032094857
RP11-20I23.6	HMGXB4	-0.815801513	0.047768781
AC005786.7	HMGXB4	-0.857295632	0.029093751
AC005944.2	HMGXB4	-0.882687866	0.019835972
CTB-191K22.5	HMGXB4	-0.890650337	0.017282257
CDC37L1-AS1	HMGXB4	-0.813907342	0.048723477
RP11-91K8.5	ADD2	0.923346016	0.008588547
RP5-1142A6.10	HMGXB4	-0.837063319	0.037659692
MIR210HG	ALDH1A1	0.888108912	0.018079007
CTD-2139B15.2	ALDH1A1	0.835642603	0.038300109
RP11-91K8.5	ALDH1A1	0.81888027	0.046235777
CCDC144NL-AS1	QPCTL	0.88949449	0.017642485
RP11-66D17.5	ADH5P4	-0.944298809	0.004567524
CTB-31O20.6	QPCTL	0.901007389	0.014214265
CTA-315H11.2	QPCTL	0.832557895	0.039708012
RP11-126K1.8	QPCTL	-0.828938642	0.041390185
RP11-126K1.8	ADH5P4	-0.929291794	0.007322718
CCDC144NL-AS1	PRMT5	0.82466847	0.043416772
RP3-438O4.4	ADH5P4	-0.964271441	0.001891991
NUP50-AS1	ADH5P4	-0.952308265	0.003357515
AC005943.6	PRMT5	0.81670024	0.047318877
CTD-2139B15.2	PRMT5	0.86959992	0.024397598
BX322559.3	BTF3P4	-0.854167677	0.030349887
AC024028.1	PPT2	-0.839562445	0.036545466
RP11-473M20.11	PPT2	-0.870637359	0.024019617
RP3-337H4.8	PPT2	0.875940597	0.022131421
PSMD5-AS1	ADH5P4	-0.936010139	0.006011044
RP11-91K8.5	PPT2	0.875281604	0.02236204
AC011558.5	PPT2	-0.816018925	0.047659763

LLNLR-284B4.1	EZH2	-0.8200413	0.045663707
CTA-315H11.2	EZH2	0.824219057	0.043632687
CTD-2541M15.3	EZH2	0.838758898	0.03690201
PSMD5-AS1	EZH2	-0.821117745	0.045136277
RP11-326C3.2	EZH2	-0.840025691	0.036340656
AP006621.8	EZH2	-0.828462226	0.041614045
TOPORS-AS1	ADH5P4	-0.937098361	0.005810485
RP5-1142A6.10	EZH2	-0.813970332	0.048691588
AC087294.2	ADH5P4	-0.958594682	0.002536108
AC024028.1	PDE4A	0.828064349	0.041801433
AP001062.8	ADH5P4	-0.953732888	0.003161448
RP11-455F5.3	ADH5P4	-0.953847967	0.003145863
RP11-326C3.2	ADH5P4	-0.933790595	0.006430407
RP11-485G7.6	PDE4A	0.884299706	0.019305423
AP006621.8	ADH5P4	-0.932635223	0.006654169
JHDM1D-AS1	ADH5P4	-0.958084003	0.002598604
LA16c-359F1.1	PDE4A	0.891777584	0.016934382
RP11-20I23.6	ADH5P4	-0.955106382	0.002977915
RP3-337H4.8	POLD1	0.843328012	0.034896324
AC005786.7	ADH5P4	-0.958602652	0.002535138
AC005944.2	ADH5P4	-0.943880779	0.00463568
CTB-191K22.5	ADH5P4	-0.956955988	0.002739305
RP11-20I23.8	ADH5P4	-0.958107864	0.002595667
CDC37L1-AS1	ADH5P4	-0.972054044	0.001160552
RP5-1142A6.10	ADH5P4	-0.945405878	0.004389418
RP11-556I13.1	ADH5P4	-0.958159338	0.002589337
CTD-2139B15.2	FEN1	0.912025877	0.011268734
RP11-160E2.19	FEN1	-0.816517289	0.047410302
AC011558.5	FEN1	-0.904530187	0.013236649
CCDC144NL-AS1	SCMH1	0.889467314	0.017650997
CTA-315H11.2	ADIPOR1	-0.944876527	0.004474147
CTA-315H11.2	SCMH1	0.841968781	0.035487474
RP11-66D17.5	SCMH1	-0.812789654	0.049290923
RP11-126K1.8	SCMH1	-0.912418551	0.011169868
NUP50-AS1	SCMH1	-0.851062964	0.031621482
PSMD5-AS1	SCMH1	-0.873964208	0.022826491
AC087294.2	SCMH1	-0.848303297	0.03277242
AP001062.8	SCMH1	-0.866441395	0.025565649
RP11-455F5.3	SCMH1	-0.859561773	0.028199419
RP11-326C3.2	SCMH1	-0.830603514	0.040612324
AP006621.8	SCMH1	-0.872551748	0.023329511
JHDM1D-AS1	SCMH1	-0.840551517	0.036108834
RP11-20I23.6	SCMH1	-0.822170241	0.044623342
AC005944.2	SCMH1	-0.843464788	0.034837096
CTB-191K22.5	SCMH1	-0.85519387	0.029935016
RMRP	SCMH1	-0.876500663	0.021936318
RP11-20I23.8	SCMH1	-0.842078896	0.035439409
RP11-556I13.1	SCMH1	-0.839989811	0.0363565
RP3-337H4.8	PLK1	0.828096461	0.041786294
RP11-66D17.5	ADIPOR1	0.951982631	0.003403146
AC011558.5	PLK1	-0.813016887	0.049175311
LLNLR-284B4.1	TOPBP1	-0.899984261	0.014504486
RP4-784A16.3	TOPBP1	0.913198269	0.010974805
RP11-126K1.8	ADIPOR1	0.97485135	0.000940729
CTD-2541M15.3	TOPBP1	0.881899786	0.02009788
RP11-118G23.2	PPM1H	0.842600499	0.035212149
RP3-438O4.4	ADIPOR1	0.993732569	5.88E-05
CTC-1337H24.3	PPM1H	-0.811464604	0.049967592
CTD-2139B15.2	MECR	0.898952803	0.014799931
NUP50-AS1	ADIPOR1	0.984728925	0.000348028
RP11-498J9.2	C9orf21	0.871222957	0.023807502
RP11-34P13.14	C9orf21	0.876489106	0.021940336
RP11-93O14.2	C9orf21	0.905810058	0.012889803

RP11-485G7.6	C9orf21	0.867883563	0.0250291
RP11-78A19.3	C9orf21	0.872312783	0.02341513
RP11-680G24.6	C9orf21	0.874705973	0.02256442
LA16c-359F1.1	C9orf21	0.852883471	0.030872868
Z69720.3	C9orf21	0.901480004	0.014081157
CCDC144NL-AS1	NAT10	0.878212909	0.021344965
PSMD5-AS1	ADIPOR1	0.982812395	0.000440582
RP11-160E2.19	NAT10	-0.833674249	0.039195744
AC011558.5	NAT10	-0.873807359	0.022882091
AC024028.1	IRAK2	0.900099471	0.014471664
TOPORS-AS1	ADIPOR1	0.97975645	0.000610554
AC087294.2	ADIPOR1	0.999221438	9.09E-07
AP001062.8	ADIPOR1	0.992508201	8.40E-05
RP11-455F5.3	ADIPOR1	0.999161654	1.05E-06
RP11-473M20.11	IRAK2	0.837136004	0.037627064
RP11-326C3.2	ADIPOR1	0.987968665	0.000216259
RP11-680G24.6	IRAK2	0.885704448	0.018848661
AP006621.8	ADIPOR1	0.984630494	0.000352517
JHDM1D-AS1	ADIPOR1	0.999966534	1.68E-09
RP3-337H4.8	RANP1	0.828619094	0.041540273
CTD-2139B15.2	RANP1	0.860215113	0.027944036
CTD-2541M15.3	KLF9	0.833937535	0.039075383
RP11-91K8.5	KLF9	0.862772286	0.02695507
AC011558.5	KLF9	-0.860540669	0.027817192
RP3-337H4.8	CDC20	0.910521097	0.011651506
MIR210HG	CDC20	0.847509569	0.033107042
RP11-20I23.6	ADIPOR1	0.996532389	1.80E-05
RP11-160E2.19	ADIPOR1	0.942531331	0.004859073
MIR210HG	SLC43A1	0.835527004	0.03835244
CTD-2139B15.2	SLC43A1	0.883976001	0.01941142
RP11-118G23.2	RCN1	0.818934343	0.04620906
RP11-66D17.5	RCN1	-0.91026588	0.011717039
RP11-126K1.8	RCN1	-0.885910157	0.018782214
RP3-438O4.4	RCN1	-0.864645257	0.026241449
NUP50-AS1	RCN1	-0.890083237	0.017458552
TOPORS-AS1	RCN1	-0.869654222	0.024377744
AC087294.2	RCN1	-0.850603361	0.031811815
AP001062.8	RCN1	-0.879081561	0.021047913
RP11-455F5.3	RCN1	-0.839859477	0.03641408
JHDM1D-AS1	RCN1	-0.832582483	0.039696696
RP11-20I23.6	RCN1	-0.820454117	0.045461101
AC005786.7	RCN1	-0.852289615	0.031116138
CTB-191K22.5	RCN1	-0.88070427	0.02049833
RP11-20I23.8	RCN1	-0.829973872	0.040905694
CDC37L1-AS1	RCN1	-0.841106015	0.035865126
LL21NC02-21A1.1	RCN1	-0.84873137	0.032592618
RP5-1142A6.10	RCN1	-0.81501118	0.048166057
RP11-556I13.1	RCN1	-0.832357733	0.039800191
RP11-473M20.11	ZWINT	-0.850320008	0.031929427
CTD-2139B15.2	ZWINT	0.892553448	0.01669692
RP11-91K8.5	ZWINT	0.822491431	0.044467354
AC005786.7	ADIPOR1	0.991778411	0.000101114
RP11-770G2.2	HLA-DQA2	0.844413365	0.034427643
CTB-31O20.6	HLA-DQA2	0.877756673	0.021501779
RP11-473M20.11	GOT2	-0.859757138	0.028122938
CCDC144NL-AS1	GOT2	0.843177902	0.034961379
CTD-2531D15.5	GOT2	0.860911427	0.027673069
CTA-315H11.2	GOT2	0.81628882	0.047524589
CTD-2139B15.2	GOT2	0.840422906	0.03616547
RP11-160E2.19	GOT2	-0.845724788	0.033865322
AC011558.5	GOT2	-0.914508639	0.010650741
CCDC144NL-AS1	MUC1	0.834088062	0.039006647
CTD-2531D15.5	MUC1	0.865612664	0.025876419

RP11-770G2.2	MUC1	0.882414981	0.019926476
AC005944.2	ADIPOR1	0.966218343	0.001692525
RP11-473M20.11	ADK	-0.823958612	0.043758044
CCDC144NL-AS1	ADK	0.824382716	0.043554001
CTA-315H11.2	ADK	0.847270533	0.033208129
CTD-2541M15.3	ADK	0.835194471	0.038503164
RP11-326C3.2	ADK	-0.817526132	0.046907179
RP11-160E2.19	ADK	-0.905574276	0.012953366
CTB-191K22.5	ADIPOR1	0.978189451	0.000708362
RP11-20I23.8	ADIPOR1	0.99977418	7.65E-08
CDC37L1-AS1	ADIPOR1	0.995022655	3.71E-05
RP5-1142A6.10	ADIPOR1	0.986039245	0.000290994
RP11-556I13.1	ADIPOR1	0.999957204	2.75E-09
AC011558.5	ADK	-0.965655623	0.001749049
RP11-473M20.11	MAP1A	0.860138718	0.027973842
RP11-680G24.6	ADRA2A	0.930592169	0.007058986
RP11-680G24.6	MAP1A	0.909917498	0.011806782
AC024028.1	ADRA2B	0.964355341	0.001883169
RP11-498J9.2	ADRA2B	1	0
CCDC144NL-AS1	CYB5B	0.907112179	0.012541496
CTD-2531D15.5	CYB5B	0.867114364	0.025314602
CTA-315H11.2	CYB5B	0.847487307	0.03311645
PSMD5-AS1	CYB5B	-0.869216549	0.024537986
RP11-455F5.3	CYB5B	-0.824387294	0.043551801
RP11-326C3.2	CYB5B	-0.867629409	0.025123263
AP006621.8	CYB5B	-0.876205924	0.022038889
RP11-20I23.6	CYB5B	-0.827762951	0.041943644
RP11-160E2.19	CYB5B	-0.889081246	0.01777214
AC005944.2	CYB5B	-0.822328689	0.044546359
RP11-20I23.8	CYB5B	-0.817129656	0.047104609
RP5-1142A6.10	CYB5B	-0.831121682	0.040371634
AC011558.5	CYB5B	-0.853374342	0.030672467
CCDC144NL-AS1	TBC1D7	0.817140093	0.047099407
CTA-315H11.2	TBC1D7	0.823767253	0.043850255
RP11-34P13.14	ADRA2B	0.978552256	0.000685076
RP11-91K8.5	TBC1D7	0.814846653	0.048248951
RP11-160E2.19	TBC1D7	-0.814568401	0.048389295
AC011558.5	TBC1D7	-0.8556601	0.029747421
RP3-337H4.8	FN3K	0.895097661	0.015929552
MIR210HG	FN3K	0.834584113	0.038780535
RP11-93O14.2	ADRA2B	0.982998398	0.000431125
RP11-91K8.5	FN3K	0.845028416	0.034163374
RP11-485G7.6	ADRA2B	0.965304842	0.001784749
RP11-680G24.6	LMBR1	0.882498251	0.019898838
LA16c-359F1.1	LMBR1	0.815327181	0.04800703
CTC-1337H24.3	LMBR1	-0.821878461	0.044765268
LL21NC02-21A1.1	LMBR1	-0.872846436	0.023224132
AC024028.1	ZC3HAV1L	0.872899223	0.02320528
RP11-78A19.3	ADRA2B	0.983256999	0.000418145
Z69720.3	ADRA2B	0.986539728	0.000270549
AC024028.1	ADRB2	0.950009462	0.003686116
RP11-498J9.2	ADRB2	0.997814876	7.16E-06
RP11-118G23.2	ZC3HAV1L	0.813771572	0.048792245
RP11-34P13.14	ADRB2	0.967952102	0.001524144
RP11-93O14.2	ADRB2	0.98348652	0.000406791
RP11-485G7.6	ADRB2	0.975639625	0.000882914
RP11-78A19.3	ADRB2	0.981556958	0.000507082
RP3-337H4.8	ALAD	0.896815988	0.015421113
CTD-2139B15.2	ALAD	0.826476029	0.0425534
Z69720.3	ADRB2	0.982995814	0.000431255
RP11-118G23.2	SLFN11	0.81490554	0.048219274
RP4-784A16.3	SLFN11	0.88150236	0.020230582
RP3-339A18.6	SLFN11	0.823105893	0.044169645

RP11-77G23.2	SLFN11	0.811540898	0.049928514
RP11-66D17.5	SLFN11	-0.892208462	0.016802308
RP11-126K1.8	SLFN11	-0.879411426	0.020935631
NUP50-AS1	SLFN11	-0.881253321	0.020313951
PSMD5-AS1	SLFN11	-0.850683755	0.031778483
TOPORS-AS1	SLFN11	-0.811924111	0.049732449
AC087294.2	SLFN11	-0.822921202	0.04425903
AP001062.8	SLFN11	-0.856344551	0.029473031
RP11-455F5.3	SLFN11	-0.82238642	0.044518325
AP006621.8	SLFN11	-0.831924202	0.040000184
RP11-20I23.6	SLFN11	-0.817263225	0.047038054
AC005786.7	SLFN11	-0.838924586	0.03682836
AC005944.2	SLFN11	-0.903381086	0.013551843
CTB-191K22.5	SLFN11	-0.88651765	0.018586639
LL21NC02-21A1.1	SLFN11	-0.87431919	0.022700893
RP5-1142A6.10	SLFN11	-0.832654915	0.039663369
RP11-770G2.2	TNFSF13	0.900385363	0.014390372
CTB-31O20.6	TNFSF13	0.882210524	0.019994414
AC005943.6	TNFSF13	0.862521889	0.027051162
RP11-498J9.2	RALGPS2	0.901858635	0.013974956
RP11-34P13.14	RALGPS2	0.899017574	0.014781294
RP11-160E2.19	ADRBK1	0.958622297	0.00253275
AC011558.5	ADRBK1	0.989593081	0.000161892
RP11-118G23.2	RALGPS2	0.835678092	0.038284049
Z69720.3	RALGPS2	0.881576555	0.020205777
RP5-1033H22.2	RHOBTB3	0.838547645	0.036996016
RP3-339A18.6	RHOBTB3	0.871302816	0.023778644
RP11-21J18.1	RHOBTB3	0.872260227	0.023433981
RP11-165D6.1	RHOBTB3	0.867011702	0.025352823
CTC-1337H24.3	RHOBTB3	-0.872758466	0.023255566
MIR210HG	SPHK1	0.849802028	0.032144956
CTA-315H11.2	DHRS7B	0.81486236	0.048241035
MIR210HG	DHRS7B	0.87237099	0.023394261
RP11-91K8.5	DHRS7B	0.851422959	0.031472776
AC011558.5	DHRS7B	-0.824030092	0.043723623
RP11-473M20.11	SYT11	0.878082042	0.021389889
RP11-680G24.6	SYT11	0.878073212	0.021392922
RP11-485G7.6	AFF3	0.917031853	0.010040006
RP11-473M20.11	AFF3	0.869600167	0.024397508
RP11-680G24.6	AFF3	0.902574138	0.013775324
LA16c-359F1.1	AFF3	0.900683271	0.014305898
CCDC144NL-AS1	UCK2	0.910793577	0.011581736
CTD-2531D15.5	UCK2	0.912202733	0.011224154
CTA-315H11.2	UCK2	0.845956121	0.033766581
RP11-326C3.2	UCK2	-0.816575047	0.04738143
RP11-160E2.19	UCK2	-0.871928265	0.023553214
AC011558.5	UCK2	-0.898827618	0.014835984
CCDC144NL-AS1	ZNF828	0.886097333	0.01872185
RP11-126K1.8	ZNF828	-0.852159511	0.031169554
RP3-438O4.4	ZNF828	-0.883965234	0.01941495
NUP50-AS1	ZNF828	-0.87507527	0.022434483
TOPORS-AS1	ZNF828	-0.90211806	0.013902414
AC087294.2	ZNF828	-0.914168235	0.010734472
AP001062.8	ZNF828	-0.885869318	0.018795396
AC005944.2	ZNF828	-0.91408806	0.01075424
CTB-191K22.5	ZNF828	-0.860134943	0.027975315
CDC37L1-AS1	ZNF828	-0.893512505	0.016405618
RP3-337H4.8	PRC1	0.847017906	0.033315122
MIR210HG	PRC1	0.874736506	0.022553663
CTD-2139B15.2	PRC1	0.863237784	0.026776862
AC011558.5	PRC1	-0.878588836	0.021216165
RP3-337H4.8	HAUS7	0.833621128	0.039220049
RP11-680G24.6	AK4	0.82369892	0.043883205

RP11-66D17.5	AK4	-0.822846429	0.044295242
RMRP	AK4	-0.839681295	0.036492868
LL21NC02-21A1.1	AK4	-0.829368603	0.041188637
RP11-473M20.11	RAB27B	0.851252962	0.031542957
RP11-498J9.2	F2RL3	0.884807201	0.019139803
RP11-93O14.2	F2RL3	0.909613963	0.011885243
RP11-485G7.6	F2RL3	0.828731527	0.041487435
RP11-78A19.3	F2RL3	0.876714761	0.021861954
RP11-680G24.6	F2RL3	0.895186121	0.015903184
LA16c-359F1.1	F2RL3	0.842494752	0.035258167
AC024028.1	IL7	0.898483585	0.014935281
RP11-485G7.6	IL7	0.909388663	0.011943643
RP11-473M20.11	IL7	0.819301294	0.046027945
RP11-680G24.6	IL7	0.917175221	0.010005829
LA16c-359F1.1	IL7	0.90441476	0.013268148
CCDC144NL-AS1	DTYMK	0.827797679	0.041927246
CTD-2531D15.5	DTYMK	0.849383594	0.032319563
RP11-770G2.2	DTYMK	0.860923766	0.027668278
RP11-680G24.6	HS2ST1	0.904184619	0.01333106
RP3-339A18.6	HS2ST1	0.88576713	0.018828402
CTC-1337H24.3	HS2ST1	-0.830138188	0.040829038
LL21NC02-21A1.1	HS2ST1	-0.853810968	0.03049473
RP11-680G24.6	RREB1	0.845110386	0.034128226
RP3-339A18.6	RREB1	0.905445519	0.01298814
CTC-1337H24.3	RREB1	-0.86532327	0.025985361
LL21NC02-21A1.1	RREB1	-0.860424586	0.027862389
RP3-337H4.8	CPVL	0.891362711	0.017062019
MIR210HG	CPVL	0.887629576	0.018231211
CTD-2139B15.2	CPVL	0.844517244	0.034382942
RP3-339A18.6	LRP5	0.908997449	0.012045379
RP11-126K1.8	LRP5	-0.812486065	0.04944558
CCDC144NL-AS1	RAD51C	0.843846603	0.034672012
CTA-315H11.2	RAD51C	0.836702048	0.037822062
CTD-2139B15.2	RAD51C	0.865647444	0.025863341
RP11-326C3.2	RAD51C	-0.825357049	0.043086922
RP11-160E2.19	RAD51C	-0.879658668	0.020851661
RP11-770G2.2	ACY1	0.897887917	0.015107961
CTB-31O20.6	ACY1	0.87345424	0.023007503
CTA-315H11.2	ACY1	0.845084011	0.034139534
CTD-2139B15.2	ACY1	0.837665408	0.037389817
CTA-315H11.2	SLC39A8	0.829920532	0.040930592
RP11-77G23.2	SLC39A8	0.814376362	0.048486266
PSMD5-AS1	SLC39A8	-0.826643519	0.042473809
RP11-326C3.2	SLC39A8	-0.817729893	0.046805863
AP006621.8	SLC39A8	-0.824942178	0.043285517
RP11-160E2.19	SLC39A8	-0.899285595	0.014704294
AC005944.2	SLC39A8	-0.825386613	0.043072786
RP11-680G24.6	PLAGL1	0.869830832	0.024313225
RP3-339A18.6	PLAGL1	0.909345057	0.011954962
CTC-1337H24.3	PLAGL1	-0.871768388	0.023610741
LL21NC02-21A1.1	PLAGL1	-0.83881774	0.036875846
CCDC144NL-AS1	SNRPEL1	0.837160274	0.037616172
RP11-770G2.2	SNRPEL1	0.83629204	0.038006733
RP11-473M20.11	ANKRD57	0.897331109	0.01527024
RP11-680G24.6	ANKRD57	0.877814298	0.021481942
RP3-337H4.8	AURKB	0.891207789	0.017109799
MIR210HG	AURKB	0.848312182	0.032768684
RP3-337H4.8	C11orf74	0.896277565	0.015579575
MIR210HG	C11orf74	0.901934206	0.013953806
RP11-91K8.5	C11orf74	0.91439664	0.010678255
AC011558.5	C11orf74	-0.824960841	0.043276574
RP3-337H4.8	RFC4	0.852461839	0.031045494
RP11-91K8.5	RFC4	0.895660113	0.015762254

AC011558.5	RFC4	-0.889097665	0.01776698
CTB-31O20.6	HSD17B14	0.842338405	0.035326257
RP11-93O14.2	ZBTB16	0.841295782	0.035781899
RP11-485G7.6	ZBTB16	0.831198549	0.040335986
RP11-118G23.2	ZBTB16	0.880518336	0.02056095
RP11-78A19.3	ZBTB16	0.838952808	0.036815821
BX322559.3	ZBTB16	-0.843956333	0.034624637
LL21NC02-21A1.1	ZBTB16	-0.831119427	0.04037268
RP11-473M20.11	MCM3	-0.853401585	0.030661363
CCDC144NL-AS1	MCM3	0.812425133	0.049476648
CTD-2139B15.2	MCM3	0.878197835	0.021350137
RP11-160E2.19	MCM3	-0.83412539	0.038989611
RP11-473M20.11	NPM2	0.849972182	0.03207408
AC024028.1	AEBP1	0.929288974	0.007323294
RP11-680G24.6	NPM2	0.897227976	0.01530039
RP11-473M20.11	AEBP1	0.926393209	0.00792754
RP11-473M20.11	MEIS1	0.879943408	0.020755155
RP11-680G24.6	MEIS1	0.872178135	0.02346344
CTA-315H11.2	IDH1	0.814340386	0.048504442
CTD-2541M15.3	IDH1	0.836155387	0.038068377
PSMD5-AS1	IDH1	-0.81667513	0.04733142
RP11-326C3.2	IDH1	-0.854167918	0.030349789
AP006621.8	IDH1	-0.824594801	0.043452131
RP11-20I23.6	IDH1	-0.818642178	0.0463535
RP5-1142A6.10	IDH1	-0.847391806	0.033156825
CTA-315H11.2	WBP5	0.873827522	0.02287494
PSMD5-AS1	WBP5	-0.881676521	0.020172378
RP11-326C3.2	WBP5	-0.847003008	0.033321437
AP006621.8	WBP5	-0.875813488	0.022175815
RP11-20I23.6	WBP5	-0.819129859	0.046112518
RP11-160E2.19	WBP5	-0.897093373	0.015339782
AC005944.2	WBP5	-0.884966047	0.019088104
RP5-1142A6.10	WBP5	-0.821556027	0.044922348
AC011558.5	WBP5	-0.848978903	0.03248886
RP4-784A16.3	UBA5	0.854977318	0.030022339
RP11-66D17.5	UBA5	-0.898104305	0.015045121
RP11-126K1.8	UBA5	-0.905524794	0.012966725
RP3-438O4.4	UBA5	-0.826605448	0.042491894
NUP50-AS1	UBA5	-0.904181086	0.013332027
PSMD5-AS1	UBA5	-0.895037282	0.015947562
TOPORS-AS1	UBA5	-0.841892047	0.035520986
AC087294.2	UBA5	-0.859966679	0.028041017
AP001062.8	UBA5	-0.885645738	0.018867646
RP11-455F5.3	UBA5	-0.862560041	0.027036511
RP11-326C3.2	UBA5	-0.839388093	0.03662269
AP006621.8	UBA5	-0.880131942	0.020691374
JHDM1D-AS1	UBA5	-0.840850509	0.035977327
RP11-20I23.6	UBA5	-0.858750007	0.028518262
RP11-160E2.19	UBA5	-0.820039879	0.045664406
AC005786.7	UBA5	-0.870848761	0.02394294
CTB-191K22.5	UBA5	-0.906635619	0.012668437
RP11-20I23.8	UBA5	-0.849055804	0.032456658
CDC37L1-AS1	UBA5	-0.815536194	0.047901978
LL21NC02-21A1.1	UBA5	-0.850382805	0.031903344
RP5-1142A6.10	UBA5	-0.871564394	0.023684239
RP11-556I13.1	UBA5	-0.840280082	0.036228415
RP11-498J9.2	SLC1A4	0.870920958	0.02391678
RP11-93O14.2	SLC1A4	0.869464727	0.024447061
RP11-78A19.3	SLC1A4	0.866303327	0.0256173
LA16c-359F1.1	SLC1A4	0.878840229	0.021130241
Z69720.3	SLC1A4	0.880582343	0.020539383
AC024028.1	LRP12	0.848794854	0.032565993
RP11-485G7.6	LRP12	0.906262339	0.012768299

RP11-118G23.2	LRP12	0.830277118	0.040764279
CCDC144NL-AS1	AVPI1	0.89275197	0.016636419
CTB-31O20.6	AVPI1	0.821030905	0.045178721
CTA-315H11.2	AVPI1	0.899143024	0.014745229
RP11-66D17.5	AVPI1	-0.867540637	0.025156193
NUP50-AS1	AVPI1	-0.902706296	0.013738603
PSMD5-AS1	AVPI1	-0.890679247	0.017273293
TOPORS-AS1	AVPI1	-0.876345871	0.021990159
RP11-326C3.2	AVPI1	-0.896745941	0.015441685
AP006621.8	AVPI1	-0.898175939	0.015024346
RP11-20I23.6	AVPI1	-0.901194866	0.014161392
AC005786.7	AVPI1	-0.886986689	0.018436309
AC005944.2	AVPI1	-0.842741695	0.035150749
CTB-191K22.5	AVPI1	-0.897445931	0.015236708
RP5-1142A6.10	AVPI1	-0.863620372	0.026630814
CTA-315H11.2	AFAP1L2	-0.920602238	0.009205745
RP11-326C3.2	AFAP1L2	0.921712234	0.00895355
RP11-160E2.19	AFAP1L2	0.973239235	0.001064626
AC005944.2	GBE1	-0.845713028	0.033870345
AC011558.5	AFAP1L2	0.978935214	0.000660914
AC024028.1	AFF3	0.936026509	0.006008002
RP11-498J9.2	AFF3	0.977688242	0.000741168
RP11-34P13.14	AFF3	0.993501152	6.32E-05
RP11-93O14.2	AFF3	0.973572016	0.001038428
RP11-473M20.11	RTN4RL2	0.883174495	0.019675069
RP11-78A19.3	AFF3	0.961658996	0.002176868
RP11-680G24.6	RTN4RL2	0.860607891	0.027791034
LA16c-359F1.1	RTN4RL2	0.915047608	0.010518817
Z69720.3	AFF3	0.992774095	7.81E-05
CTD-2139B15.2	AFF4	-0.935376896	0.006129281
RP11-680G24.6	EHD2	0.881580953	0.020204307
RP3-339A18.6	EHD2	0.903403801	0.013545577
LL21NC02-21A1.1	EHD2	-0.850071754	0.032032639
RP11-498J9.2	LAMA5	0.915754595	0.010346975
RP11-34P13.14	LAMA5	0.864548213	0.0262782
CTD-2139B15.2	AFMID	0.922306213	0.008819994
LLNLR-284B4.1	AGAP1	-0.94815841	0.003961662
CTA-315H11.2	AGER	-0.926648173	0.007873401
RP11-680G24.6	LAMA5	0.849505841	0.032268505
RP11-66D17.5	AGER	0.975528682	0.000890941
RP11-126K1.8	AGER	0.99224587	9.00E-05
AC024028.1	LRRC16A	0.901068519	0.014197014
RP3-438O4.4	AGER	0.988617087	0.000193619
NUP50-AS1	AGER	0.995465305	3.08E-05
PSMD5-AS1	AGER	0.983840212	0.000389598
TOPORS-AS1	AGER	0.967481088	0.001569025
RP11-473M20.11	LRRC16A	0.826540407	0.042522799
AC087294.2	AGER	0.995981018	2.42E-05
RP11-680G24.6	LRRC16A	0.915976554	0.010293309
AP001062.8	AGER	0.998767532	2.28E-06
RP11-455F5.3	AGER	0.995306026	3.30E-05
NUP50-AS1	CBWD1	-0.812113002	0.049635937
TOPORS-AS1	CBWD1	-0.860011007	0.028023701
RP11-20I23.6	CBWD1	-0.812155797	0.049614084
AC005786.7	CBWD1	-0.833633364	0.03921445
RP5-1142A6.10	CBWD1	-0.848276532	0.032783678
RP3-339A18.6	CLEC11A	0.887500616	0.018272265
RP11-156P1.3	CLEC11A	0.840802823	0.035998286
RP11-326C3.2	AGER	0.971958366	0.001168475
RP4-784A16.3	TMPO	0.856877787	0.029260096
AP006621.8	AGER	0.981150965	0.000529581
JHDM1D-AS1	AGER	0.991887596	9.84E-05
CTA-315H11.2	ADH5P4	0.897982078	0.015080601

RP11-20I23.6	AGER	0.987383054	0.000237777
RP11-160E2.19	AGER	0.920430319	0.00924511
AC005786.7	AGER	0.987280953	0.000241632
AC005944.2	AGER	0.980708415	0.000554658
CTB-191K22.5	AGER	0.994932707	3.85E-05
RP11-20I23.8	AGER	0.992578367	8.24E-05
CDC37L1-AS1	AGER	0.988468045	0.000198712
RP5-1142A6.10	AGER	0.975880432	0.000865614
RP11-556I13.1	AGER	0.991761105	0.000101539
CTD-2139B15.2	AGFG2	0.956418769	0.002807598
LLNLR-284B4.1	AGPAT5	-0.917629255	0.009897969
RP11-77G23.2	AGPAT5	0.978896331	0.000663348
CTD-2541M15.3	AGPAT5	0.953591402	0.00318066
RP11-160E2.19	ADH5P4	-0.891724253	0.016950763
CTA-315H11.2	AGRN	0.950450424	0.003621915
PSMD5-AS1	AGRN	-0.960053578	0.002361703
TOPORS-AS1	AGRN	-0.917920784	0.009829013
AC087294.2	AGRN	-0.932425909	0.006695106
RP11-455F5.3	AGRN	-0.941539762	0.005026502
LL21NC02-21A1.1	ADH5P4	-0.870680031	0.02400413
RP11-326C3.2	AGRN	-0.979906217	0.000601584
AP006621.8	AGRN	-0.96763794	0.001554008
CCDC144NL-AS1	ATG7	0.883911183	0.019432678
CTD-2531D15.5	ATG7	0.824759469	0.043373114
CTA-315H11.2	ATG7	0.839078454	0.036760024
CTD-2139B15.2	ATG7	0.909336113	0.011957285
AC011558.5	ATG7	-0.823128922	0.044158505
RP11-485G7.6	PPP1R14A	0.845561739	0.033934998
RMRP	PPP1R14A	-0.886000624	0.018753027
JHDM1D-AS1	AGRN	-0.940711168	0.005168543
RP11-20I23.6	AGRN	-0.956009284	0.00286021
RP11-160E2.19	AGRN	-0.99224452	9.00E-05
AC024028.1	YES1	0.915403167	0.010432222
AC005786.7	AGRN	-0.932399315	0.006700316
AC005944.2	AGRN	-0.923143775	0.008633329
RP11-20I23.8	AGRN	-0.944552557	0.004526394
RP5-1142A6.10	AGRN	-0.959510778	0.002425877
RP11-473M20.11	YES1	0.842677975	0.035178452
RP11-556I13.1	AGRN	-0.940695305	0.005171282
AC011558.5	AGRN	-0.944698544	0.004502814
CTA-315H11.2	AGXT2L2	-0.924760512	0.008278506
RP11-326C3.2	AGXT2L2	0.92848093	0.007489557
RP11-498J9.2	SRGAP2P2	0.863401667	0.026714256
RP11-34P13.14	SRGAP2P2	0.874472214	0.022646853
RP11-93O14.2	SRGAP2P2	0.915641004	0.010374492
RP11-485G7.6	SRGAP2P2	0.896373259	0.015551354
RP11-118G23.2	SRGAP2P2	0.87375622	0.022900233
RP11-78A19.3	SRGAP2P2	0.908023481	0.012300474
AP006621.8	AGXT2L2	0.923219648	0.008616515
RP11-160E2.19	AGXT2L2	0.977680505	0.00074168
Z69720.3	SRGAP2P2	0.890086902	0.01745741
LL21NC02-21A1.1	SRGAP2P2	-0.815785843	0.047776643
RP11-77G23.2	CTNND1	0.864749023	0.026202179
CTD-2541M15.3	CTNND1	0.816412078	0.047462916
RP11-66D17.5	CTNND1	-0.911026004	0.011522382
RP11-126K1.8	CTNND1	-0.876379576	0.02197843
RP3-438O4.4	CTNND1	-0.876594722	0.021903633
NUP50-AS1	CTNND1	-0.915278112	0.010462639
PSMD5-AS1	CTNND1	-0.914781459	0.010583863
TOPORS-AS1	CTNND1	-0.893021435	0.016554467
AC087294.2	CTNND1	-0.892590978	0.016685474
AP001062.8	CTNND1	-0.896665699	0.015465266
RP11-455F5.3	CTNND1	-0.890308141	0.017388533

RP11-326C3.2	CTNND1	-0.88782716	0.018168398
AP006621.8	CTNND1	-0.902235465	0.013869645
JHDM1D-AS1	CTNND1	-0.883170946	0.01967624
RP11-20I23.6	CTNND1	-0.908621784	0.012143464
RP11-160E2.19	CTNND1	-0.89474411	0.016035149
AC011558.5	AGXT2L2	0.972869921	0.001094077
CTD-2531D15.5	AHCY	0.939404111	0.005396543
RP11-770G2.2	AHCY	0.974120344	0.000995968
RP11-20I23.8	CTNND1	-0.890724786	0.017259177
CDC37L1-AS1	CTNND1	-0.879887355	0.020774136
LL21NC02-21A1.1	CTNND1	-0.856405655	0.029448594
CTB-31O20.6	AHCY	0.935574625	0.00609224
RP11-556I13.1	CTNND1	-0.882994244	0.019734596
AC011558.5	CTNND1	-0.811834021	0.04977851
RP11-498J9.2	C6orf223	0.812168484	0.049607606
RP11-93O14.2	C6orf223	0.860203114	0.027948717
RP11-485G7.6	C6orf223	0.884300348	0.019305213
RP11-78A19.3	C6orf223	0.832985103	0.039511609
RP11-680G24.6	C6orf223	0.834116424	0.038993702
LA16c-359F1.1	C6orf223	0.858621077	0.028569059
Z69720.3	C6orf223	0.832136053	0.039902396
RP11-66D17.5	C6orf223	-0.816986679	0.047175901
RMRP	C6orf223	-0.848641913	0.032630154
LL21NC02-21A1.1	C6orf223	-0.847985807	0.032906077
AC024028.1	AHNAK	0.919001992	0.009575315
RP11-498J9.2	AHNAK	0.95437461	0.003075026
RP11-34P13.14	AHNAK	0.988012161	0.000214701
RP11-93O14.2	AHNAK	0.954763529	0.003023223
RP11-78A19.3	AHNAK	0.938139178	0.005621779
Z69720.3	AHNAK	0.978667933	0.000677732
RP3-337H4.8	CCNB2	0.857131292	0.029159122
MIR210HG	CCNB2	0.824354468	0.043567578
AC024028.1	AHR	0.966107369	0.001703599
RP11-498J9.2	AHR	0.999530928	3.30E-07
AC011558.5	CCNB2	-0.886867291	0.018474521
RP4-784A16.3	TBC1D23	0.865300778	0.025993837
RP11-34P13.14	AHR	0.983954994	0.000384098
RP11-66D17.5	TBC1D23	-0.81618336	0.047577386
AC005944.2	TBC1D23	-0.839882618	0.036403853
LL21NC02-21A1.1	TBC1D23	-0.815626752	0.047856496
RP11-93O14.2	AHR	0.985207975	0.000326588
CTD-2139B15.2	VAR5	0.849566367	0.03224324
LLNLR-284B4.1	GBAS	-0.84910738	0.032435069
CTA-315H11.2	GBAS	0.819475765	0.045941947
RP11-77G23.2	GBAS	0.881463488	0.020243585
RP11-485G7.6	AHR	0.95944276	0.002433978
PSMD5-AS1	GBAS	-0.870163499	0.024191915
RP11-326C3.2	GBAS	-0.863775382	0.02657175
AP006621.8	GBAS	-0.867085011	0.025325527
RP11-20I23.6	GBAS	-0.839774552	0.036451622
RP11-78A19.3	AHR	0.98475181	0.000346988
AC005786.7	GBAS	-0.823087964	0.044178318
AC005944.2	GBAS	-0.877407644	0.021622115
RP5-1142A6.10	GBAS	-0.868063194	0.024962648
Z69720.3	AHR	0.987471297	0.000234469
AC024028.1	AHRR	0.953355964	0.003212758
RP3-339A18.6	SLC25A13	0.862092084	0.027216483
RP11-21J18.1	SLC25A13	0.866305728	0.025616401
RP11-498J9.2	AHRR	0.995715364	2.75E-05
RP11-34P13.14	AHRR	0.98846434	0.00019884
RP11-93O14.2	AHRR	0.985049324	0.000333613
RP11-156P1.3	NSUN4	0.816975993	0.047181231
CTB-31O20.6	NSUN4	0.908949464	0.012057887

RP11-485G7.6	AHRR	0.953014333	0.003259615
RP11-66D17.5	NSUN4	-0.83804446	0.037220381
RP11-78A19.3	AHRR	0.979319826	0.000637082
RP3-438O4.4	NSUN4	-0.908907545	0.012068818
NUP50-AS1	NSUN4	-0.891525772	0.017011798
Z69720.3	AHRR	0.994899266	3.90E-05
TOPORS-AS1	NSUN4	-0.849447543	0.032292849
AC024028.1	AHSA2	0.97212523	0.001154675
RP11-498J9.2	AHSA2	0.977214614	0.000772846
RP11-34P13.14	AHSA2	0.989329767	0.000170173
RP11-93O14.2	AHSA2	0.97299047	0.00108442
RP11-473M20.11	AHSA2	0.93373346	0.006441385
RP11-78A19.3	AHSA2	0.976675115	0.00080973
Z69720.3	AHSA2	0.961300594	0.002217487
RP11-160E2.19	NSUN4	-0.89457669	0.01608527
AC005786.7	NSUN4	-0.887914894	0.01814054
AC005944.2	NSUN4	-0.89030862	0.017388384
CTB-191K22.5	NSUN4	-0.894594381	0.01607997
RMRP	NSUN4	-0.840901331	0.035954996
RP11-66D17.5	AHSP	0.942093299	0.004932693
RP11-126K1.8	AHSP	0.944107945	0.004598581
RP5-1142A6.10	NSUN4	-0.884809047	0.019139202
NUP50-AS1	AHSP	0.920154578	0.009308418
RP3-337H4.8	CDT1	0.896804268	0.015424554
MIR210HG	CDT1	0.838492106	0.037020749
AC005944.2	AHSP	0.917717544	0.009877061
RP11-91K8.5	CDT1	0.825776058	0.042886778
RP11-498J9.2	C7orf58	0.893101057	0.016530288
CTB-191K22.5	AHSP	0.937981064	0.005650249
LL21NC02-21A1.1	AHSP	0.961294529	0.002218178
RP11-485G7.6	C7orf58	0.842959778	0.035056013
RP11-118G23.2	C7orf58	0.864101816	0.026447569
RP11-78A19.3	C7orf58	0.901945069	0.013950767
AC024028.1	AIF1	0.925552933	0.008107242
LA16c-359F1.1	C7orf58	0.904080925	0.013359453
RP11-473M20.11	AIF1	0.9715423	0.001203238
RP11-498J9.2	AIFM3	0.9471595	0.004114409
CTD-2531D15.5	PCBD1	0.911805139	0.011324496
RP11-770G2.2	PCBD1	0.812883678	0.04924307
RP11-156P1.3	PCBD1	0.892143473	0.016822196
CTB-31O20.6	PCBD1	0.859799179	0.028106493
RP11-34P13.14	AIFM3	0.978758409	0.000672016
RP11-126K1.8	PCBD1	-0.864254818	0.02638946
PSMD5-AS1	PCBD1	-0.882180182	0.020004506
AC087294.2	PCBD1	-0.843219664	0.034943275
AP001062.8	PCBD1	-0.837162156	0.037615328
RP11-455F5.3	PCBD1	-0.860222543	0.027941138
RP11-326C3.2	PCBD1	-0.869772011	0.024334704
AP006621.8	PCBD1	-0.890817471	0.017230464
JHDM1D-AS1	PCBD1	-0.848567608	0.032661348
RP11-20I23.6	PCBD1	-0.833724062	0.039172959
RP11-160E2.19	PCBD1	-0.838889181	0.036844092
AC005944.2	PCBD1	-0.817461104	0.046939534
RMRP	PCBD1	-0.843354939	0.03488466
RP11-20I23.8	PCBD1	-0.849717908	0.032180022
RP11-556I13.1	PCBD1	-0.848208871	0.032812145
RP11-767C1.1	BOLA2B	0.873710172	0.022916575
RP11-93O14.2	AIFM3	0.952920525	0.00327254
RP11-93O14.2	ARHGAP18	0.821935223	0.044737642
RP11-78A19.3	AIFM3	0.935118491	0.006177852
RP11-680G24.6	AIFM3	0.929111865	0.007359581
Z69720.3	AIFM3	0.981036849	0.000535992
RP11-66D17.5	ARHGAP18	-0.820757123	0.045312655

AC024028.1	AK5	0.94135822	0.005057457
RP11-118G23.2	DLC1	0.8302492	0.040777288
RP5-1033H22.2	DLC1	0.816481085	0.047428404
RP11-473M20.11	AK5	0.98220122	0.000472376
RP11-165D6.1	DLC1	0.814977887	0.048182826
RP3-337H4.8	MCM2	0.84746008	0.033127959
AC024028.1	AKAP12	0.962875877	0.002041719
RP11-498J9.2	AKAP12	0.999960228	2.37E-09
RP11-34P13.14	AKAP12	0.978776001	0.000670907
RP11-770G2.2	PPRC1	0.868303013	0.024874062
RP11-156P1.3	PPRC1	0.90856685	0.01215784
CTB-31O20.6	PPRC1	0.856682311	0.02933807
CTA-315H11.2	PPRC1	0.86441519	0.026328617
AP006621.8	PPRC1	-0.818279041	0.04653332
RP3-337H4.8	TRIB3	0.840054078	0.036328123
RP11-767C1.1	TRIB3	0.840655244	0.036063185
MIR210HG	TRIB3	0.87580243	0.022179679
RP11-118G23.2	ATP11B	0.8248392	0.043334878
RP11-93O14.2	AKAP12	0.984349065	0.000365511
CTC-1337H24.3	ATP11B	-0.835564554	0.038335438
RP11-77G23.2	ATP11B	0.903508279	0.013516778
CTA-315H11.2	RPE	0.859268851	0.028314276
RP11-77G23.2	RPE	0.824136703	0.043672308
CTD-2541M15.3	RPE	0.82496181	0.04327611
RP11-66D17.5	RPE	-0.915865988	0.010320025
RP11-126K1.8	RPE	-0.90553631	0.012963615
RP3-438O4.4	RPE	-0.889887727	0.017519529
RP11-485G7.6	AKAP12	0.966493239	0.001665245
RP11-78A19.3	AKAP12	0.984749867	0.000347076
TOPORS-AS1	RPE	-0.884767566	0.019152713
AC087294.2	RPE	-0.911444726	0.011415828
AP001062.8	RPE	-0.915426783	0.010426483
RP11-455F5.3	RPE	-0.912402397	0.011173927
RP11-326C3.2	RPE	-0.909183571	0.011996926
Z69720.3	AKAP12	0.986379923	0.000276996
JHDM1D-AS1	RPE	-0.903850567	0.013422633
AC024028.1	AKAP13	0.922892622	0.008689099
RP11-160E2.19	RPE	-0.911412932	0.011423902
RP11-473M20.11	AKAP13	0.96315681	0.002011125
RP5-1033H22.2	AKAP2	0.926721832	0.007857794
RP3-339A18.6	AKAP2	0.955519585	0.002923759
RP11-20I23.8	RPE	-0.910941418	0.011543966
CDC37L1-AS1	RPE	-0.896772075	0.015434008
LL21NC02-21A1.1	RPE	-0.86563014	0.025869847
RP11-165D6.1	AKAP2	0.923537431	0.008546267
RP11-556I13.1	RPE	-0.903619361	0.01348619
CCDC144NL-AS1	AKAP9	-0.94502166	0.004450838
CTA-315H11.2	AKNA	-0.968778053	0.001446997
RP11-66D17.5	ZNF768	-0.819623996	0.045868942
RP11-126K1.8	ZNF768	-0.882250374	0.019981164
RP3-438O4.4	AKNA	0.93539944	0.006125052
NUP50-AS1	ZNF768	-0.889346458	0.017688877
NUP50-AS1	AKNA	0.928780277	0.007427751
PSMD5-AS1	AKNA	0.980496185	0.000566889
TOPORS-AS1	AKNA	0.938528075	0.005552051
AP001062.8	ZNF768	-0.913573684	0.010881481
AC087294.2	AKNA	0.960092885	0.002357089
AP001062.8	AKNA	0.939866704	0.005315299
RP11-455F5.3	AKNA	0.967274204	0.001588942
RP11-326C3.2	AKNA	0.994320996	4.83E-05
AP006621.8	AKNA	0.986035514	0.000291149
JHDM1D-AS1	AKNA	0.966840158	0.001631132
RP11-20I23.6	AKNA	0.97763892	0.000744436

AC005944.2	ZNF768	-0.86751298	0.025166456
CTB-191K22.5	ZNF768	-0.871656113	0.02365118
RP11-160E2.19	AKNA	0.995379753	3.20E-05
AC005786.7	AKNA	0.957382703	0.00268565
AC005944.2	AKNA	0.950430786	0.003624762
CTB-191K22.5	AKNA	0.917647816	0.009893572
AC011558.5	ZNF768	-0.842945042	0.035062411
AC024028.1	STAC3	0.916933908	0.010063386
RP11-20I23.8	AKNA	0.970028597	0.001333966
CDC37L1-AS1	AKNA	0.942503131	0.004863796
RP5-1142A6.10	AKNA	0.976712713	0.000807132
RP11-556I13.1	AKNA	0.966823345	0.001632777
RP11-473M20.11	STAC3	0.844392217	0.034436747
AC011558.5	AKNA	0.923369183	0.008583424
RP11-680G24.6	STAC3	0.872436109	0.023370925
LA16c-359F1.1	STAC3	0.898887233	0.01481881
CTD-2139B15.2	AKR1C3	0.94107155	0.005106527
RP11-473M20.11	CCNB1	-0.834252952	0.038931418
CTD-2139B15.2	CCNB1	0.909389454	0.011943438
RP11-91K8.5	CCNB1	0.813767499	0.048794308
AC011558.5	CCNB1	-0.913588355	0.010877842
RP11-118G23.2	RNF185	0.844234024	0.034504881
AC011558.5	AKR1C3	-0.921847392	0.008923074
RP11-66D17.5	AKT1S1	0.981043894	0.000535595
RP11-126K1.8	AKT1S1	0.990263535	0.000141737
RP3-438O4.4	AKT1S1	0.987268376	0.00024211
PSMD5-AS1	RNF185	-0.867127191	0.025309828
TOPORS-AS1	RNF185	-0.908807835	0.012094839
NUP50-AS1	AKT1S1	0.998737954	2.39E-06
PSMD5-AS1	AKT1S1	0.983113614	0.000425317
RP11-455F5.3	RNF185	-0.909534291	0.011905879
RP11-326C3.2	RNF185	-0.837417235	0.037500946
AP006621.8	RNF185	-0.856670248	0.029342885
JHDM1D-AS1	RNF185	-0.904735972	0.013180581
RP11-20I23.6	RNF185	-0.88884869	0.017845305
AC005786.7	RNF185	-0.915383579	0.010436984
AC005944.2	RNF185	-0.894718276	0.016042878
TOPORS-AS1	AKT1S1	0.974668987	0.000954363
RMRP	RNF185	-0.811870518	0.049759847
RP11-20I23.8	RNF185	-0.902572972	0.013775649
AC087294.2	AKT1S1	0.994712301	4.19E-05
AP001062.8	AKT1S1	0.998673898	2.64E-06
RP5-1142A6.10	RNF185	-0.874540268	0.02262284
RP11-556I13.1	RNF185	-0.904556753	0.013229404
RP11-34P13.14	C9orf167	0.826324762	0.042625342
RP11-93O14.2	C9orf167	0.840004426	0.036350046
RP11-680G24.6	C9orf167	0.823536639	0.043961502
Z69720.3	C9orf167	0.839749003	0.03646292
RMRP	SERPING1	-0.821501008	0.044949178
RP11-473M20.11	CAST	-0.835270986	0.038468458
LLNLR-284B4.1	CAST	-0.837995915	0.037242061
CTD-2541M15.3	CAST	0.867148151	0.025302029
RP11-91K8.5	CAST	0.857344057	0.029074502
RP11-160E2.19	CAST	-0.841757205	0.035579911
RP11-455F5.3	AKT1S1	0.993305065	6.71E-05
CTA-315H11.2	MTX2	0.835313748	0.038449068
MIR210HG	MTX2	0.870747413	0.023979685
CTD-2139B15.2	MTX2	0.875474907	0.022294274
RP11-91K8.5	MTX2	0.859273647	0.028312394
RP11-326C3.2	MTX2	-0.831898425	0.04001209
RP11-160E2.19	MTX2	-0.854709259	0.030130599
AC011558.5	MTX2	-0.870283538	0.024148213
RP11-326C3.2	AKT1S1	0.970378035	0.001303195

MIR210HG	TK1	0.853712408	0.030534808
CTD-2139B15.2	TK1	0.90667511	0.012657894
PSMD5-AS1	CKAP5	-0.826773649	0.04241202
TOPORS-AS1	CKAP5	-0.852388806	0.031075442
RP11-455F5.3	CKAP5	-0.813277353	0.049042945
RP11-326C3.2	CKAP5	-0.876656708	0.021882106
AP006621.8	CKAP5	-0.835093615	0.038548932
JHDM1D-AS1	CKAP5	-0.823791312	0.043838657
RP11-20I23.6	CKAP5	-0.858695919	0.028539567
AP006621.8	AKT1S1	0.979327369	0.000636619
AC005786.7	CKAP5	-0.846484176	0.0335417
RP11-20I23.8	CKAP5	-0.828544383	0.0415754
RP5-1142A6.10	CKAP5	-0.886742331	0.018514554
RP11-556I13.1	CKAP5	-0.824116532	0.043682014
JHDM1D-AS1	AKT1S1	0.98924119	0.000173005
RP3-337H4.8	FDX1L	0.890928673	0.017196045
MIR210HG	FDX1L	0.8968922	0.015398747
RP11-20I23.6	AKT1S1	0.98838998	0.000201406
RP11-91K8.5	FDX1L	0.87152432	0.023698691
AC024028.1	ETV3	0.852473854	0.031040569
RP11-160E2.19	AKT1S1	0.922066874	0.008873692
AC005786.7	AKT1S1	0.991696862	0.000103127
AC005944.2	AKT1S1	0.985570534	0.000310812
RP11-485G7.6	ETV3	0.907847491	0.012346844
RP11-118G23.2	ETV3	0.859970462	0.028039539
CTB-191K22.5	AKT1S1	0.996921296	1.42E-05
RP11-20I23.8	AKT1S1	0.990550996	0.000133504
CDC37L1-AS1	AKT1S1	0.985508389	0.000313489
RP5-1142A6.10	AKT1S1	0.981617913	0.000503746
CCDC144NL-AS1	CPT1A	0.822277914	0.044571022
RP11-156P1.3	CPT1A	0.824559733	0.043468968
CTA-315H11.2	CPT1A	0.834769886	0.038696013
RP11-66D17.5	CPT1A	-0.873896645	0.022850433
RP11-556I13.1	AKT1S1	0.989104939	0.000177407
RP3-438O4.4	CPT1A	-0.844868401	0.034232036
NUP50-AS1	CPT1A	-0.907693191	0.012387568
CTA-315H11.2	AKT2	-0.918948351	0.009587825
TOPORS-AS1	CPT1A	-0.846889236	0.033369678
AC087294.2	CPT1A	-0.887522068	0.018265433
AP001062.8	CPT1A	-0.903130407	0.013621079
RP11-455F5.3	CPT1A	-0.896192444	0.015604697
RP11-326C3.2	CPT1A	-0.888609405	0.017920737
RP11-66D17.5	AKT2	0.965330527	0.001782123
JHDM1D-AS1	CPT1A	-0.875558961	0.022264838
RP11-20I23.6	CPT1A	-0.887225819	0.018359892
RP11-160E2.19	CPT1A	-0.872908925	0.023201816
AC005786.7	CPT1A	-0.880952811	0.020414768
RP11-126K1.8	AKT2	0.983106572	0.000425671
CTB-191K22.5	CPT1A	-0.906993438	0.012573067
RP11-20I23.8	CPT1A	-0.882737129	0.019819655
CDC37L1-AS1	CPT1A	-0.838035096	0.037224562
RP5-1142A6.10	CPT1A	-0.889080113	0.017772496
RP11-556I13.1	CPT1A	-0.875006346	0.022458706
RP3-438O4.4	AKT2	0.995247339	3.38E-05
NUP50-AS1	AKT2	0.990403984	0.000137683
PSMD5-AS1	AKT2	0.972362519	0.00113519
TOPORS-AS1	AKT2	0.981477934	0.000511423
AC087294.2	AKT2	0.99735928	1.05E-05
RP11-473M20.11	PHLDA3	0.882496923	0.019899279
AP001062.8	AKT2	0.996256216	2.10E-05
RP11-680G24.6	PHLDA3	0.843601911	0.034777766
LA16c-359F1.1	PHLDA3	0.904256313	0.013311446
RP11-455F5.3	AKT2	0.995663414	2.82E-05

AC024028.1	BBX	0.83798484	0.037247007
RP11-326C3.2	AKT2	0.973504295	0.001043733
AP006621.8	AKT2	0.972950733	0.001087599
JHDM1D-AS1	AKT2	0.995304513	3.30E-05
RP11-485G7.6	BBX	0.907330698	0.012483496
RP11-118G23.2	BBX	0.871604739	0.023669695
RP11-20I23.6	AKT2	0.988968034	0.000181885
AC005786.7	AKT2	0.989378232	0.000168634
AC005944.2	AKT2	0.95959711	0.002415614
CTB-191K22.5	AKT2	0.983541559	0.000404091
MIR210HG	CHAC1	0.884524454	0.019231992
RP11-20I23.8	AKT2	0.994448266	4.61E-05
CCDC144NL-AS1	G6PC3	0.853319906	0.03069466
CTD-2531D15.5	G6PC3	0.885889435	0.018788902
RP11-770G2.2	G6PC3	0.845168324	0.034103394
CDC37L1-AS1	AKT2	0.992683181	8.01E-05
CTB-31O20.6	G6PC3	0.820543979	0.045417053
AC024028.1	ARHGAP6	0.915670696	0.010367296
RP5-1142A6.10	AKT2	0.977484267	0.00075473
RP11-556I13.1	AKT2	0.995260897	3.36E-05
AC024028.1	AKT3	0.995478186	3.06E-05
RP11-498J9.2	AKT3	0.975523417	0.000891323
RP11-473M20.11	ARHGAP6	0.84152935	0.035679588
RP11-34P13.14	AKT3	0.951627461	0.00345326
RP11-93O14.2	AKT3	0.936336842	0.005950483
RP11-473M20.11	AKT3	0.978879539	0.0006644
RP11-78A19.3	AKT3	0.944809538	0.004484926
MIR210HG	KLHL7	0.901082154	0.014193168
CTD-2139B15.2	KLHL7	0.906046701	0.01282616
RP11-91K8.5	KLHL7	0.841874079	0.035528835
RP11-66D17.5	TRIP10	-0.813432766	0.048964046
RP11-126K1.8	TRIP10	-0.820165517	0.045602699
RP3-438O4.4	TRIP10	-0.814233523	0.048558451
Z69720.3	AKT3	0.942271059	0.004902751
RP11-473M20.11	EREG	0.85722081	0.029123505
RP11-118G23.2	NUPL1	0.857535993	0.028998266
RP11-77G23.2	NUPL1	0.8528309	0.030894367
RP11-66D17.5	NUPL1	-0.859587053	0.028189517
NUP50-AS1	NUPL1	-0.816612102	0.047362911
AC005944.2	NUPL1	-0.847572605	0.033080408
CTB-191K22.5	NUPL1	-0.829774168	0.040998948
LL21NC02-21A1.1	NUPL1	-0.890133027	0.017443039
RP5-1033H22.2	MYB	0.854859052	0.03007008
RP11-21J18.1	MYB	0.892478257	0.016719862
RP11-298J23.8	MYB	0.836893337	0.037736048
RP11-165D6.1	MYB	0.884580353	0.01921375
RP11-77G23.2	MYB	0.85149599	0.031442649
CTD-2139B15.2	ASNS	0.83936785	0.036631661
CCDC144NL-AS1	LAP3	0.873119964	0.023126523
CTA-315H11.2	LAP3	0.885454052	0.018929695
CTD-2139B15.2	LAP3	0.883779223	0.019475991
RP11-326C3.2	LAP3	-0.852608696	0.030985316
AP006621.8	LAP3	-0.82052316	0.045427256
RP11-160E2.19	LAP3	-0.913836353	0.010816414
RP3-337H4.8	RNASEH2A	0.875698914	0.022215867
CTD-2139B15.2	RNASEH2A	0.916300648	0.010215191
RP3-337H4.8	LONP1	0.888696713	0.017893196
CTD-2139B15.2	LONP1	0.913261793	0.010958987
LLNLR-284B4.1	NUDT21	-0.863986019	0.026491589
RP4-784A16.3	NUDT21	0.879668908	0.020848186
CTD-2541M15.3	NUDT21	0.849326878	0.032343265
PSMD5-AS1	NUDT21	-0.83275722	0.039616318
AP006621.8	NUDT21	-0.821563184	0.044918859

RP11-160E2.19	NUDT21	-0.857806059	0.028891157
AC005944.2	NUDT21	-0.867141453	0.025304521
RP5-1142A6.10	NUDT21	-0.830121386	0.040836874
AC011558.5	NUDT21	-0.856742416	0.029314084
CTD-2139B15.2	POP4	0.871049881	0.0238701
CTD-2531D15.5	MGST1	0.903095678	0.013630684
RP11-156P1.3	MGST1	0.833565145	0.039245672
AC024028.1	MYC	-0.869105558	0.024578702
RP11-34P13.14	MYC	-0.826680436	0.042456276
RP11-473M20.11	MYC	-0.888462997	0.017966966
UBE2Q1-AS1	MYC	0.853217324	0.030736503
CTD-2531D15.5	MYC	0.836879283	0.037742365
RP11-770G2.2	MYC	0.867689112	0.025101128
AC005943.6	MYC	0.878677505	0.02118584
RP11-498J9.2	LAMB2	0.892019567	0.016860147
RP11-34P13.14	LAMB2	0.827003081	0.042303181
RP11-78A19.3	LAMB2	0.905527046	0.012966117
LA16c-359F1.1	LAMB2	0.859895305	0.028068908
Z69720.3	LAMB2	0.867647785	0.025116449
CCDC144NL-AS1	LLPH	0.913750098	0.01083776
RP11-156P1.3	LLPH	0.864251993	0.026390533
RP11-66D17.5	LLPH	-0.91332851	0.010942385
TOPORS-AS1	LLPH	-0.890149411	0.017437936
RP11-160E2.19	LLPH	-0.906400884	0.01273119
RMRP	LLPH	-0.834035073	0.039030837
LL21NC02-21A1.1	LLPH	-0.820225484	0.04557326
MIR210HG	AARS	0.890426536	0.017351728
RP11-91K8.5	AARS	0.874354975	0.02268825
RP11-473M20.11	FILIP1L	0.90183197	0.013982422
RP11-680G24.6	FILIP1L	0.871093454	0.023854333
LA16c-359F1.1	FILIP1L	0.911959328	0.011285531
RP3-337H4.8	SYNGR1	0.887412371	0.018300382
RP11-91K8.5	SYNGR1	0.839323868	0.036651156
LLNLR-284B4.1	PCYT1A	-0.860094734	0.027991009
RP11-77G23.2	PCYT1A	0.900284287	0.014419087
MIR210HG	CTSL1	0.894479823	0.016114304
CTD-2139B15.2	CTSL1	0.889634898	0.017598535
RP11-680G24.6	TBL2	0.814666768	0.04833966
RP11-66D17.5	TBL2	-0.839222973	0.036695896
RP3-438O4.4	TBL2	-0.816256983	0.047540525
RMRP	TBL2	-0.879395467	0.020941056
RP11-473M20.11	SLC9A7	0.861584813	0.027412214
RP11-680G24.6	SLC9A7	0.898116409	0.01504161
LA16c-359F1.1	SLC9A7	0.908594996	0.012150473
AC024028.1	GZF1	0.909771821	0.011844407
RP11-473M20.11	GZF1	0.837766097	0.037344774
RP11-680G24.6	GZF1	0.904691631	0.013192652
RP11-498J9.2	PNCK	0.909035672	0.012035421
RP11-34P13.14	PNCK	0.893959998	0.016270541
RP11-118G23.2	PNCK	0.817953498	0.046694798
Z69720.3	PNCK	0.895658812	0.01576264
BX322559.3	PNCK	-0.821772037	0.044817086
AC024028.1	EPAS1	0.870385559	0.0241111
RP11-485G7.6	EPAS1	0.888728328	0.017883229
LA16c-359F1.1	EPAS1	0.910472487	0.011663974
AC024028.1	SIRT1	0.845797489	0.033834276
RP11-118G23.2	SIRT1	0.848570655	0.032660068
LA16c-359F1.1	SPAG9	0.888877229	0.017836318
RP11-66D17.5	SPAG9	-0.818373384	0.046486571
LL21NC02-21A1.1	SPAG9	-0.881542945	0.020217012
RP3-337H4.8	ALDH3B1	0.882021014	0.020057485
MIR210HG	ALDH3B1	0.893100384	0.016530493
MIR210HG	CD58	0.860728453	0.027744151

CTD-2139B15.2	CD58	0.862947447	0.026887947
AC011558.5	CD58	-0.891917578	0.016891416
CTA-315H11.2	PSMG2	0.844311247	0.034471613
MIR210HG	PSMG2	0.822734272	0.044349585
CTD-2139B15.2	PSMG2	0.904645666	0.013205171
RP11-91K8.5	PSMG2	0.890301834	0.017390495
RP11-326C3.2	PSMG2	-0.831025639	0.040416196
RP11-160E2.19	PSMG2	-0.882306961	0.019962356
LLNLR-284B4.1	WHSC1	-0.891660458	0.016970369
RP11-77G23.2	WHSC1	0.886420801	0.018617752
CTD-2541M15.3	WHSC1	0.847795516	0.032986307
PSMD5-AS1	WHSC1	-0.826621331	0.042484349
RP11-326C3.2	WHSC1	-0.826559894	0.042513539
AP006621.8	WHSC1	-0.824131774	0.043674679
RP11-160E2.19	WHSC1	-0.900067055	0.014480895
AC005944.2	WHSC1	-0.835166644	0.038515789
RP5-1142A6.10	WHSC1	-0.844145432	0.034543066
CCDC144NL-AS1	FAM195A	0.877719589	0.02151455
CTB-31O20.6	FAM195A	0.885780827	0.018823977
CTD-2139B15.2	FAM195A	0.834282167	0.038918096
RP5-1033H22.2	ANKRD27	0.818034386	0.046654651
RP4-784A16.3	ANKRD27	0.832462826	0.039751781
RP11-165D6.1	ANKRD27	0.819534538	0.045912995
RP11-118G23.2	GNS	0.892525777	0.016705361
RP11-66D17.5	GNS	-0.819965005	0.045701198
LL21NC02-21A1.1	GNS	-0.825616192	0.042963088
RP3-337H4.8	MCM5	0.827885574	0.041885759
RP3-337H4.8	CLTC	0.824465161	0.043514388
RP11-91K8.5	CLTC	0.884940447	0.019096432
RP11-160E2.19	CLTC	-0.81628859	0.047524704
AC011558.5	CLTC	-0.908510554	0.01217258
RP11-473M20.11	DUSP5	0.887608655	0.018237868
RP11-680G24.6	DUSP5	0.882118988	0.020024866
LA16c-359F1.1	DUSP5	0.909276835	0.011972682
RP11-118G23.2	BCAT1	0.813095846	0.049135168
RP4-784A16.3	BCAT1	0.839129262	0.036737473
RP11-77G23.2	BCAT1	0.884255162	0.019319992
RP11-66D17.5	BCAT1	-0.903981082	0.013386819
RP11-126K1.8	BCAT1	-0.850466026	0.031868794
RP3-438O4.4	BCAT1	-0.822893357	0.044272513
NUP50-AS1	BCAT1	-0.884795813	0.019143512
PSMD5-AS1	BCAT1	-0.859328572	0.028290841
TOPORS-AS1	BCAT1	-0.838065269	0.03721109
AC087294.2	BCAT1	-0.837691758	0.037378027
AP001062.8	BCAT1	-0.856909302	0.029247534
RP11-455F5.3	BCAT1	-0.832822412	0.03958635
AP006621.8	BCAT1	-0.839977535	0.036361921
JHDM1D-AS1	BCAT1	-0.820129009	0.045620626
RP11-20I23.6	BCAT1	-0.845359495	0.034021516
AC005786.7	BCAT1	-0.869498839	0.024434576
CTB-191K22.5	BCAT1	-0.895560815	0.015791727
RP11-20I23.8	BCAT1	-0.828641728	0.041529633
CDC37L1-AS1	BCAT1	-0.821184103	0.045103857
LL21NC02-21A1.1	BCAT1	-0.899789543	0.01456004
RP5-1142A6.10	BCAT1	-0.867171404	0.025293378
RP11-556I13.1	BCAT1	-0.819803669	0.045780525
RP4-784A16.3	EXOC4	0.816130418	0.047603901
RP3-339A18.6	EXOC4	0.837852035	0.03730635
MIR210HG	RAB6B	0.916839141	0.010086034
CTD-2139B15.2	RAB6B	0.865352898	0.025974198
RP3-339A18.6	MLC1	0.835472833	0.038376975
RP11-156P1.3	MLC1	0.864388108	0.026338887
RP11-118G23.2	MEF2C	0.850149213	0.032000419

RP11-680G24.6	MEF2C	0.846270334	0.033632683
RP3-339A18.6	MEF2C	0.916041168	0.010277712
RP11-66D17.5	TMEM38B	-0.861047664	0.027620199
RP3-438O4.4	TMEM38B	-0.821312828	0.045040998
NUP50-AS1	TMEM38B	-0.820089237	0.045640159
BX322559.3	TMEM38B	-0.911323597	0.011446603
TOPORS-AS1	TMEM38B	-0.82374588	0.04386056
AC005786.7	TMEM38B	-0.829273452	0.0412332
CTB-191K22.5	TMEM38B	-0.828404908	0.041641015
CDC37L1-AS1	TMEM38B	-0.824639817	0.043430523
LL21NC02-21A1.1	TMEM38B	-0.860586562	0.027799333
RP11-118G23.2	DHX36	0.868585885	0.024769765
RP3-438O4.4	DHX36	-0.909306556	0.011964961
PSMD5-AS1	DHX36	-0.882592339	0.019867632
TOPORS-AS1	DHX36	-0.915531941	0.010400946
AC087294.2	DHX36	-0.909066987	0.012027265
RP11-455F5.3	DHX36	-0.901033147	0.014206995
RP11-326C3.2	DHX36	-0.845451804	0.033982014
AP006621.8	DHX36	-0.869264885	0.024520265
JHDM1D-AS1	DHX36	-0.889820143	0.017540632
RP11-20I23.6	DHX36	-0.891781107	0.0169333
RP11-20I23.8	DHX36	-0.891923283	0.016889666
CDC37L1-AS1	DHX36	-0.893641192	0.016366718
RP5-1142A6.10	DHX36	-0.895796371	0.015721852
RP11-556I13.1	DHX36	-0.889504624	0.01763931
RP11-473M20.11	MS4A2	0.893225545	0.01649252
RP11-680G24.6	MS4A2	0.886479026	0.018599044
LA16c-359F1.1	MS4A2	0.909973072	0.011792444
RP3-337H4.8	ZNF672	0.812150614	0.04961673
MIR210HG	ZNF672	0.916479279	0.010172258
CTD-2139B15.2	ZNF672	0.865938007	0.025754205
CTA-315H11.2	SERPINH1	0.837009511	0.037683855
RP11-91K8.5	SERPINH1	0.857308398	0.029088676
RP11-160E2.19	SERPINH1	-0.866782466	0.025438267
RP11-680G24.6	ATP13A3	0.815239994	0.048050882
RP4-784A16.3	ATP13A3	0.834023209	0.039036254
RP3-339A18.6	ATP13A3	0.877988587	0.021421999
CTC-1337H24.3	ATP13A3	-0.903486802	0.013522696
RP11-66D17.5	ATP13A3	-0.832100158	0.039918957
LL21NC02-21A1.1	ATP13A3	-0.897235094	0.015298308
RMRP	CRYL1	-0.820609853	0.045384776
RP3-337H4.8	MRPL2	0.863905959	0.026522043
CTD-2541M15.3	PTK2	0.831883767	0.040018861
TOPORS-AS1	PTK2	-0.826851793	0.042374935
RP11-326C3.2	PTK2	-0.827998067	0.041832688
RP11-20I23.6	PTK2	-0.835723331	0.038263583
RP11-160E2.19	PTK2	-0.865371011	0.025967374
AC005786.7	PTK2	-0.839656534	0.036503823
AC005944.2	PTK2	-0.830985275	0.040434931
CDC37L1-AS1	PTK2	-0.81304026	0.049163427
RP5-1142A6.10	PTK2	-0.860622022	0.027785537
AC011558.5	PTK2	-0.858846625	0.028480224
AC024028.1	TFR2	-0.887368152	0.01831448
RP11-34P13.14	TFR2	-0.870470394	0.024080259
RP11-473M20.11	TFR2	-0.881074344	0.020373966
RP3-337H4.8	TFR2	0.903007612	0.013655056
CTD-2139B15.2	TFR2	0.879443853	0.020924608
RP11-91K8.5	TFR2	0.827603632	0.042018908
CTB-31O20.6	FAM127B	0.832494574	0.039737162
CTA-315H11.2	FAM127B	0.840825727	0.035988218
MIR210HG	FAM127B	0.816070862	0.047633737
RP11-91K8.5	FAM127B	0.820498711	0.045439239
RP11-473M20.11	SPINK4	0.849859884	0.032120848

RP11-680G24.6	SPINK4	0.88286646	0.019776848
LA16c-359F1.1	SPINK4	0.902281009	0.013856942
AC024028.1	GNAI1	0.850545615	0.031835767
RP11-485G7.6	GNAI1	0.870698297	0.023997502
RP11-118G23.2	GNAI1	0.864558876	0.026274161
RP11-498J9.2	C8orf83	0.853578716	0.030589212
RP11-34P13.14	C8orf83	0.891607943	0.016986517
RP11-485G7.6	C8orf83	0.849490022	0.03227511
Z69720.3	C8orf83	0.856035657	0.029596715
LL21NC02-21A1.1	C8orf83	-0.82134115	0.045027172
RP11-473M20.11	GNLY	0.889338058	0.017691511
RP11-680G24.6	GNLY	0.842303068	0.035341654
LA16c-359F1.1	GNLY	0.902913851	0.013681027
RP3-337H4.8	RPA3	0.909636746	0.011879345
MIR210HG	RPA3	0.847163367	0.033253497
RP11-91K8.5	RPA3	0.854810909	0.030089525
RP3-337H4.8	MICALL2	0.832154852	0.039893724
RP11-91K8.5	MICALL2	0.852240801	0.031136174
AC011558.5	MICALL2	-0.865632484	0.025868966
RP11-91K8.5	ALAD	0.920617058	0.009202355
RP11-680G24.6	IPO7	0.822285041	0.044567559
RP4-784A16.3	IPO7	0.836859733	0.037751152
RP3-339A18.6	IPO7	0.878663791	0.021190529
CTC-1337H24.3	IPO7	-0.895850977	0.015705675
LL21NC02-21A1.1	IPO7	-0.865308382	0.025990971
RP3-337H4.8	BNIP3	0.896015638	0.015656943
MIR210HG	ALAS1	0.930535506	0.00707038
CTD-2139B15.2	BNIP3	0.904511813	0.01324166
RP11-91K8.5	BNIP3	0.852410903	0.031066379
RP11-498J9.2	PGRMC1	0.871074303	0.023861262
RP11-34P13.14	PGRMC1	0.873710391	0.022916497
RP11-93O14.2	PGRMC1	0.916796095	0.010096329
RP11-485G7.6	PGRMC1	0.892240847	0.016792401
RP11-118G23.2	PGRMC1	0.829491168	0.041131269
RP11-78A19.3	PGRMC1	0.889375421	0.017679796
RP11-91K8.5	ALAS1	0.966759162	0.001639065
LA16c-359F1.1	PGRMC1	0.909067276	0.01202719
Z69720.3	PGRMC1	0.902089633	0.013910354
LL21NC02-21A1.1	PGRMC1	-0.841778469	0.035570616
RP11-485G7.6	WDR41	0.827203916	0.042208015
RP11-118G23.2	WDR41	0.819568677	0.045896181
RP11-680G24.6	WDR41	0.870308813	0.024139016
LA16c-359F1.1	WDR41	0.902702794	0.013739576
RP11-66D17.5	WDR41	-0.88297838	0.019739839
RP3-438O4.4	WDR41	-0.852720616	0.030939491
NUP50-AS1	WDR41	-0.829508046	0.041123371
BX322559.3	WDR41	-0.85043636	0.031881108
TOPORS-AS1	WDR41	-0.825551635	0.042993922
AP001062.8	WDR41	-0.819803768	0.045780476
CTB-191K22.5	WDR41	-0.832103985	0.039917191
CDC37L1-AS1	WDR41	-0.842619557	0.035203859
LL21NC02-21A1.1	WDR41	-0.878154573	0.021364985
CTA-315H11.2	ALAS2	-0.935600283	0.006087442
RP11-66D17.5	ALAS2	0.965654494	0.001749163
RP11-126K1.8	ALAS2	0.986978113	0.00025325
RP3-337H4.8	BLVRA	0.840172351	0.036275927
RP3-438O4.4	ALAS2	0.992950332	7.44E-05
RP11-91K8.5	BLVRA	0.819749842	0.045807005
AC011558.5	BLVRA	-0.854955412	0.030031179
NUP50-AS1	ALAS2	0.992084123	9.37E-05
RP11-680G24.6	SLC44A1	0.846447448	0.033557319
RP3-339A18.6	SLC44A1	0.907031337	0.012562986
CTC-1337H24.3	SLC44A1	-0.864246986	0.026392433

RP11-66D17.5	SLC44A1	-0.81610518	0.047616544
LL21NC02-21A1.1	SLC44A1	-0.876026593	0.02210141
RP11-91K8.5	RRM1	0.855156616	0.02995003
RP11-326C3.2	RRM1	-0.822364507	0.044528965
RP11-160E2.19	RRM1	-0.901207859	0.014157731
RP5-1142A6.10	RRM1	-0.811934305	0.049727238
PSMD5-AS1	ALAS2	0.983922054	0.000385672
LLNLR-284B4.1	RBBP4	-0.829101463	0.041313807
CTA-315H11.2	RBBP4	0.813303825	0.049029502
TOPORS-AS1	ALAS2	0.975028523	0.000927576
PSMD5-AS1	RBBP4	-0.816283087	0.047527458
RP11-326C3.2	RBBP4	-0.830581047	0.040622775
AP006621.8	RBBP4	-0.81849072	0.04642846
RP11-160E2.19	RBBP4	-0.916949816	0.010059587
RP5-1142A6.10	RBBP4	-0.821944875	0.044732944
AC087294.2	ALAS2	0.999299046	7.37E-07
AC024028.1	C14orf43	0.819533729	0.045913393
RP11-498J9.2	C14orf43	0.91266212	0.011108755
AP001062.8	ALAS2	0.99795444	6.27E-06
RP11-455F5.3	ALAS2	0.998950062	1.65E-06
RP11-485G7.6	C14orf43	0.879950301	0.020752821
RP11-118G23.2	C14orf43	0.868645531	0.0247478
RP11-326C3.2	ALAS2	0.980367033	0.000574396
AP006621.8	ALAS2	0.9836298	0.000399782
JHDM1D-AS1	ALAS2	0.997413156	1.00E-05
RP11-20I23.6	ALAS2	0.992605206	8.18E-05
RP4-784A16.3	PPIP5K2	0.887984966	0.018118305
RP11-160E2.19	ALAS2	0.929468821	0.007286537
AC005944.2	PPIP5K2	-0.851484022	0.031447585
RP5-1142A6.10	PPIP5K2	-0.824749299	0.043377992
CCDC144NL-AS1	APOE	0.84167036	0.035617887
CTD-2531D15.5	APOE	0.896445116	0.01553018
AC005786.7	ALAS2	0.990249957	0.000142132
CTB-31O20.6	APOE	0.834235326	0.038939456
AC005943.6	APOE	0.839496168	0.036574812
CTD-2139B15.2	APOE	0.900423639	0.014379505
CCDC144NL-AS1	UTP11L	0.874913671	0.022491297
CTA-315H11.2	UTP11L	0.880312943	0.020630229
RP11-66D17.5	UTP11L	-0.90168234	0.014024356
AC005944.2	ALAS2	0.973056503	0.001079148
CTB-191K22.5	ALAS2	0.988193972	0.000208251
RP11-20I23.8	ALAS2	0.99748796	9.46E-06
CDC37L1-AS1	ALAS2	0.992872847	7.60E-05
RP5-1142A6.10	ALAS2	0.980921774	0.000542496
RP11-556I13.1	ALAS2	0.997338091	1.06E-05
RP11-498J9.2	ALCAM	0.932069965	0.006765003
RP11-93O14.2	ALCAM	0.925473485	0.008124334
RP11-485G7.6	ALCAM	0.936879348	0.005850582
Z69720.3	ALCAM	0.931237493	0.006929859
CTD-2139B15.2	ALDH3B1	0.935813227	0.00604769
RP11-91K8.5	ALDH3B1	0.988637647	0.000192921
RP11-160E2.19	UTP11L	-0.909112992	0.012015289
AC024028.1	ALDH8A1	0.944651013	0.004510484
RP11-498J9.2	ALDH8A1	0.996521363	1.81E-05
RP11-34P13.14	ALDH8A1	0.975039608	0.000926756
RP11-93O14.2	ALDH8A1	0.992843871	7.66E-05
CDC37L1-AS1	UTP11L	-0.912648606	0.011112142
RP11-485G7.6	ALDH8A1	0.976521066	0.000820419
RP11-78A19.3	ALDH8A1	0.993786704	5.78E-05
AC024028.1	SLC39A11	0.872391907	0.023386764
LA16c-359F1.1	ALDH8A1	0.929622086	0.007255284
Z69720.3	ALDH8A1	0.981487571	0.000510893
CTD-2139B15.2	ALG14	0.958550215	0.00254152

RP11-485G7.6	SLC39A11	0.892316236	0.01676935
CTA-315H11.2	ALOX15	-0.946299802	0.004248139
RP11-680G24.6	SLC39A11	0.915961989	0.010296826
LA16c-359F1.1	SLC39A11	0.891792063	0.016929935
RP11-66D17.5	ALOX15	0.949617163	0.003743699
RP11-126K1.8	ALOX15	0.972400923	0.001132052
RP3-438O4.4	ALOX15	0.99347495	6.37E-05
NUP50-AS1	ALOX15	0.983204648	0.000420757
PSMD5-AS1	ALOX15	0.9824436	0.000459635
TOPORS-AS1	ALOX15	0.979989703	0.000596612
RP11-473M20.11	AHRR	0.89423443	0.016187968
AC087294.2	ALOX15	0.998821385	2.08E-06
RP11-680G24.6	AHRR	0.877197275	0.0216948
LA16c-359F1.1	AHRR	0.905713429	0.012915834
AP001062.8	ALOX15	0.991217262	0.000115366
RP3-337H4.8	ILKAP	0.837513849	0.037457665
RP11-455F5.3	ALOX15	0.998794354	2.18E-06
RP5-1033H22.2	TPSD1	0.842545658	0.035236011
RP11-326C3.2	ALOX15	0.988869474	0.000185143
RP11-298J23.8	TPSD1	0.820553404	0.045412434
RP11-165D6.1	TPSD1	0.815309282	0.048016031
AC024028.1	SSFA2	0.898181622	0.015022698
AP006621.8	ALOX15	0.984534607	0.000356918
JHDM1D-AS1	ALOX15	0.99999455	4.46E-11
RP11-20I23.6	ALOX15	0.996869946	1.47E-05
RP11-160E2.19	ALOX15	0.9446306	0.004513781
RP11-473M20.11	SSFA2	0.820943093	0.045221658
AC005786.7	ALOX15	0.991743298	0.000101978
AC005944.2	ALOX15	0.965221706	0.001793262
CTB-191K22.5	ALOX15	0.976400162	0.000828857
RP11-20I23.8	ALOX15	0.999789569	6.64E-08
RP11-118G23.2	ACSL4	0.913239137	0.010964627
RP4-784A16.3	ACSL4	0.86600703	0.025728311
CTC-1337H24.3	ACSL4	-0.872716775	0.02327047
RP11-77G23.2	ACSL4	0.850620748	0.031804605
LL21NC02-21A1.1	ACSL4	-0.863455405	0.026693742
RP11-498J9.2	PIK3CB	0.845188757	0.034094638
RP11-34P13.14	PIK3CB	0.895090839	0.015931586
CDC37L1-AS1	ALOX15	0.995119004	3.57E-05
RP11-485G7.6	PIK3CB	0.830033473	0.040877881
RP5-1142A6.10	ALOX15	0.986619734	0.00026735
RP11-78A19.3	PIK3CB	0.897783206	0.015138415
RP11-556I13.1	ALOX15	0.99999631	2.04E-11
RP11-770G2.2	ALOX15B	0.925932371	0.008025852
Z69720.3	PIK3CB	0.873943317	0.022833893
LL21NC02-21A1.1	PIK3CB	-0.86414043	0.026432898
RP11-118G23.2	HSPG2	0.826693628	0.042450011
AC005943.6	ALOX15B	0.932844895	0.006613284
LL21NC02-21A1.1	HSPG2	-0.812674443	0.049349589
AC024028.1	ALOX5AP	0.987681601	0.00022668
RP11-498J9.2	ALOX5AP	0.920397421	0.009252652
RP11-473M20.11	ALOX5AP	0.998790742	2.19E-06
RP11-160E2.19	ALPK1	0.962815526	0.00204832
AC011558.5	ALPK1	0.983125665	0.000424712
RP11-473M20.11	CATSPER1	0.885212841	0.019007915
RP11-66D17.5	ALPL	0.964748496	0.0018421
RP11-680G24.6	CATSPER1	0.885318223	0.018973723
LA16c-359F1.1	CATSPER1	0.914618516	0.010623781
RP11-126K1.8	ALPL	0.969490763	0.001382021
RP3-337H4.8	NAPRT1	0.841700275	0.035604804
CTD-2139B15.2	NAPRT1	0.825103137	0.043208417
CCDC144NL-AS1	ATIC	0.831597505	0.040151204
NUP50-AS1	ALPL	0.951036778	0.003537404

AP001062.8	ALPL	0.94361991	0.004678464
AC005943.6	ATIC	0.813432791	0.048964032
CTD-2139B15.2	ATIC	0.829579378	0.041090004
CTA-315H11.2	CXXC5	0.881261131	0.020311334
RP11-77G23.2	CXXC5	0.831253008	0.04031074
CTD-2541M15.3	CXXC5	0.904446207	0.013259563
NUP50-AS1	CXXC5	-0.8197889	0.045787789
PSMD5-AS1	CXXC5	-0.909791541	0.01183931
TOPORS-AS1	CXXC5	-0.815576318	0.047881824
AC087294.2	CXXC5	-0.839314586	0.036655271
AP001062.8	CXXC5	-0.819320805	0.046018324
RP11-455F5.3	CXXC5	-0.850905671	0.031686561
RP11-326C3.2	CXXC5	-0.90414601	0.013341629
AP006621.8	CXXC5	-0.908804099	0.012095814
JHDM1D-AS1	CXXC5	-0.843543192	0.034803167
RP11-20I23.6	CXXC5	-0.876719166	0.021860425
AC005944.2	ALPL	0.918164549	0.009771534
AC005786.7	CXXC5	-0.854120121	0.030369178
AC005944.2	CXXC5	-0.905270207	0.01303556
CTB-191K22.5	CXXC5	-0.815780606	0.047779271
RP11-20I23.8	CXXC5	-0.853320745	0.030694318
RP5-1142A6.10	CXXC5	-0.894724793	0.016040928
RP11-556I13.1	CXXC5	-0.843376513	0.034875316
CTB-191K22.5	ALPL	0.95807404	0.002599831
AC024028.1	TNFSF9	0.874821687	0.022523667
LL21NC02-21A1.1	ALPL	0.939972797	0.005296751
CTA-315H11.2	ALS2CL	-0.955646234	0.002907257
RP11-66D17.5	ALS2CL	0.938219214	0.005607394
RP11-126K1.8	ALS2CL	0.966595257	0.001655178
RP3-438O4.4	ALS2CL	0.987250992	0.00024277
RP11-680G24.6	TNFSF9	0.907968253	0.012315016
LA16c-359F1.1	TNFSF9	0.908673996	0.012129809
NUP50-AS1	ALS2CL	0.977736394	0.000737985
LLNLR-284B4.1	RRM2	-0.825798375	0.04287613
RP11-91K8.5	RRM2	0.820974456	0.045206321
PSMD5-AS1	ALS2CL	0.987183411	0.000245345
TOPORS-AS1	ALS2CL	0.976758275	0.000803989
AC087294.2	ALS2CL	0.996449202	1.89E-05
LA16c-359F1.1	TBC1D5	0.904914639	0.013131995
RP11-66D17.5	TBC1D5	-0.813309714	0.049026512
LL21NC02-21A1.1	TBC1D5	-0.872097144	0.02349252
AC024028.1	MAPK6	0.880663488	0.020512057
AP001062.8	ALS2CL	0.986431486	0.000274908
RP11-455F5.3	ALS2CL	0.997850067	6.93E-06
RP11-326C3.2	ALS2CL	0.994949639	3.82E-05
AP006621.8	ALS2CL	0.98995275	0.000150914
RP11-118G23.2	MAPK6	0.815846687	0.04774612
JHDM1D-AS1	ALS2CL	0.998688555	2.58E-06
RP11-20I23.6	ALS2CL	0.998165903	5.04E-06
RP11-160E2.19	ALS2CL	0.959126923	0.002471771
AC005786.7	ALS2CL	0.990026701	0.000148704
AC024028.1	YWHAZP2	0.906760802	0.012635032
AC005944.2	ALS2CL	0.967299079	0.001586541
CTB-191K22.5	ALS2CL	0.970086784	0.001328818
RP11-20I23.8	ALS2CL	0.999136848	1.12E-06
CDC37L1-AS1	ALS2CL	0.98994007	0.000151294
RP11-473M20.11	YWHAZP2	0.829175785	0.041278965
RP5-1142A6.10	ALS2CL	0.989570983	0.000162579
RP11-556I13.1	ALS2CL	0.998685218	2.59E-06
CTA-315H11.2	ALS2CR12	-0.943491655	0.004699568
RP11-66D17.5	ALS2CR12	0.946326056	0.004244024
RP11-770G2.2	TMEM176B	0.818906478	0.046222827
CTB-31O20.6	TMEM176B	0.895787611	0.015724448

CTB-31O20.6	ENG	0.828210918	0.041732357
CTD-2139B15.2	ENG	0.880297964	0.020635286
RP11-473M20.11	LMO2	-0.873587979	0.022959966
CTD-2139B15.2	LMO2	0.874182695	0.022749148
RP11-126K1.8	ALS2CR12	0.975901887	0.000864081
AC024028.1	MDM2	0.879505924	0.020903517
RP3-438O4.4	ALS2CR12	0.991476979	0.000108653
NUP50-AS1	ALS2CR12	0.981570971	0.000506314
PSMD5-AS1	ALS2CR12	0.97915876	0.00064701
TOPORS-AS1	ALS2CR12	0.976644446	0.000811853
RP11-118G23.2	MDM2	0.830287578	0.040759405
AC087294.2	ALS2CR12	0.99739294	1.02E-05
AP001062.8	ALS2CR12	0.99110999	0.000118197
RP11-455F5.3	ALS2CR12	0.997826327	7.08E-06
RP11-326C3.2	ALS2CR12	0.985354155	0.00032018
RP3-337H4.8	NBAS	0.819842912	0.045761223
MIR210HG	NBAS	0.87749148	0.021593182
CTD-2139B15.2	NBAS	0.859980938	0.028035446
LLNLR-284B4.1	UBA2	-0.815357897	0.047991585
RP11-77G23.2	UBA2	0.900627039	0.014321825
AP006621.8	ALS2CR12	0.981970219	0.000484679
PSMD5-AS1	UBA2	-0.859355243	0.028280378
RP11-326C3.2	UBA2	-0.842986548	0.035044392
AP006621.8	UBA2	-0.851749562	0.03133815
RP11-20I23.6	UBA2	-0.831301336	0.040288341
RP11-160E2.19	UBA2	-0.906820084	0.012619228
AC005786.7	UBA2	-0.822300381	0.044560108
AC005944.2	UBA2	-0.884980124	0.019083526
RP5-1142A6.10	UBA2	-0.858016891	0.028807672
AC011558.5	UBA2	-0.905733755	0.012910357
RP11-498J9.2	ZNF385A	0.870922923	0.023916068
RP11-93O14.2	ZNF385A	0.865936484	0.025754776
RP11-485G7.6	ZNF385A	0.899979557	0.014505827
RP11-78A19.3	ZNF385A	0.845698256	0.033876655
Z69720.3	ZNF385A	0.845998949	0.033748316
RP11-498J9.2	RPL39L	0.863369979	0.026726356
RP11-34P13.14	RPL39L	0.86141369	0.027478392
RP11-93O14.2	RPL39L	0.889729691	0.017568893
RP11-485G7.6	RPL39L	0.848894645	0.032524161
RP11-78A19.3	RPL39L	0.854213069	0.030331479
RP11-680G24.6	RPL39L	0.817721901	0.046809835
Z69720.3	RPL39L	0.883225238	0.019658327
CCDC144NL-AS1	AFMID	0.847324014	0.0331855
CTA-315H11.2	AFMID	0.908560564	0.012159485
JHDM1D-AS1	ALS2CR12	0.998288362	4.39E-06
RP11-91K8.5	AFMID	0.860133531	0.027975866
RP11-326C3.2	AFMID	-0.861496168	0.027446486
AP006621.8	AFMID	-0.823985885	0.043744909
RP11-20I23.6	AFMID	-0.812222933	0.049579809
RP11-160E2.19	AFMID	-0.903551376	0.013504907
AC011558.5	AFMID	-0.914438941	0.010667859
RP11-118G23.2	EIF4BP3	0.877728778	0.021511385
RP11-680G24.6	EIF4BP3	0.872011868	0.023523158
RP11-66D17.5	EIF4BP3	-0.887293273	0.018338364
RP11-126K1.8	EIF4BP3	-0.841119469	0.035859222
NUP50-AS1	EIF4BP3	-0.837751821	0.037351158
AP001062.8	EIF4BP3	-0.823112889	0.04416626
CTB-191K22.5	EIF4BP3	-0.838723733	0.036917651
LL21NC02-21A1.1	EIF4BP3	-0.890230018	0.017412839
RP11-20I23.6	ALS2CR12	0.992706025	7.96E-05
RP11-160E2.19	ALS2CR12	0.935290734	0.006145455
AC005786.7	ALS2CR12	0.986780825	0.000260965
RP3-337H4.8	CENPW	0.901994153	0.013937039

MIR210HG	CENPW	0.900492709	0.014359906
CTD-2139B15.2	CENPW	0.830903857	0.040472733
RP11-66D17.5	FUCA2	-0.81987446	0.04574571
RP11-126K1.8	FUCA2	-0.873790253	0.022888159
RP3-438O4.4	FUCA2	-0.814761338	0.048291962
NUP50-AS1	FUCA2	-0.865893925	0.025770748
PSMD5-AS1	FUCA2	-0.885644743	0.018867968
TOPORS-AS1	FUCA2	-0.843609085	0.034774664
AC087294.2	FUCA2	-0.853376406	0.030671625
AP001062.8	FUCA2	-0.862482417	0.027066325
RP11-455F5.3	FUCA2	-0.861271095	0.027533596
RP11-326C3.2	FUCA2	-0.862868544	0.026918173
AP006621.8	FUCA2	-0.882937694	0.019753289
JHDM1D-AS1	FUCA2	-0.843911641	0.034643928
RP11-20I23.6	FUCA2	-0.858983975	0.028426191
RP11-160E2.19	FUCA2	-0.847134533	0.033265708
AC005786.7	FUCA2	-0.854439246	0.030239834
AC005944.2	FUCA2	-0.877087504	0.021732774
CTB-191K22.5	FUCA2	-0.851454465	0.031459778
RP11-20I23.8	FUCA2	-0.849806886	0.032142931
RP5-1142A6.10	FUCA2	-0.868062163	0.024963029
RP11-556I13.1	FUCA2	-0.843462914	0.034837908
LLNLR-284B4.1	MCM4	-0.91566943	0.010367603
RP11-77G23.2	MCM4	0.897020595	0.015361101
AC005944.2	ALS2CR12	0.957637478	0.002653863
AC011558.5	MCM4	-0.875343393	0.022340368
CTB-191K22.5	ALS2CR12	0.973637099	0.001033343
RP11-20I23.8	ALS2CR12	0.997608709	8.57E-06
CDC37L1-AS1	ALS2CR12	0.991477454	0.000108641
RP5-1142A6.10	ALS2CR12	0.980195452	0.000584446
RP11-556I13.1	ALS2CR12	0.998267604	4.50E-06
RP11-160E2.19	ALS2CR4	-0.923678986	0.008515065
AC011558.5	ALS2CR4	-0.938640057	0.005532052
CTA-315H11.2	AMICA1	-0.961622807	0.002180952
RP11-126K1.8	AMICA1	0.951231592	0.003509542
RP3-438O4.4	AMICA1	0.970516014	0.001291143
NUP50-AS1	AMICA1	0.964873843	0.0018291
PSMD5-AS1	AMICA1	0.990767249	0.000127472
TOPORS-AS1	AMICA1	0.968049667	0.001514928
AC087294.2	AMICA1	0.986628785	0.000266989
AP001062.8	AMICA1	0.973166296	0.001070411
RP11-455F5.3	AMICA1	0.990239026	0.00014245
RP11-326C3.2	AMICA1	0.999611826	2.26E-07
AP006621.8	AMICA1	0.994014895	5.36E-05
RP11-93O14.2	CALU	0.817986554	0.04667839
JHDM1D-AS1	AMICA1	0.990037473	0.000148384
RP11-20I23.6	AMICA1	0.995617328	2.88E-05
LA16c-359F1.1	CALU	0.880730426	0.020489528
RP11-66D17.5	CALU	-0.880436452	0.020588556
CTB-191K22.5	CALU	-0.817690835	0.046825276
RP11-160E2.19	AMICA1	0.980390979	0.000573001
AC005786.7	AMICA1	0.983657131	0.000398452
AC005944.2	AMICA1	0.969398361	0.001390362
CTB-191K22.5	AMICA1	0.955798123	0.002887528
RP11-20I23.8	AMICA1	0.991966457	9.65E-05
CDC37L1-AS1	AMICA1	0.974607722	0.000958966
RP11-473M20.11	CD84	0.874960167	0.022474943
RP5-1142A6.10	AMICA1	0.991821828	0.00010005
RP11-680G24.6	CD84	0.899998632	0.01450039
LA16c-359F1.1	CD84	0.908673211	0.012130014
RP11-556I13.1	AMICA1	0.99001724	0.000148986
RP3-337H4.8	HMGCL	0.847812341	0.03297921
MIR210HG	HMGCL	0.881719115	0.020158155

AC005944.2	AMOTL1	-0.94482015	0.004483218
AC024028.1	RTN2	0.813413731	0.048973706
RP11-160E2.19	AMPD2	0.935933448	0.006025303
AC011558.5	AMPD2	0.995833158	2.60E-05
RP11-498J9.2	ANGPT1	0.934196391	0.006352704
RP11-34P13.14	ANGPT1	0.967133833	0.001602527
RP11-93O14.2	ANGPT1	0.934613021	0.006273406
RP11-680G24.6	RTN2	0.912710548	0.011096624
Z69720.3	ANGPT1	0.958559818	0.002540351
RP3-337H4.8	ANGPTL4	0.918295737	0.009740668
RP11-498J9.2	ATP6V0A2	0.915392655	0.010434778
RP11-66D17.5	ANK1	0.983853449	0.000388962
RP11-126K1.8	ANK1	0.989278136	0.000171821
RP11-485G7.6	ATP6V0A2	0.907685866	0.012389503
RP11-118G23.2	ATP6V0A2	0.862737725	0.026968324
RP3-438O4.4	ANK1	0.973341331	0.001056554
NUP50-AS1	ANK1	0.982957132	0.000433214
PSMD5-AS1	ANK1	0.938082661	0.005631947
TOPORS-AS1	ANK1	0.937625405	0.005714548
LLNLR-284B4.1	MRPS22	-0.884643309	0.019193214
RP11-77G23.2	MRPS22	0.883063604	0.01971168
CTD-2541M15.3	MRPS22	0.813986517	0.048683396
RP11-160E2.19	MRPS22	-0.861309073	0.027518888
AC011558.5	MRPS22	-0.898895602	0.014816399
AC087294.2	ANK1	0.970493016	0.001293148
RP4-784A16.3	HPGD	0.878734436	0.02116638
AP001062.8	ANK1	0.984688223	0.000349881
RP11-455F5.3	ANK1	0.966054307	0.001708907
AP006621.8	ANK1	0.932650338	0.006651217
CTD-2621I17.8	HPGD	0.873658295	0.022934992
CCDC144NL-AS1	DHCR24	0.813797695	0.04877901
RP11-156P1.3	DHCR24	0.819926563	0.045720093
PSMD5-AS1	DHCR24	-0.82417778	0.043652543
AP006621.8	DHCR24	-0.820111747	0.045629103
CCDC144NL-AS1	MRPL12	0.823316	0.04406806
CTD-2531D15.5	MRPL12	0.883294102	0.019635617
RP11-770G2.2	MRPL12	0.911022955	0.01152316
CTB-31O20.6	MRPL12	0.812268495	0.049556555
CTD-2139B15.2	MRPL12	0.868888316	0.024658488
RP11-93O14.2	FER1L4	0.849504379	0.032269115
RP11-485G7.6	FER1L4	0.905666216	0.012928563
RP11-78A19.3	FER1L4	0.868868219	0.024665875
RP11-680G24.6	FER1L4	0.813297273	0.049032829
JHDM1D-AS1	ANK1	0.961705988	0.002171569
RP11-20I23.6	ANK1	0.946229803	0.00425912
CCDC144NL-AS1	KIAA0114	0.845191773	0.034093346
AC005786.7	ANK1	0.955017549	0.002989622
AC005944.2	ANK1	0.942857337	0.004804632
AC005943.6	KIAA0114	0.849621739	0.032220133
CTD-2139B15.2	KIAA0114	0.863833711	0.02654954
LLNLR-284B4.1	MINPP1	-0.880397291	0.020601765
RP11-77G23.2	MINPP1	0.828446492	0.041621447
CTB-191K22.5	ANK1	0.986730522	0.00026295
RP11-91K8.5	MINPP1	0.814944157	0.048199818
RP11-160E2.19	MINPP1	-0.863247047	0.026773321
RP11-20I23.8	ANK1	0.96025061	0.002338619
CDC37L1-AS1	ANK1	0.968731431	0.001451299
LL21NC02-21A1.1	ANK1	0.923721143	0.008505783
LA16c-359F1.1	GIGYF2	0.843511361	0.03481694
CTC-1337H24.3	GIGYF2	-0.824032728	0.043722353
RP11-66D17.5	GIGYF2	-0.855259092	0.02990874
RP5-1142A6.10	ANK1	0.926573975	0.007889138
CTB-31O20.6	HLA-DQA1	0.866821557	0.025423687

RP11-556I13.1	ANK1	0.96153618	0.002190745
MIR210HG	GFI1B	0.848203269	0.032814502
CTA-315H11.2	ANK3	-0.96320025	0.002006415
RP11-126K1.8	ANK3	0.950954587	0.003549191
RP3-438O4.4	ANK3	0.978338007	0.000698781
NUP50-AS1	ANK3	0.964244379	0.001894841
PSMD5-AS1	ANK3	0.984324699	0.000366647
TOPORS-AS1	ANK3	0.971631064	0.001195779
AC087294.2	ANK3	0.989623142	0.00016096
AP001062.8	ANK3	0.974878212	0.000938729
RP11-455F5.3	ANK3	0.992247878	8.99E-05
RP3-337H4.8	HES6	0.893680863	0.016354735
MIR210HG	HES6	0.853361961	0.030677514
CTD-2139B15.2	HES6	0.813737874	0.048809319
RP11-770G2.2	HSD17B10	0.831001238	0.040427521
CTD-2139B15.2	HSD17B10	0.885878724	0.01879236
CCDC144NL-AS1	POLD2	0.833970503	0.039060323
CTD-2531D15.5	POLD2	0.901491939	0.014077804
RP11-326C3.2	ANK3	0.998227238	4.71E-06
CTD-2139B15.2	POLD2	0.892535562	0.016702376
RP11-34P13.14	UBA6	0.847789737	0.032988745
RP11-118G23.2	UBA6	0.902898519	0.013685276
AP006621.8	ANK3	0.988955287	0.000182305
Z69720.3	UBA6	0.822638046	0.044396233
RP3-339A18.6	UBA6	0.839448088	0.036596108
CCDC144NL-AS1	PAICS	0.834732236	0.038713136
CTD-2531D15.5	PAICS	0.81714646	0.047096233
PSMD5-AS1	PAICS	-0.853316582	0.030696016
RP11-326C3.2	PAICS	-0.825750066	0.04289918
AP006621.8	PAICS	-0.852561769	0.03100454
RP11-160E2.19	PAICS	-0.876411213	0.021967423
AC005944.2	PAICS	-0.833094594	0.039461345
AC011558.5	PAICS	-0.858555002	0.028595108
MIR210HG	SPAG4	0.854030214	0.030405666
JHDM1D-AS1	ANK3	0.994203986	5.03E-05
CCDC144NL-AS1	RUVBL2	0.814485889	0.048430949
CTD-2531D15.5	RUVBL2	0.854087631	0.030382361
RP11-770G2.2	RUVBL2	0.884656345	0.019188963
RP11-20I23.6	ANK3	0.995766049	2.69E-05
AC024028.1	CEP170	0.890164158	0.017433343
RP11-160E2.19	ANK3	0.970687109	0.001276275
AC005786.7	ANK3	0.983902647	0.000386602
AC005944.2	ANK3	0.958476736	0.002550475
CTB-191K22.5	ANK3	0.954415861	0.003069511
RP11-20I23.8	ANK3	0.99483777	3.99E-05
CDC37L1-AS1	ANK3	0.982448691	0.000459369
RP5-1142A6.10	ANK3	0.988508191	0.000197334
RP11-556I13.1	ANK3	0.994234861	4.98E-05
CCDC144NL-AS1	MTHFD1	0.898367334	0.014968906
CTA-315H11.2	ANKH	-0.919906496	0.009365555
RP11-126K1.8	MTHFD1	-0.866553687	0.025523677
RP3-438O4.4	MTHFD1	-0.863162647	0.026805589
NUP50-AS1	MTHFD1	-0.87657596	0.021910151
RP11-66D17.5	ANKH	0.973447148	0.00104822
TOPORS-AS1	MTHFD1	-0.88435863	0.019286158
AC087294.2	MTHFD1	-0.903722304	0.013457874
AP001062.8	MTHFD1	-0.884549224	0.019223908
RP11-455F5.3	MTHFD1	-0.915351034	0.010444897
RP11-126K1.8	ANKH	0.992656776	8.07E-05
RP3-438O4.4	ANKH	0.990927331	0.000123097
JHDM1D-AS1	MTHFD1	-0.908910708	0.012067993
NUP50-AS1	ANKH	0.994966147	3.79E-05
PSMD5-AS1	ANKH	0.978513507	0.000687544

AC005786.7	MTHFD1	-0.905858217	0.012876839
TOPORS-AS1	ANKH	0.972369574	0.001134614
CTB-191K22.5	MTHFD1	-0.862355359	0.02711516
RP11-20I23.8	MTHFD1	-0.915156627	0.010492229
CDC37L1-AS1	MTHFD1	-0.868001532	0.024985449
AC087294.2	ANKH	0.996547422	1.79E-05
RP11-556I13.1	MTHFD1	-0.90875557	0.012108489
AP001062.8	ANKH	0.99934979	6.34E-07
RP11-455F5.3	ANKH	0.995538221	2.98E-05
RP11-326C3.2	ANKH	0.97031678	0.001308563
AP006621.8	ANKH	0.977027646	0.000785532
JHDM1D-AS1	ANKH	0.9925855	8.23E-05
RP11-20I23.6	ANKH	0.986351608	0.000278147
RP11-473M20.11	GEM	0.874050051	0.022796088
AC005786.7	ANKH	0.986840735	0.00025861
RP11-680G24.6	GEM	0.905851261	0.012878711
LA16c-359F1.1	GEM	0.91243152	0.01116661
AC005944.2	ANKH	0.971011405	0.001248328
RP11-485G7.6	DEFA4	0.832082319	0.039927189
CTB-191K22.5	ANKH	0.991648533	0.000104329
RP11-20I23.8	ANKH	0.99253464	8.34E-05
CDC37L1-AS1	ANKH	0.988662257	0.000192088
RP11-770G2.2	ECHS1	0.909754425	0.011848904
CTB-31O20.6	ECHS1	0.887672074	0.018217692
CTA-315H11.2	ECHS1	0.845959565	0.033765112
CCDC144NL-AS1	ZNRF1	0.833470188	0.03928915
RP5-1142A6.10	ANKH	0.974099342	0.000997578
RP11-66D17.5	ZNRF1	-0.881183718	0.02033728
RP11-126K1.8	ZNRF1	-0.905911328	0.012862549
RP11-556I13.1	ANKH	0.992470838	8.48E-05
NUP50-AS1	ZNRF1	-0.91188593	0.011304071
PSMD5-AS1	ZNRF1	-0.903234096	0.01359242
TOPORS-AS1	ZNRF1	-0.916804701	0.01009427
AC024028.1	ANKIB1	0.962182317	0.002118223
RP11-498J9.2	ANKIB1	0.947209751	0.004106657
RP11-34P13.14	ANKIB1	0.986160557	0.00028597
RP11-93O14.2	ANKIB1	0.939918232	0.005306286
AP006621.8	ZNRF1	-0.910874443	0.011561069
RP11-473M20.11	ANKIB1	0.926847958	0.007831105
RP11-78A19.3	ANKIB1	0.940123032	0.00527054
RP11-160E2.19	ZNRF1	-0.861742442	0.027351321
Z69720.3	ANKIB1	0.946413504	0.004230332
AC005944.2	ZNRF1	-0.867572414	0.025144403
CTB-191K22.5	ZNRF1	-0.90781673	0.012354957
RMRP	ZNRF1	-0.83014893	0.040824029
CTA-315H11.2	ANKRD13D	-0.964704382	0.001846686
RP3-438O4.4	ANKRD13D	0.939736332	0.005338134
RP5-1142A6.10	ZNRF1	-0.908506417	0.012173664
NUP50-AS1	ANKRD13D	0.932597591	0.00666152
RP3-438O4.4	ZCCHC10	-0.870885683	0.02392956
TOPORS-AS1	ZCCHC10	-0.846986394	0.033328479
AC087294.2	ZCCHC10	-0.84333993	0.034891161
AP001062.8	ZCCHC10	-0.828385823	0.041649997
RP11-455F5.3	ZCCHC10	-0.83740796	0.037505102
JHDM1D-AS1	ZCCHC10	-0.852265451	0.031126055
RP11-20I23.6	ZCCHC10	-0.820805435	0.045289007
AC005786.7	ZCCHC10	-0.817163685	0.047087649
RMRP	ZCCHC10	-0.904795093	0.013164494
RP11-20I23.8	ZCCHC10	-0.842022774	0.035463903
CDC37L1-AS1	ZCCHC10	-0.864359376	0.026349784
RP11-556I13.1	ZCCHC10	-0.85259951	0.030989078
MIR210HG	IAH1	0.840015356	0.036345219
RP11-485G7.6	SNX12	0.814762862	0.048291194

RP11-66D17.5	SNX12	-0.819185628	0.046084998
RP11-126K1.8	SNX12	-0.818418477	0.046464235
RP3-438O4.4	SNX12	-0.817227753	0.047055725
PSMD5-AS1	ANKRD13D	0.9804491	0.00056962
TOPORS-AS1	ANKRD13D	0.944417755	0.004548221
RP11-91K8.5	DUT	0.837046689	0.037667159
AC011558.5	DUT	-0.851521735	0.031432032
RP3-337H4.8	PSMC4	0.816235319	0.04755137
AC087294.2	ANKRD13D	0.962371781	0.002097186
RP3-337H4.8	CKS1B	0.878773903	0.021152895
MIR210HG	CKS1B	0.889536009	0.017629483
CTD-2139B15.2	CKS1B	0.81786891	0.046736799
RP5-1033H22.2	MRPS27	0.870774142	0.023969991
RP4-784A16.3	MRPS27	0.893168426	0.016509844
RP11-21J18.1	MRPS27	0.90430139	0.013299121
RP11-298J23.8	MRPS27	0.85127903	0.031532191
RP11-165D6.1	MRPS27	0.901086023	0.014192076
CTD-2621I17.8	MRPS27	0.838791069	0.036887704
RP11-77G23.2	MRPS27	0.816523659	0.047407118
AP001062.8	ANKRD13D	0.942202063	0.004914362
RP11-455F5.3	ANKRD13D	0.968585901	0.001464768
RP11-326C3.2	ANKRD13D	0.994658286	4.27E-05
AP006621.8	ANKRD13D	0.985378132	0.000319135
JHDM1D-AS1	ANKRD13D	0.968801226	0.001444861
RP11-473M20.11	DUSP10	0.861536072	0.027431056
RP11-20I23.6	ANKRD13D	0.980512372	0.000565951
RP11-680G24.6	DUSP10	0.916827983	0.010088702
RP11-160E2.19	ANKRD13D	0.995968594	2.43E-05
AC005786.7	ANKRD13D	0.962389469	0.002095227
AC024028.1	LYPLA1	0.836420591	0.037948787
AC005944.2	ANKRD13D	0.954029997	0.003121289
CTB-191K22.5	ANKRD13D	0.92176911	0.008940719
RP11-20I23.8	ANKRD13D	0.972016945	0.001163621
RP11-485G7.6	LYPLA1	0.877230177	0.021683425
RP11-118G23.2	LYPLA1	0.837254514	0.037573894
CDC37L1-AS1	ANKRD13D	0.94696325	0.004144752
RP5-1142A6.10	ANKRD13D	0.981026596	0.00053657
LA16c-359F1.1	LYPLA1	0.909207817	0.011990621
RP11-556I13.1	ANKRD13D	0.968802956	0.001444702
CCDC144NL-AS1	FAM82B	0.868664524	0.024740808
CTA-315H11.2	FAM82B	0.917198715	0.010000234
CTD-2139B15.2	FAM82B	0.866271797	0.025629102
RP3-438O4.4	FAM82B	-0.828461224	0.041614516
PSMD5-AS1	FAM82B	-0.820398646	0.045488301
TOPORS-AS1	FAM82B	-0.813690716	0.048833219
AC087294.2	FAM82B	-0.832813505	0.039590444
RP11-455F5.3	FAM82B	-0.839585861	0.0365351
RP11-326C3.2	FAM82B	-0.886297686	0.01865734
AP006621.8	FAM82B	-0.840885197	0.035962085
JHDM1D-AS1	FAM82B	-0.857271387	0.029103391
RP11-20I23.6	FAM82B	-0.852666853	0.0309615
RP11-160E2.19	FAM82B	-0.88277976	0.01980554
AC005786.7	FAM82B	-0.815590589	0.047874657
RP11-20I23.8	FAM82B	-0.85387649	0.0304681
CDC37L1-AS1	FAM82B	-0.845855108	0.03380968
RP5-1142A6.10	FAM82B	-0.835513621	0.038358501
RP11-556I13.1	FAM82B	-0.857716158	0.028926791
AC011558.5	FAM82B	-0.842719572	0.035160366
AC011558.5	ANKRD13D	0.924747994	0.008281226
CTA-315H11.2	ANKRD22	-0.953633865	0.003174888
RP11-66D17.5	ANKRD22	0.950890559	0.003558386
RP11-126K1.8	ANKRD22	0.981311198	0.000520643
RP3-438O4.4	ANKRD22	0.981029624	0.000536399

RP11-473M20.11	SLC45A3	0.897356884	0.01526271
NUP50-AS1	ANKRD22	0.985403327	0.000318039
RP11-680G24.6	SLC45A3	0.875102409	0.022424948
LA16c-359F1.1	SLC45A3	0.915105132	0.010504783
PSMD5-AS1	ANKRD22	0.995929544	2.48E-05
RP3-337H4.8	NDUFA8	0.834401306	0.038863791
TOPORS-AS1	ANKRD22	0.965625651	0.001752086
RP11-91K8.5	NDUFA8	0.84222208	0.035376956
AC011558.5	NDUFA8	-0.871288123	0.023783952
AC087294.2	ANKRD22	0.995480394	3.06E-05
AP001062.8	ANKRD22	0.991576126	0.000106144
CTB-31O20.6	HLA-DMB	0.893391226	0.016442319
RP3-337H4.8	ALAS1	0.833490192	0.039279989
RP11-455F5.3	ANKRD22	0.997825629	7.09E-06
RP11-326C3.2	ANKRD22	0.99020195	0.000143532
RP3-337H4.8	LXN	0.87680883	0.021829318
MIR210HG	LXN	0.830381998	0.040715422
AP006621.8	ANKRD22	0.99568043	2.79E-05
RP11-91K8.5	LXN	0.874586539	0.022606519
AC011558.5	LXN	-0.860489422	0.027837141
AC024028.1	TSC22D2	0.839472859	0.036585135
JHDM1D-AS1	ANKRD22	0.994619365	4.33E-05
RP11-20I23.6	ANKRD22	0.994602742	4.36E-05
RP11-160E2.19	ANKRD22	0.95509733	0.002979107
AC005786.7	ANKRD22	0.987153182	0.000246501
AC005944.2	ANKRD22	0.983746246	0.00039413
CTB-191K22.5	ANKRD22	0.982141424	0.000475545
RP11-20I23.8	ANKRD22	0.996263016	2.09E-05
CDC37L1-AS1	ANKRD22	0.983339887	0.000414027
RP11-77G23.2	ITGB1	0.845396523	0.034005668
CTD-2541M15.3	ITGB1	0.82096661	0.045210157
RMRP	DTD1	-0.9039135	0.013405358
LL21NC02-21A1.1	DTD1	-0.820696609	0.045342284
CCDC144NL-AS1	PRDX3	0.869718973	0.02435408
RP5-1142A6.10	ANKRD22	0.985570312	0.000310822
CTD-2541M15.3	PRDX3	0.838538504	0.037000086
RP3-438O4.4	PRDX3	-0.815987427	0.04767555
NUP50-AS1	PRDX3	-0.82030987	0.045531848
RP11-556I13.1	ANKRD22	0.994506757	4.52E-05
TOPORS-AS1	PRDX3	-0.830710337	0.04056265
AC087294.2	PRDX3	-0.859334617	0.02828847
AP001062.8	PRDX3	-0.830645838	0.040592639
RP11-455F5.3	PRDX3	-0.872822169	0.023232801
RP3-339A18.6	ANKRD27	0.954044037	0.003119398
RP11-498J9.2	ANKRD28	0.932780444	0.006625838
JHDM1D-AS1	PRDX3	-0.869522111	0.02442606
RP11-20I23.6	PRDX3	-0.895138479	0.015917382
RP11-34P13.14	ANKRD28	0.983302204	0.000415897
AC005786.7	PRDX3	-0.862984796	0.026873645
AC005944.2	PRDX3	-0.890301576	0.017390575
RP11-20I23.8	PRDX3	-0.876864741	0.021809932
CDC37L1-AS1	PRDX3	-0.830061024	0.040865028
RP5-1142A6.10	PRDX3	-0.904454125	0.013257402
RP11-556I13.1	PRDX3	-0.869453325	0.024451235
RP11-93O14.2	ANKRD28	0.941005811	0.005117812
RP11-78A19.3	ANKRD28	0.924306158	0.00837749
RP11-680G24.6	ANKRD28	0.917713452	0.00987803
Z69720.3	ANKRD28	0.960571951	0.00230121
CTA-315H11.2	ANKRD30BL	-0.945741186	0.004336159
RP11-118G23.2	GTDC1	0.816659653	0.047339152
RP11-66D17.5	ANKRD30BL	0.950244931	0.003651764
RP11-126K1.8	ANKRD30BL	0.97284269	0.001096265
RP3-438O4.4	ANKRD30BL	0.993698542	5.94E-05

NUP50-AS1	ANKRD30BL	0.983525845	0.000404861
RP11-498J9.2	TBC1D13	0.853775159	0.030509288
RP11-34P13.14	TBC1D13	0.897266513	0.015289121
RP11-93O14.2	TBC1D13	0.907939792	0.012322514
RP11-485G7.6	TBC1D13	0.819449253	0.04595501
RP11-118G23.2	TBC1D13	0.87357285	0.022965342
RP11-78A19.3	TBC1D13	0.875877517	0.022153447
PSMD5-AS1	ANKRD30BL	0.982245427	0.000470039
LA16c-359F1.1	TBC1D13	0.877570905	0.021565787
Z69720.3	TBC1D13	0.887890767	0.018148199
LL21NC02-21A1.1	TBC1D13	-0.825399778	0.043066492
CCDC144NL-AS1	SRP9	0.823861116	0.043805014
CTA-315H11.2	SRP9	0.891168866	0.017121814
CTD-2541M15.3	SRP9	0.89972507	0.014578457
PSMD5-AS1	SRP9	-0.863304783	0.026751259
RP11-326C3.2	SRP9	-0.868133096	0.024936811
AP006621.8	SRP9	-0.86802398	0.024977147
RP11-20I23.6	SRP9	-0.82093408	0.045226067
TOPORS-AS1	ANKRD30BL	0.980052526	0.000592884
AC005944.2	SRP9	-0.835013812	0.038585165
RP5-1142A6.10	SRP9	-0.830833429	0.040505445
AC087294.2	ANKRD30BL	0.998911004	1.78E-06
RP11-34P13.14	STARD4	0.874521961	0.022629298
RP11-93O14.2	STARD4	0.880333457	0.020623305
AP001062.8	ANKRD30BL	0.991493281	0.000108239
RP11-78A19.3	STARD4	0.860503096	0.027831817
RP11-455F5.3	ANKRD30BL	0.998826662	2.06E-06
RP11-326C3.2	ANKRD30BL	0.988496209	0.000197745
Z69720.3	STARD4	0.842429608	0.03528653
LL21NC02-21A1.1	STARD4	-0.850796268	0.031731862
AP006621.8	ANKRD30BL	0.984286293	0.000368441
RP11-680G24.6	ENPP3	0.881486272	0.020235963
RP3-339A18.6	ENPP3	0.913469353	0.010907378
RMRP	TSPAN4	-0.891628596	0.016980165
RP3-337H4.8	PARVB	0.878930666	0.021099371
MIR210HG	PARVB	0.857382976	0.029059036
JHDM1D-AS1	ANKRD30BL	0.999999212	9.32E-13
RP11-770G2.2	PRTN3	0.904822191	0.013157124
CTB-31O20.6	PRTN3	0.851002739	0.031646392
RP11-20I23.6	ANKRD30BL	0.996735909	1.60E-05
RP11-160E2.19	ANKRD30BL	0.943792601	0.00465012
AC005786.7	ANKRD30BL	0.991761865	0.000101521
AC005944.2	ANKRD30BL	0.965172813	0.001798278
CTB-191K22.5	ANKRD30BL	0.976773127	0.000802966
RP11-20I23.8	ANKRD30BL	0.999768356	8.05E-08
CDC37L1-AS1	ANKRD30BL	0.995258828	3.37E-05
RP5-1142A6.10	ANKRD30BL	0.986392451	0.000276488
RP11-556I13.1	ANKRD30BL	1	0
RP11-118G23.2	TJP2	0.864736449	0.026206936
RP4-784A16.3	TJP2	0.899418242	0.014666258
RP11-77G23.2	TJP2	0.855081701	0.029980233
RP11-66D17.5	TJP2	-0.859760366	0.028121675
NUP50-AS1	TJP2	-0.835698949	0.038274613
AC005786.7	TJP2	-0.812346488	0.04951676
AC005944.2	TJP2	-0.851681577	0.031366151
CTB-191K22.5	TJP2	-0.834309578	0.038905598
LL21NC02-21A1.1	TJP2	-0.838588749	0.036977716
AC024028.1	TAF13	0.844884762	0.034225012
RP11-118G23.2	ANKRD36BP1	0.961337182	0.002213323
AC024028.1	ANKRD44	0.987201114	0.000244669
RP11-498J9.2	ANKRD44	0.994209302	5.02E-05
RP11-34P13.14	ANKRD44	0.977351675	0.000763611
RP11-93O14.2	ANKRD44	0.965510603	0.001763765

RP11-485G7.6	ANKRD44	0.937384802	0.005758248
RP11-473M20.11	ANKRD44	0.952293567	0.003359568
RP11-78A19.3	ANKRD44	0.968808135	0.001444225
AC024028.1	FNDC3B	0.884247494	0.019322501
Z69720.3	ANKRD44	0.97607577	0.000851706
RP11-34P13.14	ANKRD50	0.922558828	0.00876349
RP11-93O14.2	ANKRD50	0.927979114	0.007593726
RP11-680G24.6	ANKRD50	0.957887218	0.002622886
RP11-118G23.2	FNDC3B	0.826108611	0.04272824
CTA-315H11.2	ANKRD55	-0.965584375	0.001756271
RP11-66D17.5	ANKRD55	0.919830505	0.009383091
RP11-126K1.8	ANKRD55	0.956301435	0.002822624
RP3-438O4.4	ANKRD55	0.97353129	0.001041617
RP11-118G23.2	SPG20	0.875092649	0.022428377
RP4-784A16.3	SPG20	0.867372988	0.025218437
RP11-77G23.2	SPG20	0.867428639	0.025197767
RP11-66D17.5	SPG20	-0.847972786	0.032911563
NUP50-AS1	SPG20	-0.816114193	0.047612029
AC005944.2	SPG20	-0.831394758	0.040245059
CTB-191K22.5	SPG20	-0.814121257	0.048615221
LL21NC02-21A1.1	SPG20	-0.83017305	0.040812784
RMRP	CKB	-0.827878345	0.04188917
RP11-118G23.2	KRT19	0.880565053	0.020545208
NUP50-AS1	ANKRD55	0.967080947	0.00160766
RP11-66D17.5	KRT19	-0.831127456	0.040368956
LL21NC02-21A1.1	KRT19	-0.83895207	0.036816149
CCDC144NL-AS1	PSMA3	0.908755249	0.012108573
CTD-2531D15.5	PSMA3	0.819459212	0.045950103
CTA-315H11.2	PSMA3	0.869351096	0.024488672
CTD-2139B15.2	PSMA3	0.83029935	0.04075392
RP11-326C3.2	PSMA3	-0.84820048	0.032815676
RP11-160E2.19	PSMA3	-0.867605371	0.025132178
AC011558.5	PSMA3	-0.872889333	0.023208811
RP11-498J9.2	MAGED1	0.870176087	0.02418733
RP11-34P13.14	MAGED1	0.833085659	0.039465446
RP11-93O14.2	MAGED1	0.906344892	0.012746181
RP11-485G7.6	MAGED1	0.905873664	0.012872682
RP11-78A19.3	MAGED1	0.880739424	0.020486501
LA16c-359F1.1	MAGED1	0.836898588	0.037733688
Z69720.3	MAGED1	0.86452896	0.026285494
RP11-66D17.5	APOL4	-0.87039126	0.024109027
RP11-126K1.8	APOL4	-0.85627348	0.029501467
RP3-438O4.4	APOL4	-0.912660721	0.011109106
NUP50-AS1	APOL4	-0.863897071	0.026525425
TOPORS-AS1	APOL4	-0.873240103	0.023083714
AC087294.2	APOL4	-0.874552701	0.022618454
AP001062.8	APOL4	-0.876243588	0.022025769
RP11-455F5.3	APOL4	-0.862022177	0.027243417
JHDM1D-AS1	APOL4	-0.874221312	0.022735491
RP11-20I23.6	APOL4	-0.840802561	0.035998401
AC005786.7	APOL4	-0.855217181	0.029925624
CTB-191K22.5	APOL4	-0.856582227	0.029378031
RMRP	APOL4	-0.885956923	0.018767123
RP11-20I23.8	APOL4	-0.864714296	0.026215318
CDC37L1-AS1	APOL4	-0.905996952	0.012839527
RP11-556I13.1	APOL4	-0.874472154	0.022646874
PSMD5-AS1	ANKRD55	0.991683675	0.000103454
CTD-2139B15.2	GSTT1	0.827828848	0.041912532
RP11-91K8.5	GSTT1	0.862236956	0.027160706
AC024028.1	SLC27A2	0.841269947	0.035793224
TOPORS-AS1	ANKRD55	0.966723717	0.001642543
AC087294.2	ANKRD55	0.989044483	0.000179378
AP001062.8	ANKRD55	0.976337734	0.00083323

RP11-485G7.6	SLC27A2	0.878647638	0.021196052
RP11-118G23.2	SLC27A2	0.835874568	0.0381952
RP11-455F5.3	ANKRD55	0.992646223	8.09E-05
RP11-326C3.2	ANKRD55	0.999464529	4.30E-07
LA16c-359F1.1	SLC27A2	0.912247991	0.011212759
AP006621.8	ANKRD55	0.99497654	3.78E-05
JHDM1D-AS1	ANKRD55	0.992416861	8.60E-05
AC024028.1	LMO4	0.830375265	0.040718558
RP11-20I23.6	ANKRD55	0.995853255	2.58E-05
RP11-160E2.19	ANKRD55	0.976434874	0.00082643
AC005786.7	ANKRD55	0.983446858	0.000408742
RP11-485G7.6	LMO4	0.898346826	0.014974842
RP11-78A19.3	LMO4	0.9138141	0.010821919
AC005944.2	ANKRD55	0.969244865	0.001404272
LA16c-359F1.1	LMO4	0.90601028	0.012835945
CTB-191K22.5	ANKRD55	0.958924997	0.002496084
RP3-337H4.8	MRPL27	0.850267291	0.031951331
RP11-20I23.8	ANKRD55	0.994006094	5.38E-05
RP11-473M20.11	RANBP1	-0.826917791	0.042343626
CCDC144NL-AS1	RANBP1	0.862865367	0.026919391
CTD-2531D15.5	RANBP1	0.908345176	0.012215932
RP11-770G2.2	RANBP1	0.877146229	0.021712454
CTA-315H11.2	RANBP1	0.816806341	0.047265893
CTD-2139B15.2	RANBP1	0.851355086	0.031500788
AC011558.5	RANBP1	-0.842463157	0.035271922
CTD-2139B15.2	SLC39A3	0.873100967	0.023133296
CDC37L1-AS1	ANKRD55	0.977781036	0.000735039
RP5-1142A6.10	ANKRD55	0.989709366	0.000158301
RP11-556I13.1	ANKRD55	0.992391653	8.66E-05
AC024028.1	ANKRD57	0.954040841	0.003119828
RP11-118G23.2	FOSL1	0.834115423	0.038994159
RP11-498J9.2	ANKRD57	0.998059555	5.64E-06
RP11-34P13.14	ANKRD57	0.985227201	0.000325741
RP11-93O14.2	ANKRD57	0.991017442	0.000120667
RP11-485G7.6	ANKRD57	0.963483214	0.001975866
AC024028.1	SC5DL	0.904997668	0.013109446
RP11-78A19.3	ANKRD57	0.988692428	0.000191069
LA16c-359F1.1	ANKRD57	0.917216204	0.00999607
Z69720.3	ANKRD57	0.989207058	0.000174103
RP11-66D17.5	ANKRD58	0.934286929	0.00633543
RP11-473M20.11	SC5DL	0.828163407	0.041754743
NUP50-AS1	ANKRD58	0.937109331	0.005808481
TOPORS-AS1	ANKRD58	0.955902514	0.002874007
AP001062.8	ANKRD58	0.917276294	0.009981769
RP11-20I23.6	ANKRD58	0.926203753	0.007967886
RP11-498J9.2	HS6ST1	0.870130199	0.024204045
AC005786.7	ANKRD58	0.950597457	0.003600631
RP11-93O14.2	HS6ST1	0.896366447	0.015553362
RP11-118G23.2	HS6ST1	0.819941371	0.045712815
RP11-78A19.3	HS6ST1	0.863589917	0.026642427
RP11-680G24.6	HS6ST1	0.906845359	0.012612493
LA16c-359F1.1	HS6ST1	0.83908453	0.036757327
AC005944.2	ANKRD58	0.933248563	0.006534917
CTB-191K22.5	ANKRD58	0.92646708	0.007911836
RP5-1142A6.10	ANKRD58	0.950437988	0.003623718
CTD-2139B15.2	UROS	0.880587494	0.020537648
RP11-91K8.5	UROS	0.875409718	0.022317116
CCDC144NL-AS1	PLXND1	0.845162383	0.03410594
CTD-2531D15.5	PLXND1	0.822857871	0.0442897
RP11-156P1.3	PLXND1	0.83736678	0.037523558
RP11-126K1.8	PLXND1	-0.817115488	0.047111671
PSMD5-AS1	PLXND1	-0.837250109	0.03757587
AP006621.8	PLXND1	-0.835334796	0.038439526

AC005944.2	PLXND1	-0.813573785	0.048892504
RMRP	ANXA2P2	-0.911659909	0.011361256
RP11-498J9.2	FAM168B	0.822223235	0.044597587
RP11-34P13.14	FAM168B	0.895216664	0.015894084
RP11-93O14.2	FAM168B	0.880574004	0.020542192
AC024028.1	ANKRD6	0.9332507	0.006534504
RP11-78A19.3	FAM168B	0.850665264	0.031786148
RP11-473M20.11	ANKRD6	0.977750591	0.000737047
LA16c-359F1.1	FAM168B	0.879967482	0.020747005
Z69720.3	FAM168B	0.8710534	0.023868827
RP11-66D17.5	ANKRD9	0.980886007	0.000544526
RP4-784A16.3	TPSAB1	0.81219175	0.049595728
RP11-126K1.8	ANKRD9	0.996768749	1.56E-05
RP3-438O4.4	ANKRD9	0.955062891	0.002983644
NUP50-AS1	ANKRD9	0.985521391	0.000312928
CTD-2621I17.8	TPSAB1	0.834271216	0.038923089
CCDC144NL-AS1	CDK4	0.870926163	0.023914894
CTD-2531D15.5	CDK4	0.907219041	0.012513116
RP11-770G2.2	CDK4	0.880127926	0.020692732
CTD-2139B15.2	CDK4	0.877200439	0.021693706
RP3-337H4.8	HBG1	0.905486712	0.01297701
RP11-767C1.1	HBG1	0.819051672	0.046151114
MIR210HG	HBG1	0.885835299	0.018806381
AC024028.1	LAPTM4B	0.825795832	0.042877343
RP11-498J9.2	LAPTM4B	0.912900205	0.011049176
RP11-34P13.14	LAPTM4B	0.907207922	0.012516068
PSMD5-AS1	ANKRD9	0.958053911	0.00260231
RP11-485G7.6	LAPTM4B	0.894192971	0.01620043
RP11-78A19.3	LAPTM4B	0.911920179	0.011295418
RP11-680G24.6	LAPTM4B	0.847701954	0.033025789
LA16c-359F1.1	LAPTM4B	0.846406537	0.03357472
Z69720.3	LAPTM4B	0.91634754	0.010203912
TOPORS-AS1	ANKRD9	0.926881475	0.007824021
AC087294.2	ANKRD9	0.966080159	0.00170632
AP001062.8	ANKRD9	0.983727846	0.00039502
RP11-455F5.3	ANKRD9	0.965140805	0.001801565
RP11-326C3.2	ANKRD9	0.923182805	0.008624678
RP11-473M20.11	RAMP1	0.898256309	0.015001054
AP006621.8	ANKRD9	0.950123877	0.003669405
RP11-680G24.6	RAMP1	0.855868254	0.029663847
LA16c-359F1.1	RAMP1	0.901066514	0.01419758
JHDM1D-AS1	ANKRD9	0.954724606	0.003028388
RP11-498J9.2	LDLR	0.851626698	0.031388763
RP11-34P13.14	LDLR	0.896091994	0.01563437
RP11-93O14.2	LDLR	0.896634208	0.015474525
RP11-485G7.6	LDLR	0.828035	0.041815271
RP11-118G23.2	LDLR	0.885083288	0.019049989
RP11-78A19.3	LDLR	0.866787103	0.025436537
RP11-20I23.6	ANKRD9	0.947012585	0.004137114
LA16c-359F1.1	LDLR	0.900873869	0.014251978
Z69720.3	LDLR	0.905023264	0.013102498
LL21NC02-21A1.1	LDLR	-0.81237705	0.049501171
AC005786.7	ANKRD9	0.953049804	0.003254735
AC005944.2	ANKRD9	0.968480169	0.001474592
CTB-191K22.5	ANKRD9	0.990607783	0.000131906
RP11-20I23.8	ANKRD9	0.956189243	0.002837029
CDC37L1-AS1	ANKRD9	0.949886625	0.003704099
RP11-473M20.11	NTRK1	0.889514107	0.017636341
LL21NC02-21A1.1	ANKRD9	0.923630788	0.008525682
RP11-680G24.6	NTRK1	0.887936934	0.018133545
LA16c-359F1.1	NTRK1	0.914842948	0.010568818
RP5-1142A6.10	ANKRD9	0.933215575	0.006541305
RP11-556I13.1	ANKRD9	0.954405686	0.003070871

RP11-34P13.14	ANO6	0.971643485	0.001194737
RP11-93O14.2	ANO6	0.936741319	0.005875921
RP11-78A19.3	ANO6	0.91871629	0.00964204
RP11-680G24.6	ANO6	0.923799288	0.008488591
RP11-473M20.11	FCER1A	0.900408673	0.014383754
Z69720.3	ANO6	0.936104616	0.0059935
RP11-680G24.6	FCER1A	0.871900911	0.023563052
LA16c-359F1.1	FCER1A	0.908894103	0.012072324
RP11-66D17.5	ANO7L1	0.971086287	0.001241918
RP3-337H4.8	IDH2	0.868065492	0.024961798
MIR210HG	IDH2	0.851518978	0.031433169
CTD-2139B15.2	IDH2	0.897756269	0.015146254
CCDC144NL-AS1	UQCRFS1	0.892820406	0.016615587
CTD-2531D15.5	UQCRFS1	0.845197473	0.034090903
RP11-770G2.2	UQCRFS1	0.818989511	0.04618181
CTB-31O20.6	UQCRFS1	0.813484671	0.048937707
CTA-315H11.2	UQCRFS1	0.850413442	0.031890623
RP11-126K1.8	ANO7L1	0.996741783	1.59E-05
AC011558.5	UQCRFS1	-0.816848562	0.047244817
RP11-118G23.2	HMGCS1	0.869391954	0.024473706
RP3-438O4.4	ANO7L1	0.949932764	0.00369734
CTC-1337H24.3	HMGCS1	-0.832347118	0.039805082
RP3-337H4.8	GSTM3	0.84117281	0.035835821
MIR210HG	GSTM3	0.82155655	0.044922093
CTD-2139B15.2	GSTM3	0.906516418	0.012700285
NUP50-AS1	ANO7L1	0.980189912	0.000584772
RP3-337H4.8	SRI	0.850437093	0.031880804
MIR210HG	SRI	0.824021079	0.043727962
PSMD5-AS1	ANO7L1	0.962944497	0.002034225
RP11-91K8.5	SRI	0.849018926	0.032472099
AC011558.5	SRI	-0.863119225	0.026822197
AC087294.2	ANO7L1	0.964518506	0.00186607
RP11-126K1.8	PDLIM1	-0.844853176	0.034238572
RMRP	PDLIM1	-0.87655474	0.021917524
RP3-337H4.8	SREBF1	0.847293492	0.033198413
MIR210HG	SREBF1	0.840596708	0.036088942
AP001062.8	ANO7L1	0.980918223	0.000542697
RP11-91K8.5	SREBF1	0.86951645	0.024428131
AC011558.5	SREBF1	-0.817922136	0.046710368
CTA-315H11.2	FADS1	0.8250454	0.043236066
RP11-455F5.3	ANO7L1	0.965285724	0.001786705
RP11-326C3.2	ANO7L1	0.926685456	0.0078655
AP006621.8	ANO7L1	0.955641056	0.002907931
JHDM1D-AS1	ANO7L1	0.954305391	0.003084291
RP11-20I23.6	ANO7L1	0.945588308	0.004360402
AC005786.7	ANO7L1	0.94710388	0.004122998
AC005944.2	ANO7L1	0.969052671	0.001421786
CTB-191K22.5	ANO7L1	0.986789115	0.000260638
RP11-20I23.8	ANO7L1	0.95598461	0.002863395
CDC37L1-AS1	ANO7L1	0.946742371	0.004179033
RP5-1142A6.10	ANO7L1	0.929087237	0.007364633
RP11-556I13.1	ANO7L1	0.953968252	0.003129614
CTA-315H11.2	ANO9	-0.968444698	0.001477895
RP11-160E2.19	FADS1	-0.84903083	0.032467114
RP3-438O4.4	ANO9	0.923525302	0.008548943
PSMD5-AS1	ANO9	0.975626858	0.000883836
TOPORS-AS1	ANO9	0.928007905	0.00758773
AC087294.2	ANO9	0.95065342	0.003592546
AP001062.8	ANO9	0.92881952	0.007419667
LL21NC02-21A1.1	FADS1	-0.906521848	0.012698834
RP11-455F5.3	ANO9	0.958831939	0.002507328
RP11-326C3.2	ANO9	0.990442157	0.000136592
CCDC144NL-AS1	RNH1	0.888497277	0.017956137

AP006621.8	ANO9	0.981729447	0.00049767
RP11-498J9.2	JUP	0.87888821	0.021113861
RP11-34P13.14	JUP	0.89108484	0.017147765
JHDM1D-AS1	ANO9	0.958211927	0.002582878
RP11-485G7.6	JUP	0.871601302	0.023670934
RP11-78A19.3	JUP	0.887983549	0.018118754
RP11-680G24.6	JUP	0.899780873	0.014562516
LA16c-359F1.1	JUP	0.875573732	0.022259667
Z69720.3	JUP	0.907277017	0.012497732
RP11-118G23.2	CANX	0.893613223	0.016375169
RP4-784A16.3	CANX	0.840937499	0.035939108
RP3-339A18.6	CANX	0.882953337	0.019748117
CTC-1337H24.3	CANX	-0.84868723	0.032611137
RP11-66D17.5	CANX	-0.885605334	0.018880717
RP11-126K1.8	CANX	-0.850905135	0.031686783
NUP50-AS1	CANX	-0.849684268	0.032194051
AP001062.8	CANX	-0.820590383	0.045394314
AC005944.2	CANX	-0.842204182	0.03538476
CTB-191K22.5	CANX	-0.857522981	0.029003431
LL21NC02-21A1.1	CANX	-0.905172373	0.01306206
AC024028.1	PTRF	0.899209736	0.014726068
RP11-20I23.6	ANO9	0.970341542	0.001306392
RP11-160E2.19	ANO9	0.996857289	1.48E-05
AC005786.7	ANO9	0.947856036	0.0040076
AC005944.2	ANO9	0.943299995	0.004731194
RP11-473M20.11	PTRF	0.819616813	0.045872479
RP11-20I23.8	ANO9	0.961750496	0.002166557
RP11-680G24.6	PTRF	0.907666743	0.012394555
LA16c-359F1.1	PTRF	0.908261929	0.012237782
CDC37L1-AS1	ANO9	0.931371713	0.006903148
RMRP	CTSH	-0.865591583	0.025884348
RP5-1142A6.10	ANO9	0.970114197	0.001326395
RP11-556I13.1	ANO9	0.958192662	0.002585244
CTD-2139B15.2	MGST3	0.893325113	0.016462342
RP11-91K8.5	MGST3	0.822180439	0.044618385
CTA-315H11.2	CYTL1	0.830733536	0.040551865
CTD-2139B15.2	CYTL1	0.899011546	0.014783028
AC011558.5	ANO9	0.932789724	0.00662403
RP11-160E2.19	CYTL1	-0.862955702	0.026884786
AC011558.5	CYTL1	-0.907410617	0.012462316
CTD-2139B15.2	ANTXR2	-0.919723524	0.009407805
RP3-339A18.6	SFXN1	0.832403731	0.039778999
RP11-66D17.5	SFXN1	-0.897888056	0.015107921
RP11-126K1.8	SFXN1	-0.82891021	0.041403528
NUP50-AS1	SFXN1	-0.859073503	0.028390996
TOPORS-AS1	SFXN1	-0.837029325	0.037674956
AP001062.8	SFXN1	-0.828391371	0.041647386
AC005786.7	SFXN1	-0.824509043	0.04349331
AC005944.2	SFXN1	-0.815989836	0.047674343
CTB-191K22.5	SFXN1	-0.853932226	0.030445456
LL21NC02-21A1.1	SFXN1	-0.876439291	0.021957657
CCDC144NL-AS1	AHCY	0.915079056	0.010511144
AC024028.1	ANXA1	0.96267713	0.0020635
RP11-473M20.11	ANXA1	0.964021464	0.001918396
AC011558.5	ANXA3	0.957482919	0.002673124
CTA-315H11.2	AHCY	0.822257438	0.044580969
AC005943.6	AHCY	0.820544913	0.045416595
RP11-498J9.2	ANXA5	0.943127245	0.004759788
RP11-93O14.2	ANXA5	0.947668359	0.004036243
AC024028.1	C1orf150	0.817458419	0.04694087
RP11-498J9.2	C1orf150	0.879673577	0.020846602
RP11-485G7.6	ANXA5	0.973548876	0.00104024
RP11-93O14.2	C1orf150	0.909213522	0.011989137

RP11-118G23.2	C1orf150	0.850731993	0.031758491
RP11-78A19.3	C1orf150	0.882186147	0.020002522
RP11-78A19.3	ANXA5	0.94314024	0.004757634
LA16c-359F1.1	C1orf150	0.871465379	0.023719953
LA16c-359F1.1	ANXA5	0.942198271	0.004915001
CTB-31O20.6	AZU1	0.839927493	0.036384026
CCDC144NL-AS1	ESD	0.866594186	0.025508548
CTB-31O20.6	ESD	0.815014031	0.048164621
Z69720.3	ANXA5	0.955076667	0.002981829
CTD-2139B15.2	ESD	0.894224924	0.016190825
RP11-91K8.5	ESD	0.834556343	0.038793176
PSMD5-AS1	ESD	-0.844587574	0.034352693
AC087294.2	ESD	-0.815588253	0.04787583
RP11-455F5.3	ESD	-0.827238617	0.042191582
RP11-326C3.2	ESD	-0.887338453	0.018323951
AP006621.8	ESD	-0.859662604	0.028159934
JHDM1D-AS1	ESD	-0.837957085	0.037259405
RP11-20I23.6	ESD	-0.843938501	0.034632333
CTA-315H11.2	ANXA6	-0.960476845	0.00231225
RP11-20I23.8	ESD	-0.839269341	0.036675332
CDC37L1-AS1	ESD	-0.816674939	0.047331515
RP5-1142A6.10	ESD	-0.831996283	0.0399669
RP11-556I13.1	ESD	-0.83822607	0.03713933
AC011558.5	ESD	-0.897806326	0.015131688
MIR210HG	MRPS28	0.838947924	0.036817991
CCDC144NL-AS1	THOC4	0.909205619	0.011991192
CTD-2531D15.5	THOC4	0.893402971	0.016438763
RP11-126K1.8	ANXA6	0.919910068	0.009364732
CTB-31O20.6	THOC4	0.900208864	0.014440533
CTA-315H11.2	THOC4	0.880630473	0.020523173
CTD-2139B15.2	THOC4	0.896110125	0.015629012
RP3-438O4.4	ANXA6	0.946610132	0.004199624
RP11-680G24.6	HSD17B12	0.884193506	0.019340167
RP3-339A18.6	HSD17B12	0.852981467	0.030832811
CTC-1337H24.3	HSD17B12	-0.827691874	0.041977214
RP11-66D17.5	HSD17B12	-0.843194322	0.03495426
LL21NC02-21A1.1	HSD17B12	-0.888678285	0.017899008
MIR210HG	SNRPE	0.903879245	0.01341476
NUP50-AS1	ANXA6	0.939507734	0.005378291
MIR210HG	TMEM14C	0.900635658	0.014319383
PSMD5-AS1	ANXA6	0.981612075	0.000504065
RP11-91K8.5	TMEM14C	0.847209451	0.033233984
AC024028.1	IL1RAP	0.903300722	0.01357402
TOPORS-AS1	ANXA6	0.952286504	0.003360555
AC087294.2	ANXA6	0.967096452	0.001606154
AP001062.8	ANXA6	0.947891417	0.004002211
RP11-485G7.6	IL1RAP	0.91174147	0.011340604
RP11-473M20.11	IL1RAP	0.828258846	0.041709781
RP11-455F5.3	ANXA6	0.972331774	0.001137706
RP11-326C3.2	ANXA6	0.99563653	2.85E-05
AP006621.8	ANXA6	0.985989658	0.000293059
JHDM1D-AS1	ANXA6	0.972857906	0.001095042
CCDC144NL-AS1	BANF1	0.903598954	0.013491807
CTD-2531D15.5	BANF1	0.910232791	0.011725549
RP11-20I23.6	ANXA6	0.984507417	0.000358171
CTB-31O20.6	BANF1	0.897629536	0.015183161
CTA-315H11.2	BANF1	0.837572434	0.037431431
CTD-2139B15.2	BANF1	0.892376563	0.016750916
RP11-160E2.19	ANXA6	0.994270448	4.91E-05
AC005786.7	ANXA6	0.968738347	0.001450661
AC005944.2	ANXA6	0.958033147	0.002604869
CTB-191K22.5	ANXA6	0.928708183	0.007442614
RP11-20I23.8	ANXA6	0.9759187	0.000862881

CDC37L1-AS1	ANXA6	0.953190556	0.003235403
RP5-1142A6.10	ANXA6	0.985671464	0.00030649
RP11-556I13.1	ANXA6	0.972867887	0.001094241
AC011558.5	ANXA6	0.919963724	0.00935236
RP11-160E2.19	AOAH	0.966801115	0.001634954
AC011558.5	AOAH	0.981126645	0.000530944
AC024028.1	DAPK1	0.844496528	0.034391854
RP11-498J9.2	DAPK1	0.907386842	0.012468615
RP11-485G7.6	DAPK1	0.838590979	0.036976724
RP11-118G23.2	DAPK1	0.839690439	0.036488823
RP11-78A19.3	DAPK1	0.908500091	0.012175321
LA16c-359F1.1	DAPK1	0.894396965	0.016139159
RP11-118G23.2	KIT	0.883171668	0.019676002
CTC-1337H24.3	KIT	-0.845668352	0.033889431
RP4-784A16.3	HSPD1	0.829782417	0.040995094
RP11-77G23.2	HSPD1	0.894353693	0.016152146
CTD-2541M15.3	HSPD1	0.83979934	0.036440662
RP11-126K1.8	HSPD1	-0.827404257	0.042113183
NUP50-AS1	HSPD1	-0.841119404	0.035859251
PSMD5-AS1	HSPD1	-0.901617745	0.014042478
AC087294.2	HSPD1	-0.828401958	0.041642404
AP001062.8	HSPD1	-0.829130253	0.041300309
RP11-455F5.3	HSPD1	-0.838472475	0.037029493
RP11-326C3.2	HSPD1	-0.868443062	0.024822399
AP006621.8	HSPD1	-0.89317701	0.01650724
JHDM1D-AS1	HSPD1	-0.820991956	0.045197764
RP11-20I23.6	HSPD1	-0.856042422	0.029594004
RP11-160E2.19	HSPD1	-0.911066282	0.011512112
AC005786.7	HSPD1	-0.847308619	0.033192013
CTB-191K22.5	HSPD1	-0.838690211	0.036932563
RP11-20I23.8	HSPD1	-0.832464435	0.03975104
RP5-1142A6.10	HSPD1	-0.879588163	0.020875589
RP11-556I13.1	HSPD1	-0.820562204	0.045408122
AC011558.5	HSPD1	-0.877532922	0.021578886
RP3-337H4.8	C6orf125	0.861892952	0.027293239
MIR210HG	C6orf125	0.814948331	0.048197715
CTD-2139B15.2	C6orf125	0.860315383	0.02790494
CCDC144NL-AS1	RAN	0.813354173	0.049003938
CTD-2139B15.2	RAN	0.913221448	0.010969032
AC011558.5	RAN	-0.886199766	0.018688855
RP3-337H4.8	NME4	0.911552704	0.011388428
RP11-767C1.1	NME4	0.829043833	0.041340833
CTC-1337H24.3	NME4	0.8753624	0.022333703
CTB-31O20.6	MPO	0.851626589	0.031388808
AC024028.1	ATF3	0.867003688	0.025355808
RP11-680G24.6	ATF3	0.88509208	0.019047133
LLNLR-284B4.1	APLP2	-0.895235226	0.015888556
RP4-784A16.3	APLP2	0.876699451	0.021867267
CTD-2541M15.3	APLP2	0.838207503	0.037147612
RP11-160E2.19	APLP2	-0.834989801	0.03859607
AC005944.2	APLP2	-0.830779753	0.040530386
AC011558.5	APLP2	-0.85611337	0.029565575
CCDC144NL-AS1	PVT1	0.85931214	0.028297288
CTA-315H11.2	PVT1	0.875769092	0.02219133
PSMD5-AS1	PVT1	-0.830280463	0.04076272
RP11-326C3.2	PVT1	-0.854581365	0.030182316
AP006621.8	PVT1	-0.841662154	0.035621476
AC024028.1	ANXA5	0.830420393	0.040697544
RP11-34P13.14	ANXA5	0.911063899	0.011512719
RP11-680G24.6	ANXA5	0.888128967	0.018072652
AC024028.1	SIGLEC6	0.900117571	0.014466511
RP11-485G7.6	SIGLEC6	0.884835082	0.019130724
RP11-473M20.11	SIGLEC6	0.823542769	0.043958544

LA16c-359F1.1	SIGLEC6	0.899901275	0.01452815
RP11-498J9.2	BZW1P2	0.897371802	0.015258352
RP11-485G7.6	BZW1P2	0.885181845	0.019017977
RP11-118G23.2	BZW1P2	0.882158919	0.020011579
LL21NC02-21A1.1	BZW1P2	-0.813556174	0.048901436
RP11-485G7.6	TMED3	0.860103787	0.027987475
RMRP	TMED3	-0.881866858	0.020108859
RP11-498J9.2	ZEB2	0.837494922	0.037466141
RP11-34P13.14	ZEB2	0.89977246	0.014564919
RP11-93O14.2	ZEB2	0.909380463	0.011945772
RP11-78A19.3	ZEB2	0.897397634	0.015250808
Z69720.3	ZEB2	0.862231936	0.027162637
LL21NC02-21A1.1	ZEB2	-0.821567856	0.044916581
RP11-473M20.11	CTTNBP2	0.906043163	0.012827111
RP11-680G24.6	CTTNBP2	0.866921685	0.025386359
LA16c-359F1.1	CTTNBP2	0.905480861	0.012978591
RP11-473M20.11	CXCL3	0.898880271	0.014820815
RP11-680G24.6	CXCL3	0.862434951	0.027084564
LA16c-359F1.1	CXCL3	0.906520643	0.012699156
CTA-315H11.2	PCNA	0.838376516	0.037072249
CTD-2139B15.2	PCNA	0.914296382	0.010702914
RP11-91K8.5	PCNA	0.878660412	0.021191684
RP11-160E2.19	PCNA	-0.883185752	0.019671354
RP11-66D17.5	VEGFA	-0.8420138	0.03546782
RP3-438O4.4	VEGFA	-0.816817219	0.047260462
BX322559.3	VEGFA	-0.914928316	0.010547947
TOPORS-AS1	VEGFA	-0.828098105	0.041785519
AC005786.7	VEGFA	-0.814129118	0.048611245
CDC37L1-AS1	VEGFA	-0.816001589	0.047668452
LL21NC02-21A1.1	VEGFA	-0.823298605	0.044076467
RP11-770G2.2	UQCRC1	0.811926602	0.049731176
CTD-2139B15.2	PHPT1	0.888863498	0.017840642
RP3-337H4.8	LSM5	0.877389988	0.021628211
MIR210HG	LSM5	0.838204981	0.037148737
RP11-156P1.3	GNA15	0.830873559	0.040486804
CTB-31O20.6	GNA15	0.857096225	0.02917308
CCDC144NL-AS1	UBE2L7P	0.852129283	0.031181971
RP11-156P1.3	UBE2L7P	0.904469516	0.013253201
CTA-315H11.2	UBE2L7P	0.856655135	0.029348918
RP11-126K1.8	UBE2L7P	-0.87741684	0.021618941
NUP50-AS1	UBE2L7P	-0.834836628	0.038665668
PSMD5-AS1	UBE2L7P	-0.903680662	0.013469325
AC087294.2	UBE2L7P	-0.826000124	0.042779929
AP001062.8	UBE2L7P	-0.838922622	0.036829232
RP11-455F5.3	UBE2L7P	-0.841764898	0.035576548
RP11-326C3.2	UBE2L7P	-0.846509707	0.033530845
AP006621.8	UBE2L7P	-0.896461073	0.015525479
JHDM1D-AS1	UBE2L7P	-0.817698795	0.046821319
RP11-20I23.6	UBE2L7P	-0.825543815	0.042997657
RP11-160E2.19	UBE2L7P	-0.849404344	0.032310894
AC005944.2	UBE2L7P	-0.89783718	0.015122714
CTB-191K22.5	UBE2L7P	-0.844819875	0.034252871
RP11-20I23.8	UBE2L7P	-0.826367814	0.042604861
RP5-1142A6.10	UBE2L7P	-0.816059343	0.047639509
RP11-556I13.1	UBE2L7P	-0.817040558	0.04714903
RP11-485G7.6	EIF4A3	0.835573451	0.03833141
RP3-438O4.4	EIF4A3	-0.830509462	0.040656083
RMRP	EIF4A3	-0.859615289	0.028178459
CDC37L1-AS1	EIF4A3	-0.821752848	0.044826432
CTD-2531D15.5	EIF4A1P10	0.819783264	0.045790562
CTB-31O20.6	EIF4A1P10	0.866010963	0.025726836
CTA-315H11.2	EIF4A1P10	0.909804526	0.011835955
RP3-438O4.4	EIF4A1P10	-0.832002314	0.039964116

PSMD5-AS1	EIF4A1P10	-0.830734008	0.040551646
AC087294.2	EIF4A1P10	-0.845554731	0.033937994
AP001062.8	EIF4A1P10	-0.818291173	0.046527307
RP11-455F5.3	EIF4A1P10	-0.855730763	0.029719037
RP11-326C3.2	EIF4A1P10	-0.871001602	0.023887575
AP006621.8	EIF4A1P10	-0.850311151	0.031933107
JHDM1D-AS1	EIF4A1P10	-0.862185387	0.027180554
RP11-20I23.6	EIF4A1P10	-0.839358242	0.036635919
RP11-160E2.19	EIF4A1P10	-0.821645571	0.044878699
RMRP	EIF4A1P10	-0.875520378	0.022278347
RP11-20I23.8	EIF4A1P10	-0.857041714	0.029194783
CDC37L1-AS1	EIF4A1P10	-0.83749691	0.037465251
RP11-556I13.1	EIF4A1P10	-0.862303588	0.02713507
AC024028.1	FSCN1	0.914824795	0.010573258
RP11-473M20.11	FSCN1	0.847446084	0.033133875
RP11-680G24.6	FSCN1	0.83498746	0.038597133
LA16c-359F1.1	FSCN1	0.875789054	0.022184353
RMRP	VAT1	-0.896959955	0.015378875
RP11-473M20.11	CYP1B1	0.890358301	0.017372935
RP11-680G24.6	CYP1B1	0.886255665	0.018670862
LA16c-359F1.1	CYP1B1	0.905368449	0.013008977
LLNLR-284B4.1	TFRC	-0.845304854	0.034044909
CTD-2541M15.3	TFRC	0.856358687	0.029467377
RP11-91K8.5	TFRC	0.861244431	0.027543924
RP11-160E2.19	TFRC	-0.847975652	0.032910356
RP4-784A16.3	AP1S3	0.918171105	0.00976999
RP11-21J18.1	AP1S3	0.966474544	0.001667094
RP11-770G2.2	STMN1	0.883875134	0.019444506
CTB-31O20.6	STMN1	0.830055732	0.040867496
CTA-315H11.2	STMN1	0.904100438	0.013354108
PSMD5-AS1	STMN1	-0.81666069	0.047338634
RP11-326C3.2	STMN1	-0.830341081	0.040734479
AP006621.8	STMN1	-0.832264394	0.03984321
RP11-160E2.19	STMN1	-0.861240088	0.027545606
AC011558.5	STMN1	-0.831186092	0.040341763
AC024028.1	PDLIM5	0.814974649	0.048184457
RP11-498J9.2	PDLIM5	0.902236034	0.013869486
RP11-165D6.1	AP1S3	0.938891845	0.005487215
RP11-66D17.5	AP2S1	0.99130255	0.00011314
RP11-485G7.6	PDLIM5	0.857623227	0.028963648
RP11-118G23.2	PDLIM5	0.841516572	0.035685182
RP11-78A19.3	PDLIM5	0.901800567	0.013991218
RP11-126K1.8	AP2S1	0.963592808	0.001964097
LA16c-359F1.1	PDLIM5	0.909330435	0.011958759
RP3-438O4.4	AP2S1	0.929518827	0.007276333
RP3-337H4.8	NDUFA7	0.866580273	0.025513745
MIR210HG	NDUFA7	0.857818493	0.028886231
CTD-2541M15.3	CD36	0.893208866	0.016497578
RP11-91K8.5	CD36	0.9007132	0.014297425
AC011558.5	CD36	-0.861306518	0.027519877
CTA-315H11.2	NASP	0.883342773	0.019619574
RP11-77G23.2	NASP	0.834540897	0.038800209
CTD-2541M15.3	NASP	0.898733102	0.014863232
NUP50-AS1	NASP	-0.825134536	0.043193384
PSMD5-AS1	NASP	-0.915757773	0.010346206
AC087294.2	NASP	-0.841214416	0.035817573
AP001062.8	NASP	-0.824630314	0.043435084
RP11-455F5.3	NASP	-0.853694996	0.030541891
RP11-326C3.2	NASP	-0.90372985	0.0134558
AP006621.8	NASP	-0.913886232	0.01080408
JHDM1D-AS1	NASP	-0.843963345	0.03462161
RP11-20I23.6	NASP	-0.875952645	0.022127215
NUP50-AS1	AP2S1	0.971812589	0.001180597

AC005786.7	NASP	-0.852753859	0.030925886
AC005944.2	NASP	-0.911755192	0.011337132
CTB-191K22.5	NASP	-0.822495991	0.044465141
RP11-20I23.8	NASP	-0.854053314	0.030396289
RP5-1142A6.10	NASP	-0.89228183	0.016779868
RP11-556I13.1	NASP	-0.843731068	0.034721927
TOPORS-AS1	AP2S1	0.918040054	0.009800869
AC087294.2	AP2S1	0.931503314	0.006877008
AP001062.8	AP2S1	0.956732339	0.002767635
RP11-455F5.3	AP2S1	0.924806786	0.008268457
RP3-337H4.8	ANAPC11	0.862552908	0.02703925
MIR210HG	ANAPC11	0.871504158	0.023705963
CTD-2139B15.2	ANAPC11	0.814943619	0.048200088
CCDC144NL-AS1	ATP5G3	0.895207312	0.01589687
AC005786.7	AP2S1	0.937136249	0.005803563
AC005944.2	AP2S1	0.953185657	0.003236075
CTB-31O20.6	ATP5G3	0.875398292	0.022321121
CTA-315H11.2	ATP5G3	0.821706651	0.044848937
CTD-2139B15.2	ATP5G3	0.892158718	0.01681753
CCDC144NL-AS1	FDPS	0.879080336	0.02104833
CTD-2531D15.5	FDPS	0.813704904	0.048826028
CTA-315H11.2	FDPS	0.837731431	0.037360279
CTD-2139B15.2	FDPS	0.901642447	0.014035547
RP11-160E2.19	FDPS	-0.81445168	0.048448223
AC011558.5	FDPS	-0.839147865	0.036729218
RP11-118G23.2	SCD	0.82432307	0.043582671
CTB-191K22.5	AP2S1	0.978375589	0.000696367
CDC37L1-AS1	AP2S1	0.920434679	0.009244111
LL21NC02-21A1.1	AP2S1	0.967231113	0.001593106
CTA-315H11.2	APBB1	-0.968339579	0.001487705
RP11-126K1.8	APBB1	0.938630564	0.005533746
RP3-438O4.4	APBB1	0.955805942	0.002886514
NUP50-AS1	APBB1	0.950507502	0.003613645
PSMD5-AS1	APBB1	0.988922928	0.000183373
TOPORS-AS1	APBB1	0.95464241	0.003039309
RP11-326C3.2	SCD	-0.897307321	0.015277192
AP006621.8	SCD	-0.906712349	0.012647957
AC087294.2	APBB1	0.976537192	0.000819297
AP001062.8	APBB1	0.960424291	0.002318363
RP11-160E2.19	SCD	-0.858902055	0.028458412
RP11-455F5.3	APBB1	0.982052028	0.000480304
RP11-326C3.2	APBB1	0.999048685	1.36E-06
AP006621.8	APBB1	0.993197935	6.92E-05
JHDM1D-AS1	APBB1	0.98135706	0.000518099
RP11-20I23.6	APBB1	0.988825937	0.000186592
RP11-160E2.19	APBB1	0.988399559	0.000201075
AC005786.7	APBB1	0.972562051	0.001118933
AC005944.2	APBB1	0.962984177	0.002029898
LLNLR-284B4.1	MAT2A	-0.89696129	0.015378484
RP4-784A16.3	MAT2A	0.820630802	0.045374514
CTB-191K22.5	APBB1	0.940771608	0.005158117
CTD-2541M15.3	MAT2A	0.914550625	0.010640435
RP11-160E2.19	MAT2A	-0.846342421	0.033602
AC005944.2	MAT2A	-0.834511797	0.038813459
RP5-1142A6.10	MAT2A	-0.813666578	0.048845455
AC011558.5	MAT2A	-0.875073519	0.022435098
CCDC144NL-AS1	SLC43A3	0.880545301	0.020551863
RP11-20I23.8	APBB1	0.983872954	0.000388025
RP11-66D17.5	SLC43A3	-0.86136999	0.027495304
RP11-126K1.8	SLC43A3	-0.89618674	0.015606382
CDC37L1-AS1	APBB1	0.961229644	0.002225572
RP5-1142A6.10	APBB1	0.985633293	0.000308121
RP11-556I13.1	APBB1	0.981327043	0.000519764

CTA-315H11.2	APBB1IP	-0.948252513	0.003947419
PSMD5-AS1	APBB1IP	0.951188677	0.00351567
AC087294.2	APBB1IP	0.921321473	0.009041944
RP11-455F5.3	APBB1IP	0.930202013	0.007137619
RP11-326C3.2	APBB1IP	0.974727264	0.000949996
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JHDM1D-AS1	APBB1IP	0.931215685	0.006934204
RP11-20I23.6	APBB1IP	0.94941051	0.003774208
RP11-160E2.19	APBB1IP	0.996356184	1.99E-05
AC005786.7	APBB1IP	0.925133725	0.008197627
RP11-20I23.8	APBB1IP	0.935434205	0.006118534
CTB-191K22.5	SLC43A3	-0.907554711	0.012424172
RP5-1142A6.10	APBB1IP	0.955353637	0.00294545
RP11-556I13.1	APBB1IP	0.931252735	0.006926824
AC011558.5	APBB1IP	0.962572725	0.002074987
RP4-784A16.3	API5P1	0.969872967	0.001347785
AC011558.5	SLC43A3	-0.909946906	0.011799194
RP11-77G23.2	API5P1	0.940965055	0.005124815
RP3-337H4.8	APLNR	0.919907785	0.009365258
MIR210HG	APLNR	0.935027614	0.006194979
RP11-91K8.5	APLNR	0.961130448	0.0022369
RP11-77G23.2	APLP2	0.949325968	0.003786724
RP11-473M20.11	NR4A2	0.876158314	0.02205548
CTA-315H11.2	APOBEC3A	-0.956349583	0.002816453
RP11-680G24.6	NR4A2	0.906017231	0.012834078
LA16c-359F1.1	NR4A2	0.917161201	0.010009169
RP11-66D17.5	APOBEC3A	0.941870977	0.004970266
RP11-126K1.8	APOBEC3A	0.971648426	0.001194323
RP3-438O4.4	APOBEC3A	0.984531386	0.000357066
NUP50-AS1	APOBEC3A	0.98062763	0.000559298
PSMD5-AS1	APOBEC3A	0.992126675	9.27E-05
TOPORS-AS1	APOBEC3A	0.973534195	0.001041389
RP11-473M20.11	SERPINE1	0.891936601	0.016885581
AC087294.2	APOBEC3A	0.996440513	1.90E-05
RP11-680G24.6	SERPINE1	0.884192356	0.019340544
LA16c-359F1.1	SERPINE1	0.91580476	0.010334834
AP001062.8	APOBEC3A	0.988293992	0.000204744
AC024028.1	BTK	0.913918966	0.010795989
RP11-455F5.3	APOBEC3A	0.998419183	3.75E-06
RP11-326C3.2	APOBEC3A	0.995167808	3.50E-05
AP006621.8	APOBEC3A	0.993855697	5.65E-05
JHDM1D-AS1	APOBEC3A	0.997638861	8.36E-06
RP11-473M20.11	BTK	0.83880447	0.036881746
RP11-20I23.6	APOBEC3A	0.998073944	5.56E-06
RP11-160E2.19	APOBEC3A	0.961386808	0.002207682
AC005786.7	APOBEC3A	0.989852774	0.000153927
AC005944.2	APOBEC3A	0.974880527	0.000938557
AC024028.1	IGFBP4	0.818813772	0.046268642
CTB-191K22.5	APOBEC3A	0.974265827	0.00098485
RP11-34P13.14	IGFBP4	0.871689089	0.023639299
RP11-20I23.8	APOBEC3A	0.998695481	2.55E-06
CDC37L1-AS1	APOBEC3A	0.987116095	0.000247923
RP5-1142A6.10	APOBEC3A	0.989993619	0.000149691
RP11-680G24.6	IGFBP4	0.850752829	0.031749858
RP11-556I13.1	APOBEC3A	0.997593295	8.68E-06
Z69720.3	IGFBP4	0.902732373	0.013731363
BX322559.3	IGFBP4	-0.817590605	0.04687511
RP11-93O14.2	APOBEC3H	0.936181466	0.005979248
RP11-78A19.3	APOBEC3H	0.944159496	0.004590183
RP11-21J18.1	TPSB2	0.836413214	0.037952111
RP11-298J23.8	TPSB2	0.903716455	0.013459482
RP11-680G24.6	APOBEC3H	0.930863179	0.007004616
CCDC144NL-AS1	TUBA1C	0.876435575	0.02195895

CTB-31O20.6	TUBA1C	0.815219238	0.048061324
CTA-315H11.2	TUBA1C	0.855870222	0.029663057
CTD-2139B15.2	TUBA1C	0.893678352	0.016355494
AC024028.1	C10orf11	0.890303166	0.01739008
LA16c-359F1.1	APOBEC3H	0.987557479	0.000231261
AC024028.1	APOC2	0.95599395	0.002862189
RP11-498J9.2	APOC2	0.998964534	1.61E-06
RP11-485G7.6	C10orf11	0.903687045	0.013467569
RP11-34P13.14	APOC2	0.977656543	0.000743268
RP11-680G24.6	C10orf11	0.865642632	0.02586515
LA16c-359F1.1	C10orf11	0.855911475	0.029646507
RP11-93O14.2	APOC2	0.985385745	0.000318804
RP11-34P13.14	GRAMD4	0.858219189	0.028727673
RP11-93O14.2	GRAMD4	0.882958431	0.019746433
RP11-485G7.6	APOC2	0.967272277	0.001589128
RP11-78A19.3	GRAMD4	0.871158715	0.023830728
RP11-78A19.3	APOC2	0.982552969	0.000453943
Z69720.3	APOC2	0.987988855	0.000215535
Z69720.3	GRAMD4	0.812042803	0.049671795
LL21NC02-21A1.1	GRAMD4	-0.857694131	0.028935525
RP11-498J9.2	ELOVL5	0.832737701	0.039625293
RP11-93O14.2	ELOVL5	0.889947997	0.017500721
RP11-485G7.6	ELOVL5	0.910880888	0.011559423
RP11-118G23.2	ELOVL5	0.817802685	0.046769694
RP11-78A19.3	ELOVL5	0.881763955	0.020143188
RP11-680G24.6	ELOVL5	0.913188459	0.010977249
RP11-770G2.2	APOE	0.93767831	0.005704961
Z69720.3	ELOVL5	0.846401219	0.033576982
BX322559.3	ELOVL5	-0.84348585	0.03482798
LL21NC02-21A1.1	ELOVL5	-0.844663131	0.034320211
RP11-156P1.3	MORF4L2	0.838165764	0.037166235
CTA-315H11.2	MORF4L2	0.841891293	0.035521315
RP11-66D17.5	MORF4L2	-0.885425329	0.018939002
AC011558.5	APOL1	-0.947926487	0.003996874
RP3-438O4.4	MORF4L2	-0.843216576	0.034944613
NUP50-AS1	MORF4L2	-0.91101703	0.011524671
RP11-66D17.5	APOL3	0.934725632	0.006252056
TOPORS-AS1	MORF4L2	-0.835010015	0.038586889
AC087294.2	MORF4L2	-0.886464003	0.01860387
AP001062.8	MORF4L2	-0.904284948	0.013303616
RP11-455F5.3	MORF4L2	-0.894835776	0.016007738
RP11-326C3.2	MORF4L2	-0.884616101	0.019202088
RP11-126K1.8	APOL3	0.970177342	0.001320824
JHDM1D-AS1	MORF4L2	-0.873426296	0.023017441
RP11-20I23.6	MORF4L2	-0.885535796	0.018903223
RP11-160E2.19	MORF4L2	-0.873515764	0.022985629
AC005786.7	MORF4L2	-0.87987597	0.020777992
NUP50-AS1	APOL3	0.936943687	0.005838789
PSMD5-AS1	APOL3	0.920560786	0.009215229
RP11-20I23.8	MORF4L2	-0.881490565	0.020234527
CDC37L1-AS1	MORF4L2	-0.840158498	0.036282039
LL21NC02-21A1.1	MORF4L2	-0.824095924	0.043691933
RP5-1142A6.10	MORF4L2	-0.886334593	0.018645469
RP11-556I13.1	MORF4L2	-0.872848432	0.023223419
RMRP	EBP	-0.901268663	0.014140605
AP001062.8	APOL3	0.934622245	0.006271656
RP11-34P13.14	CCNG1	0.867110741	0.02531595
AC005944.2	APOL3	0.93496419	0.006206945
CTB-191K22.5	APOL3	0.948936866	0.003844593
RP11-473M20.11	AQP3	0.922194383	0.008845065
RP11-680G24.6	CCNG1	0.853529884	0.030609094
RP11-160E2.19	AQP9	0.933230127	0.006538487
Z69720.3	CCNG1	0.914623004	0.010622681

AC011558.5	AQP9	0.978137735	0.000711713
CTA-315H11.2	ARAP3	-0.968814099	0.001443676
RP11-770G2.2	CST3	0.839638452	0.036511824
RP11-126K1.8	ARAP3	0.950308661	0.003642494
CTB-31O20.6	CST3	0.815193214	0.048074419
RMRP	CST3	-0.814278557	0.048535687
CTB-31O20.6	ELANE	0.859753922	0.028124196
RP11-118G23.2	PABPC4	0.83518674	0.038506671
RP3-438O4.4	ARAP3	0.973823223	0.001018867
NUP50-AS1	ARAP3	0.962268421	0.002108649
PSMD5-AS1	ARAP3	0.987796281	0.000222487
TOPORS-AS1	ARAP3	0.965627803	0.001751867
PSMD5-AS1	PABPC4	-0.87861707	0.021206507
TOPORS-AS1	PABPC4	-0.903605804	0.013489922
AC087294.2	ARAP3	0.987655464	0.000227641
AP001062.8	ARAP3	0.972860718	0.001094816
RP11-455F5.3	PABPC4	-0.914357914	0.010687777
RP11-326C3.2	PABPC4	-0.843716441	0.034728249
AP006621.8	PABPC4	-0.867800348	0.025059912
JHDM1D-AS1	PABPC4	-0.907287511	0.012494948
RP11-20I23.6	PABPC4	-0.89153536	0.017008847
AC005786.7	PABPC4	-0.915127364	0.010499362
AC005944.2	PABPC4	-0.904732548	0.013181513
RP11-455F5.3	ARAP3	0.99108421	0.000118883
RMRP	PABPC4	-0.820906175	0.045239716
RP11-20I23.8	PABPC4	-0.905787655	0.012895836
RP11-326C3.2	ARAP3	0.99921378	9.27E-07
AP006621.8	ARAP3	0.99200217	9.57E-05
RP5-1142A6.10	PABPC4	-0.876052171	0.022092487
RP11-556I13.1	PABPC4	-0.907047088	0.012558798
RP11-498J9.2	INSIG1	0.89655735	0.015497135
RP11-34P13.14	INSIG1	0.894210327	0.016195212
JHDM1D-AS1	ARAP3	0.992268351	8.94E-05
RP11-20I23.6	ARAP3	0.994820284	4.02E-05
RP11-118G23.2	INSIG1	0.847892767	0.032945293
RP11-160E2.19	ARAP3	0.975984151	0.000858216
AC005786.7	ARAP3	0.98146405	0.000512188
AC005944.2	ARAP3	0.962754104	0.00205505
Z69720.3	INSIG1	0.906964847	0.012580675
RP3-337H4.8	IMPDH2	0.849943025	0.03208622
MIR210HG	IMPDH2	0.85677408	0.029301452
CTB-191K22.5	ARAP3	0.953756521	0.003158244
RP11-91K8.5	IMPDH2	0.834679187	0.038737268
RP3-337H4.8	CKS2	0.892386816	0.016747784
RP11-20I23.8	ARAP3	0.993431522	6.46E-05
CTD-2139B15.2	CKS2	0.861000255	0.027638591
RP11-91K8.5	CKS2	0.842962294	0.035054921
RP3-337H4.8	H1FO	0.849929628	0.032091799
CDC37L1-AS1	ARAP3	0.979024264	0.000655358
RP11-498J9.2	SIL1	0.914398331	0.010677839
RP11-34P13.14	SIL1	0.89770407	0.01516145
RP11-93O14.2	SIL1	0.914454129	0.010664128
RP11-485G7.6	SIL1	0.916369915	0.010198533
RP11-78A19.3	SIL1	0.889193682	0.017736818
RP11-680G24.6	SIL1	0.849743532	0.032169339
LA16c-359F1.1	SIL1	0.857066714	0.029184828
RP5-1142A6.10	ARAP3	0.987692388	0.000226284
RP11-556I13.1	ARAP3	0.992279238	8.92E-05
CTD-2531D15.5	FADS2	0.840098476	0.036308525
RP11-156P1.3	FADS2	0.832738115	0.039625103
CTB-31O20.6	FADS2	0.871231961	0.023804247
AC024028.1	ARC	0.977812375	0.000732975
RP11-126K1.8	FADS2	-0.896002697	0.01566077

RP3-438O4.4	FADS2	-0.869176329	0.024552737
NUP50-AS1	FADS2	-0.853174306	0.030754058
PSMD5-AS1	FADS2	-0.896148065	0.015617803
TOPORS-AS1	FADS2	-0.822083737	0.044665397
AC087294.2	FADS2	-0.893184838	0.016504866
AP001062.8	FADS2	-0.883678911	0.019508947
RP11-455F5.3	FADS2	-0.904219496	0.013321517
RP11-326C3.2	FADS2	-0.901406543	0.014101807
AP006621.8	FADS2	-0.907214914	0.012514212
JHDM1D-AS1	FADS2	-0.900402818	0.014385416
RP11-20I23.6	FADS2	-0.878373812	0.021289791
RP11-160E2.19	FADS2	-0.845864007	0.033805882
AC005786.7	FADS2	-0.845151354	0.034110666
AC005944.2	FADS2	-0.828868233	0.041423233
CTB-191K22.5	FADS2	-0.845587906	0.033923811
RMRP	FADS2	-0.912439794	0.011164532
RP11-20I23.8	FADS2	-0.89800212	0.01507478
CDC37L1-AS1	FADS2	-0.871717007	0.023629243
RP5-1142A6.10	FADS2	-0.842704155	0.035167069
RP11-556I13.1	FADS2	-0.900242455	0.01443098
RP11-485G7.6	EGFL7	0.849625247	0.03221867
RMRP	EGFL7	-0.893462697	0.016420686
MIR210HG	VDAC3	0.858877119	0.028468223
RP11-91K8.5	VDAC3	0.813372926	0.048994418
BX322559.3	VDAC3	-0.818794959	0.046277942
RP11-498J9.2	ARC	0.998281693	4.43E-06
RP11-34P13.14	ARC	0.977426326	0.000758605
RP11-93O14.2	ARC	0.975085377	0.000923375
RP11-485G7.6	ARC	0.953523368	0.003189919
RP11-473M20.11	ARC	0.93671326	0.005881079
RP11-473M20.11	PRSSL1	0.87385503	0.022865186
RP11-78A19.3	ARC	0.977647229	0.000743885
RP11-680G24.6	PRSSL1	0.837220001	0.037589374
LA16c-359F1.1	PRSSL1	0.883692849	0.019504366
Z69720.3	ARC	0.980507093	0.000566257
CTA-315H11.2	ARG1	-0.950420307	0.003626282
RP11-66D17.5	ARG1	0.9490472	0.00382814
RP11-126K1.8	ARG1	0.975896163	0.00086449
RP3-438O4.4	ARG1	0.990271118	0.000141516
NUP50-AS1	ARG1	0.984127092	0.000375924
RP11-473M20.11	MAFF	0.857063945	0.029185931
PSMD5-AS1	ARG1	0.987624341	0.000228788
RP11-680G24.6	MAFF	0.902935467	0.013675038
TOPORS-AS1	ARG1	0.976587422	0.000815806
AC087294.2	ARG1	0.99875622	2.32E-06
CCDC144NL-AS1	C14orf156	0.83327917	0.03937668
CTA-315H11.2	C14orf156	0.866415406	0.025575368
CTD-2541M15.3	C14orf156	0.870925931	0.023914979
RP11-160E2.19	C14orf156	-0.865530716	0.025907247
AC011558.5	C14orf156	-0.865277958	0.026002439
RP3-337H4.8	PLIN2	0.83820378	0.037149273
AP001062.8	ARG1	0.99199966	9.58E-05
CTD-2139B15.2	PLIN2	0.850021101	0.032053717
RP11-455F5.3	ARG1	0.999657833	1.76E-07
AC011558.5	PLIN2	-0.815421347	0.047959688
RP11-498J9.2	BST2	0.867363344	0.02522202
RP11-34P13.14	BST2	0.857589181	0.028977156
RP11-93O14.2	BST2	0.898308862	0.014985833
RP11-485G7.6	BST2	0.892564369	0.016693589
RP11-78A19.3	BST2	0.868645746	0.024747721
RP11-680G24.6	BST2	0.876587921	0.021905995
LA16c-359F1.1	BST2	0.873888785	0.022853219
Z69720.3	BST2	0.902197544	0.013880225

RP11-326C3.2	ARG1	0.990980077	0.000121672
AP006621.8	ARG1	0.989316504	0.000170596
JHDM1D-AS1	ARG1	0.999489388	3.91E-07
RP11-20I23.6	ARG1	0.997200706	1.17E-05
RP11-160E2.19	ARG1	0.949424258	0.003772174
RP11-473M20.11	CXCL2	0.897864439	0.015114787
AC005786.7	ARG1	0.990875564	0.000124503
RP11-680G24.6	CXCL2	0.872201875	0.023454919
LA16c-359F1.1	CXCL2	0.908530297	0.01216741
AC005944.2	ARG1	0.970602734	0.001283596
RMRP	CAPG	-0.858387954	0.028661015
CTB-191K22.5	ARG1	0.977906266	0.000726807
RP11-20I23.8	ARG1	0.999801511	5.91E-08
CDC37L1-AS1	ARG1	0.991944758	9.71E-05
RP5-1142A6.10	ARG1	0.98717288	0.000245747
RP11-556I13.1	ARG1	0.999455739	4.44E-07
RP11-473M20.11	ROD1	0.870013477	0.024246586
LLNLR-284B4.1	ARHGAP11A	-0.932044273	0.006770062
RP11-680G24.6	ROD1	0.916924188	0.010065708
RP11-77G23.2	ARHGAP11A	0.919931283	0.009359839
AC011558.5	ARHGAP11A	-0.921735833	0.008948225
AC024028.1	GATA2	0.914465342	0.010661373
RP11-118G23.2	ARHGAP18	0.956947601	0.002740365
RP11-680G24.6	ARHGAP18	0.940977776	0.005122629
LA16c-359F1.1	ARHGAP18	0.924966528	0.008233813
LL21NC02-21A1.1	ARHGAP18	-0.933455361	0.006494947
RP11-473M20.11	GATA2	0.839654351	0.036504789
RP11-485G7.6	ARHGAP22	0.950683571	0.003588194
RP3-337H4.8	ARHGAP23	0.939924918	0.005305117
CTD-2139B15.2	ARHGAP23	0.97547256	0.000895015
AC024028.1	ARHGAP24	0.997902059	6.60E-06
RP11-77G23.2	HBA1	0.90847133	0.012182855
RP11-498J9.2	ARHGAP24	0.967717319	0.001546435
RP11-34P13.14	ARHGAP24	0.945708625	0.004341317
RP11-93O14.2	ARHGAP24	0.920363172	0.009260507
RP11-473M20.11	ARHGAP24	0.986444892	0.000274366
RP11-78A19.3	ARHGAP24	0.929851751	0.007208573
Z69720.3	ARHGAP24	0.937000349	0.005828413
RP11-473M20.11	CPA3	0.905044524	0.013096729
CTA-315H11.2	ARHGAP25	-0.952790579	0.003290486
RP11-680G24.6	CPA3	0.863623328	0.026629687
LA16c-359F1.1	CPA3	0.907892103	0.012335082
RP11-326C3.2	ARHGAP25	0.945484312	0.004376931
MIR210HG	RPL7	0.902684876	0.013744552
RP3-337H4.8	HBB	0.891870143	0.016905968
RP11-767C1.1	HBB	0.831760815	0.040075678
MIR210HG	HBB	0.870900398	0.023924228
RP5-1033H22.2	SNRPFP1	0.903292932	0.013576171
AP006621.8	ARHGAP25	0.92305872	0.008652196
RP11-21J18.1	SNRPFP1	0.821394206	0.04500128
RP11-298J23.8	SNRPFP1	0.880030276	0.020725756
RP11-165D6.1	SNRPFP1	0.896965644	0.015377207
RP11-66D17.5	TIMP1	-0.819316898	0.04602025
RMRP	TIMP1	-0.874610904	0.022597928
LL21NC02-21A1.1	TIMP1	-0.838700003	0.036928207
RMRP	LMNA	-0.878461159	0.021259868
AC024028.1	TMEM164	0.887382279	0.018309975
RP11-160E2.19	ARHGAP25	0.97884613	0.000666496
AC011558.5	ARHGAP25	0.961521833	0.002192369
AC024028.1	ARHGAP26	0.9975826	8.76E-06
RP11-485G7.6	TMEM164	0.884303309	0.019304244
RP11-118G23.2	TMEM164	0.812615485	0.049379622
RP11-498J9.2	ARHGAP26	0.976703685	0.000807756

RP11-34P13.14	ARHGAP26	0.958123348	0.002593762
RP11-93O14.2	ARHGAP26	0.936377374	0.005942991
RP11-473M20.11	ARHGAP26	0.980014772	0.000595123
CCDC144NL-AS1	H2AFZ	0.871441444	0.023728591
RP11-78A19.3	ARHGAP26	0.94468434	0.004505105
RP11-66D17.5	H2AFZ	-0.844494529	0.034392714
RP11-126K1.8	H2AFZ	-0.884876175	0.019117346
Z69720.3	ARHGAP26	0.948686657	0.003882033
NUP50-AS1	H2AFZ	-0.900503655	0.014356801
CTA-315H11.2	ARHGAP27	-0.925572161	0.008103108
TOPORS-AS1	H2AFZ	-0.903468634	0.013527702
RP11-326C3.2	ARHGAP27	0.934851547	0.006228226
AP001062.8	H2AFZ	-0.914378862	0.010682626
AP006621.8	ARHGAP27	0.922938752	0.008678842
RP11-160E2.19	ARHGAP27	0.981116839	0.000531494
AC011558.5	ARHGAP27	0.979635388	0.000617853
RP11-160E2.19	ARHGAP30	0.961515435	0.002193094
AC011558.5	ARHGAP30	0.983157369	0.000423122
RP3-339A18.6	ARHGAP32	0.940559838	0.005194694
CTA-315H11.2	ARHGAP4	-0.960972512	0.002254995
RP11-126K1.8	ARHGAP4	0.918800503	0.009622349
CTB-191K22.5	H2AFZ	-0.897322063	0.015272884
RP3-438O4.4	ARHGAP4	0.953650632	0.003172611
NUP50-AS1	ARHGAP4	0.940587465	0.005189915
PSMD5-AS1	ARHGAP4	0.978136412	0.000711799
TOPORS-AS1	ARHGAP4	0.957636776	0.002653951
AC011558.5	H2AFZ	-0.897269257	0.015288318
RP3-337H4.8	FTH1P8	0.887970798	0.0181228
AC087294.2	ARHGAP4	0.970217696	0.001317127
CTD-2139B15.2	FTH1P8	0.849950701	0.032083024
RP11-91K8.5	FTH1P8	0.863121539	0.026821312
CTD-2541M15.3	HBA2	0.880961578	0.020411823
MIR210HG	NDUFS5	0.842382177	0.035307188
AP001062.8	ARHGAP4	0.949775537	0.0037204
RP11-91K8.5	NDUFS5	0.812681778	0.049345853
RP11-498J9.2	SUMO2P1	0.848950509	0.032500754
RP11-34P13.14	SUMO2P1	0.894609812	0.016075348
RP11-93O14.2	SUMO2P1	0.910021299	0.011780009
RP11-485G7.6	SUMO2P1	0.842722921	0.03515891
RP11-455F5.3	ARHGAP4	0.974424535	0.000972792
RP11-78A19.3	SUMO2P1	0.894786365	0.016022511
RP11-326C3.2	ARHGAP4	0.995955887	2.45E-05
AP006621.8	ARHGAP4	0.983163395	0.000422821
Z69720.3	SUMO2P1	0.887634239	0.018229728
LL21NC02-21A1.1	SUMO2P1	-0.833016978	0.039496973
JHDM1D-AS1	ARHGAP4	0.976766739	0.000803406
RP4-784A16.3	SNORD22	0.863239448	0.026776226
RP3-339A18.6	SNORD22	0.893001529	0.016560514
RP11-20I23.6	ARHGAP4	0.98664181	0.00026647
RP11-160E2.19	ARHGAP4	0.99052405	0.000134265
AC005786.7	ARHGAP4	0.971719307	0.001188387
RP11-485G7.6	MIF	0.831593234	0.04015318
RP5-1033H22.2	HMG2L5	0.861038524	0.027623744
RP4-784A16.3	HMG2L5	0.890576858	0.017305051
RP3-339A18.6	HMG2L5	0.830704081	0.040565558
RP11-21J18.1	HMG2L5	0.858626578	0.028566891
RP11-298J23.8	HMG2L5	0.844615286	0.034340778
RP11-165D6.1	HMG2L5	0.878604832	0.021210693
CTA-315H11.2	USMG5	0.830782892	0.040528927
RP11-66D17.5	USMG5	-0.895680426	0.015756227
RP11-126K1.8	USMG5	-0.907243854	0.012506531
RP3-438O4.4	USMG5	-0.907836288	0.012349798
NUP50-AS1	USMG5	-0.887362635	0.018316239

PSMD5-AS1	USMG5	-0.839329873	0.036648494
TOPORS-AS1	USMG5	-0.831071247	0.040395032
AC087294.2	USMG5	-0.891217785	0.017106715
AP001062.8	USMG5	-0.90094676	0.014231384
RP11-455F5.3	USMG5	-0.885478275	0.018921849
RP11-326C3.2	USMG5	-0.824552851	0.043472272
AP006621.8	USMG5	-0.837396529	0.037510224
JHDM1D-AS1	USMG5	-0.888274858	0.018026456
RP11-20I23.6	USMG5	-0.853969939	0.030430139
AC005786.7	USMG5	-0.855596094	0.029773142
AC005944.2	USMG5	-0.829958609	0.040912817
CTB-191K22.5	USMG5	-0.899722369	0.014579229
RMRP	USMG5	-0.870442382	0.024090441
RP11-20I23.8	USMG5	-0.882645111	0.019850139
CDC37L1-AS1	USMG5	-0.911326467	0.011445873
LL21NC02-21A1.1	USMG5	-0.865767818	0.025818102
RP5-1142A6.10	USMG5	-0.813479264	0.048940451
RP11-556I13.1	USMG5	-0.888258453	0.018031648
AC005944.2	ARHGAP4	0.95340113	0.003206588
CTB-191K22.5	ARHGAP4	0.929443635	0.007291679
RP11-20I23.8	ARHGAP4	0.979076028	0.000652138
CDC37L1-AS1	ARHGAP4	0.960579791	0.002300301
RP5-1142A6.10	ARHGAP4	0.986541143	0.000270492
RP11-556I13.1	ARHGAP4	0.976822126	0.000799595
RP11-498J9.2	ARHGAP6	0.976160343	0.000845719
RP11-34P13.14	ARHGAP6	0.987855631	0.000220333
RP11-93O14.2	ARHGAP6	0.987063219	0.000249958
RP11-485G7.6	ARHGAP6	0.934151757	0.006361228
RP11-78A19.3	ARHGAP6	0.97521511	0.000913824
RP11-680G24.6	ARHGAP6	0.926219082	0.007964618
RP11-473M20.11	MYO10	0.850571195	0.031825156
LA16c-359F1.1	ARHGAP6	0.930419859	0.007093662
RP11-680G24.6	MYO10	0.875770785	0.022190739
LA16c-359F1.1	MYO10	0.905115031	0.013077604
Z69720.3	ARHGAP6	0.986204034	0.00028418
RP11-66D17.5	ARHGAP8	0.979252606	0.000641216
RP11-126K1.8	ARHGAP8	0.997432785	9.88E-06
RP3-438O4.4	ARHGAP8	0.972768605	0.001102227
NUP50-AS1	ARHGAP8	0.994339977	4.80E-05
PSMD5-AS1	ARHGAP8	0.981199415	0.00052687
TOPORS-AS1	ARHGAP8	0.950845761	0.003564827
AC087294.2	ARHGAP8	0.985114823	0.000330704
AP001062.8	ARHGAP8	0.994508661	4.51E-05
RP11-455F5.3	ARHGAP8	0.985179841	0.000327828
RP11-326C3.2	ARHGAP8	0.95685842	0.002751646
AP006621.8	ARHGAP8	0.975670482	0.000880688
JHDM1D-AS1	ARHGAP8	0.977511472	0.000752914
RP11-473M20.11	ARHGEF25	0.912921988	0.011043732
RP11-20I23.6	ARHGAP8	0.974069692	0.000999854
RP11-680G24.6	ARHGEF25	0.853606464	0.030577916
LA16c-359F1.1	ARHGEF25	0.904453132	0.013257673
AC005786.7	ARHGAP8	0.975781768	0.000872682
AC005944.2	ARHGAP8	0.985524736	0.000312783
CTB-191K22.5	ARHGAP8	0.996574621	1.76E-05
RP11-20I23.8	ARHGAP8	0.979335645	0.000636111
CDC37L1-AS1	ARHGAP8	0.970740005	0.001271695
RP5-1142A6.10	ARHGAP8	0.963442187	0.001980281
RP11-473M20.11	SLC22A15	0.901543011	0.014063458
RP11-556I13.1	ARHGAP8	0.977272904	0.000768912
RP11-680G24.6	SLC22A15	0.862473725	0.027069665
LA16c-359F1.1	SLC22A15	0.909206304	0.011991014
CTA-315H11.2	ARHGAP9	-0.953987111	0.00312707
PSMD5-AS1	ARHGAP9	0.954625115	0.003041609

AC087294.2	ARHGAP9	0.918035042	0.009802051
RP11-455F5.3	ARHGAP9	0.928157704	0.007556573
RP11-326C3.2	ARHGAP9	0.973210588	0.001066896
AP006621.8	ARHGAP9	0.961749818	0.002166633
RP11-473M20.11	EBF1	0.914673258	0.010610362
JHDM1D-AS1	ARHGAP9	0.927496728	0.007694522
RP11-680G24.6	EBF1	0.848926379	0.032510864
LA16c-359F1.1	EBF1	0.898846162	0.01483064
RP11-20I23.6	ARHGAP9	0.945558458	0.004365143
RP11-160E2.19	ARHGAP9	0.99720248	1.17E-05
AC005786.7	ARHGAP9	0.919169992	0.009536184
AC005944.2	ARHGAP9	0.919837618	0.009381449
RP11-20I23.8	ARHGAP9	0.932246788	0.006730236
RP5-1142A6.10	ARHGAP9	0.950238859	0.003652648
RP11-473M20.11	BMP6	0.909402723	0.011939995
RP11-556I13.1	ARHGAP9	0.927487652	0.007696424
RP11-680G24.6	BMP6	0.859809024	0.028102642
LA16c-359F1.1	BMP6	0.90782585	0.012352552
AC011558.5	ARHGAP9	0.961322303	0.002215016
AC024028.1	CDK14	0.88671592	0.018523021
RP11-326C3.2	ARHGDIB	0.919887094	0.009370031
RP11-34P13.14	CDK14	0.895234618	0.015888737
RP11-160E2.19	ARHGDIB	0.973451136	0.001047907
AC011558.5	ARHGDIB	0.990781692	0.000127074
RP11-473M20.11	CDK14	0.828998477	0.041362109
CTA-315H11.2	ARHGEF1	-0.964492284	0.001868813
LA16c-359F1.1	CDK14	0.840214951	0.036257136
Z69720.3	CDK14	0.91543321	0.010424921
RP11-498J9.2	CFB	0.898173324	0.015025104
RP11-34P13.14	CFB	0.842567032	0.03522671
RP11-93O14.2	CFB	0.858150613	0.028754779
RP11-126K1.8	ARHGEF1	0.9292297	0.007335429
RP11-78A19.3	CFB	0.846231409	0.033649257
RP3-438O4.4	ARHGEF1	0.958355905	0.002565236
NUP50-AS1	ARHGEF1	0.947107712	0.004122406
PSMD5-AS1	ARHGEF1	0.982883706	0.000436944
TOPORS-AS1	ARHGEF1	0.959772576	0.00239482
AC087294.2	ARHGEF1	0.975479817	0.000894488
AP001062.8	ARHGEF1	0.956827117	0.002755612
RP11-473M20.11	ALDH8A1	0.887933337	0.018134686
RP11-455F5.3	ARHGEF1	0.979901343	0.000601875
RP11-680G24.6	ALDH8A1	0.876825974	0.021823373
RP11-326C3.2	ARHGEF1	0.998396808	3.85E-06
AP006621.8	ARHGEF1	0.987776973	0.000223191
JHDM1D-AS1	ARHGEF1	0.981373901	0.000517166
RP11-20I23.6	ARHGEF1	0.989497061	0.000164888
RP11-160E2.19	ARHGEF1	0.9886274	0.000193269
AC005786.7	ARHGEF1	0.974447903	0.000971023
AC005944.2	ARHGEF1	0.957183682	0.002710609
RP11-473M20.11	HMHB1	0.914673258	0.010610362
CTB-191K22.5	ARHGEF1	0.93630124	0.005957068
RP11-680G24.6	HMHB1	0.848926379	0.032510864
LA16c-359F1.1	HMHB1	0.898846162	0.01483064
RP11-20I23.8	ARHGEF1	0.983503491	0.000405958
CDC37L1-AS1	ARHGEF1	0.964437034	0.001874598
RP5-1142A6.10	ARHGEF1	0.987602546	0.000229593
RP11-556I13.1	ARHGEF1	0.981403141	0.000515549
CTA-315H11.2	ARHGEF11	-0.947176946	0.004111717
RP11-326C3.2	ARHGEF11	0.948343168	0.003933721
RP11-473M20.11	TEK	0.912062035	0.011259613
AP006621.8	ARHGEF11	0.917456476	0.009938948
RP11-680G24.6	TEK	0.847058207	0.033298043
LA16c-359F1.1	TEK	0.898921133	0.014809048

JHDM1D-AS1	ARHGEF11	0.923514457	0.008551336
RP11-20I23.6	ARHGEF11	0.929739089	0.007231469
RP11-160E2.19	ARHGEF11	0.952980822	0.00326423
RP11-20I23.8	ARHGEF11	0.923637161	0.008524278
RP5-1142A6.10	ARHGEF11	0.924305492	0.008377636
RP11-556I13.1	ARHGEF11	0.923821868	0.008483627
RP11-473M20.11	CLCNKB	0.884833281	0.01913131
AC024028.1	ARHGEF17	0.963400197	0.001984805
RP11-680G24.6	CLCNKB	0.860866702	0.027690436
LA16c-359F1.1	CLCNKB	0.898847906	0.014830138
RP11-498J9.2	ARHGEF17	0.999977757	7.42E-10
RP11-34P13.14	ARHGEF17	0.978040038	0.000718065
RP11-93O14.2	ARHGEF17	0.983274904	0.000417254
RP11-485G7.6	ARHGEF17	0.965988776	0.001715474
RP11-78A19.3	ARHGEF17	0.983185547	0.000421712
Z69720.3	ARHGEF17	0.986493051	0.000272424
RP11-473M20.11	CNTNAP4	0.913182852	0.010978646
AC024028.1	ARHGEF25	0.962897908	0.002039311
RP11-680G24.6	CNTNAP4	0.8533335	0.030689117
LA16c-359F1.1	CNTNAP4	0.902303984	0.013850537
RP11-498J9.2	ARHGEF25	0.999869574	2.55E-08
RP11-34P13.14	ARHGEF25	0.978708808	0.000675147
RP11-93O14.2	ARHGEF25	0.985068899	0.000332742
RP11-485G7.6	ARHGEF25	0.966851355	0.001630037
RP11-78A19.3	ARHGEF25	0.985919766	0.000295984
Z69720.3	ARHGEF25	0.985388194	0.000318697
RP11-473M20.11	TNS4	0.904515274	0.013240716
RP11-160E2.19	ARHGEF3	0.952593412	0.003317806
RP11-680G24.6	TNS4	0.860107903	0.027985868
LA16c-359F1.1	TNS4	0.899343051	0.014687813
AC011558.5	ARHGEF3	0.952935195	0.003270517
RP11-66D17.5	ARHGEF37	0.919286609	0.009509067
RP11-126K1.8	ARHGEF37	0.960473451	0.002312645
RP3-438O4.4	ARHGEF37	0.925810971	0.008051849
NUP50-AS1	ARHGEF37	0.931704454	0.006837148
AC087294.2	ARHGEF37	0.926856808	0.007829235
RP11-473M20.11	TMEM191C	0.8794853	0.020910524
AP001062.8	ARHGEF37	0.942572631	0.004852159
LA16c-359F1.1	TMEM191C	0.876520745	0.021929338
RP11-455F5.3	ARHGEF37	0.925656451	0.008084998
JHDM1D-AS1	ARHGEF37	0.919313263	0.009502875
CTB-191K22.5	ARHGEF37	0.92959772	0.007260248
RMRP	ARHGEF37	0.944839023	0.00448018
RP11-556I13.1	ARHGEF37	0.919079893	0.009557161
CTA-315H11.2	ARHGEF4	-0.950045501	0.003680848
RP11-473M20.11	EFS	0.910413628	0.01167908
RP11-66D17.5	ARHGEF4	0.954983588	0.002994104
RP11-680G24.6	EFS	0.856487443	0.029415899
LA16c-359F1.1	EFS	0.908937482	0.012061011
RP11-126K1.8	ARHGEF4	0.983095181	0.000426244
RP3-438O4.4	ARHGEF4	0.978627393	0.000680301
NUP50-AS1	ARHGEF4	0.986727091	0.000263086
PSMD5-AS1	ARHGEF4	0.996409105	1.93E-05
TOPORS-AS1	ARHGEF4	0.962129423	0.002124114
AC087294.2	ARHGEF4	0.993797139	5.76E-05
RP11-473M20.11	MN1	0.913400434	0.010924501
AP001062.8	ARHGEF4	0.991594993	0.000105669
RP11-680G24.6	MN1	0.850083857	0.032027604
LA16c-359F1.1	MN1	0.899945728	0.014515472
RP11-455F5.3	ARHGEF4	0.996051762	2.34E-05
RP11-326C3.2	ARHGEF4	0.986860776	0.000257825
AP006621.8	ARHGEF4	0.995018629	3.72E-05
JHDM1D-AS1	ARHGEF4	0.991972609	9.64E-05

RP11-20I23.6	ARHGEF4	0.992494879	8.43E-05
RP11-160E2.19	ARHGEF4	0.952486642	0.003332648
RP11-473M20.11	LIPC	0.914673258	0.010610362
AC005786.7	ARHGEF4	0.98598784	0.000293135
RP11-680G24.6	LIPC	0.848926379	0.032510864
LA16c-359F1.1	LIPC	0.898846162	0.01483064
AC005944.2	ARHGEF4	0.98803031	0.000214053
CTB-191K22.5	ARHGEF4	0.985040856	0.00033399
RP11-20I23.8	ARHGEF4	0.993992389	5.40E-05
CDC37L1-AS1	ARHGEF4	0.981063411	0.000534496
RP5-1142A6.10	ARHGEF4	0.983877684	0.000387798
RP11-556I13.1	ARHGEF4	0.991836748	9.97E-05
RP11-473M20.11	S1PR5	0.914673258	0.010610362
AC024028.1	ARHGEF6	0.952992858	0.003262572
RP11-680G24.6	S1PR5	0.848926379	0.032510864
LA16c-359F1.1	S1PR5	0.898846162	0.01483064
RP11-498J9.2	ARHGEF6	0.962914492	0.0020375
RP11-34P13.14	ARHGEF6	0.995538296	2.98E-05
RP11-93O14.2	ARHGEF6	0.958415813	0.002557912
RP11-78A19.3	ARHGEF6	0.949354515	0.003782496
Z69720.3	ARHGEF6	0.971888984	0.001174237
AC024028.1	ARID5A	0.92168591	0.008959491
RP11-473M20.11	ARID5A	0.97019403	0.001319354
CTA-315H11.2	ARIH2	-0.97818039	0.000708949
AC024028.1	CPB1	0.899433156	0.014661984
RP11-126K1.8	ARIH2	0.961019168	0.002249642
RP3-438O4.4	ARIH2	0.949021887	0.003831912
NUP50-AS1	ARIH2	0.943912286	0.004630526
PSMD5-AS1	ARIH2	0.972335315	0.001137416
RP11-473M20.11	CPB1	0.828730567	0.041487886
AC087294.2	ARIH2	0.966278096	0.001686576
RP11-680G24.6	CPB1	0.852817133	0.030899998
LA16c-359F1.1	CPB1	0.888452927	0.017970148
AP001062.8	ARIH2	0.960437826	0.002316788
RP11-455F5.3	ARIH2	0.971916662	0.001171937
RP11-326C3.2	ARIH2	0.963122052	0.002014898
AP006621.8	ARIH2	0.974403275	0.000974403
JHDM1D-AS1	ARIH2	0.96916577	0.001411467
RP11-20I23.6	ARIH2	0.957611098	0.002657146
RP11-473M20.11	SCAMP5	0.890322731	0.017383995
RP11-160E2.19	ARIH2	0.921946103	0.008900848
RP11-680G24.6	SCAMP5	0.819947324	0.045709888
LA16c-359F1.1	SCAMP5	0.87908615	0.021046349
AC005786.7	ARIH2	0.93788747	0.005667135
AC005944.2	ARIH2	0.945112933	0.004436209
CTB-191K22.5	ARIH2	0.947938669	0.00399502
RP11-20I23.8	ARIH2	0.969464324	0.001384405
CDC37L1-AS1	ARIH2	0.957730069	0.002642358
RP5-1142A6.10	ARIH2	0.932614512	0.006658214
RP11-556I13.1	ARIH2	0.969040445	0.001422904
RP11-66D17.5	ARL1	-0.963622755	0.001960887
RP11-126K1.8	ARL1	-0.967005025	0.001615042
RP3-438O4.4	ARL1	-0.937943236	0.005657071
NUP50-AS1	ARL1	-0.977476472	0.000755251
PSMD5-AS1	ARL1	-0.974657981	0.000955189
TOPORS-AS1	ARL1	-0.936895246	0.005847667
RP11-473M20.11	KIRREL3	0.914673258	0.010610362
AC087294.2	ARL1	-0.958393023	0.002560697
RP11-680G24.6	KIRREL3	0.848926379	0.032510864
LA16c-359F1.1	KIRREL3	0.898846162	0.01483064
AP001062.8	ARL1	-0.968344426	0.001487252
RP11-455F5.3	ARL1	-0.95908961	0.002476255
RP11-326C3.2	ARL1	-0.943183605	0.00475045

AP006621.8	ARL1	-0.965264927	0.001788834
JHDM1D-AS1	ARL1	-0.948247834	0.003948126
RP11-20I23.6	ARL1	-0.959648195	0.002409551
RP11-473M20.11	ADRA2B	0.914673258	0.010610362
RP11-160E2.19	ARL1	-0.91981972	0.009385581
RP11-680G24.6	ADRA2B	0.848926379	0.032510864
LA16c-359F1.1	ADRA2B	0.898846162	0.01483064
AC005786.7	ARL1	-0.965148437	0.001800781
AC005944.2	ARL1	-0.996509778	1.83E-05
CTB-191K22.5	ARL1	-0.979989681	0.000596613
RP11-20I23.8	ARL1	-0.953606335	0.00317863
CDC37L1-AS1	ARL1	-0.936209395	0.005974072
RP5-1142A6.10	ARL1	-0.963937608	0.001927295
RP11-473M20.11	SPIB	0.901924523	0.013956515
RP11-556I13.1	ARL1	-0.947950026	0.003993293
RP11-680G24.6	SPIB	0.853250037	0.030723157
LA16c-359F1.1	SPIB	0.90765271	0.012398263
AC011558.5	ARMC9	-0.938012677	0.005644551
RP11-473M20.11	ARMCX2	0.943150143	0.004755993
RP11-680G24.6	ARNTL2	0.934829249	0.006232443
RP11-66D17.5	ARPC1B	0.973729637	0.001026133
RP11-126K1.8	ARPC1B	0.96362934	0.001960181
RP3-438O4.4	ARPC1B	0.989222788	0.000173597
NUP50-AS1	ARPC1B	0.990945703	0.000122599
PSMD5-AS1	ARPC1B	0.96757337	0.001560181
TOPORS-AS1	ARPC1B	0.993836156	5.69E-05
AC087294.2	ARPC1B	0.989451628	0.000166315
AP001062.8	ARPC1B	0.987754777	0.000224
RP11-455F5.3	ARPC1B	0.985284761	0.000323214
RP11-326C3.2	ARPC1B	0.968526548	0.001470279
AP006621.8	ARPC1B	0.964918154	0.001824516
JHDM1D-AS1	ARPC1B	0.985550954	0.000311654
RP11-20I23.6	ARPC1B	0.990344158	0.000139403
RP11-160E2.19	ARPC1B	0.926575476	0.007888819
AC005786.7	ARPC1B	0.998854032	1.97E-06
AC005944.2	ARPC1B	0.973163493	0.001070633
CTB-191K22.5	ARPC1B	0.983721799	0.000395313
RP11-20I23.8	ARPC1B	0.986573871	0.000269181
CDC37L1-AS1	ARPC1B	0.98681043	0.0002598
RP5-1142A6.10	ARPC1B	0.991820739	0.000100077
RP11-556I13.1	ARPC1B	0.985542973	0.000311998
RP11-473M20.11	SLC29A4	0.896890894	0.01539913
CCDC144NL-AS1	ARRDC3	-0.959064642	0.002479257
RP11-680G24.6	SLC29A4	0.852002838	0.031233937
LA16c-359F1.1	SLC29A4	0.901888709	0.013966537
CTA-315H11.2	ARRDC3	-0.958210854	0.00258301
RP3-337H4.8	LMO7	-0.831090701	0.040386006
PSMD5-AS1	ARRDC3	0.945329262	0.004401632
RP11-91K8.5	LMO7	-0.81747204	0.046934092
RP5-1033H22.2	ARHGAP32	0.876373503	0.021980543
RP11-326C3.2	ARRDC3	0.950103547	0.003672371
RP11-298J23.8	ARHGAP32	0.846239963	0.033645615
RP11-165D6.1	ARHGAP32	0.86122344	0.027552056
AP006621.8	ARRDC3	0.953150409	0.003240912
RP11-160E2.19	ARRDC3	0.966592307	0.001655468
RP11-93O14.2	ARRDC4	0.951102966	0.003527925
RP11-485G7.6	ARRDC4	0.936014103	0.006010307
RP11-78A19.3	ARRDC4	0.960614237	0.002296309
RP11-473M20.11	RUNDC2C	0.90627435	0.01276508
RP11-680G24.6	ARRDC4	0.925060206	0.008213529
RP11-680G24.6	RUNDC2C	0.837580156	0.037427974
LA16c-359F1.1	RUNDC2C	0.893502193	0.016408737
LA16c-359F1.1	ARRDC4	0.98851511	0.000197097

RP11-498J9.2	TFEC	0.886451301	0.018607952
RP11-93O14.2	TFEC	0.864352851	0.02635226
RP11-91K8.5	ARV1	0.943420311	0.004711329
RP11-78A19.3	TFEC	0.852390379	0.031074797
Z69720.3	TFEC	0.855939911	0.029635102
CTA-315H11.2	ASAP3	-0.947438613	0.004071443
RP11-66D17.5	ASAP3	0.949807725	0.003715673
RP11-126K1.8	ASAP3	0.972263821	0.001143275
RP3-438O4.4	ASAP3	0.993582533	6.16E-05
NUP50-AS1	ASAP3	0.982875744	0.000437349
RP11-473M20.11	CPE	0.899874073	0.014535911
PSMD5-AS1	ASAP3	0.982193373	0.000472791
RP11-680G24.6	CPE	0.867800683	0.025059788
TOPORS-AS1	ASAP3	0.97873017	0.000673797
AC087294.2	ASAP3	0.998663103	2.68E-06
AP001062.8	ASAP3	0.991027005	0.000120411
RP11-455F5.3	ASAP3	0.998587331	2.99E-06
RP11-326C3.2	ASAP3	0.988344633	0.00020298
AP006621.8	ASAP3	0.984208738	0.000372077
JHDM1D-AS1	ASAP3	0.999920396	9.51E-09
RP11-473M20.11	LEPREL4	0.867617904	0.025127529
RP11-20I23.6	ASAP3	0.996454322	1.88E-05
RP11-680G24.6	LEPREL4	0.846083746	0.033712165
LA16c-359F1.1	LEPREL4	0.889755044	0.01756097
RP11-160E2.19	ASAP3	0.943926789	0.004628155
AC005786.7	ASAP3	0.991203775	0.00011572
AC005944.2	ASAP3	0.965210182	0.001794444
CTB-191K22.5	ASAP3	0.976601495	0.00081483
RP11-20I23.8	ASAP3	0.999676809	1.57E-07
CDC37L1-AS1	ASAP3	0.995616682	2.88E-05
RP11-473M20.11	TBC1D9	0.895594297	0.015781786
RP5-1142A6.10	ASAP3	0.98573137	0.000303938
RP11-680G24.6	TBC1D9	0.825923506	0.042816451
LA16c-359F1.1	TBC1D9	0.8858425	0.018804056
RP11-556I13.1	ASAP3	0.99992469	8.51E-09
CTA-315H11.2	ASB2	-0.946468699	0.004221701
PSMD5-AS1	ASB2	0.950900955	0.003556892
RP11-455F5.3	ASB2	0.919922845	0.009361785
RP11-326C3.2	ASB2	0.96712652	0.001603236
AP006621.8	ASB2	0.957550544	0.002664688
JHDM1D-AS1	ASB2	0.917949946	0.009822128
RP11-20I23.6	ASB2	0.938006718	0.005645625
RP11-160E2.19	ASB2	0.995463019	3.08E-05
AC005944.2	ASB2	0.917328447	0.009969366
RP11-20I23.8	ASB2	0.923345275	0.008588711
RP5-1142A6.10	ASB2	0.944451351	0.004542777
RP11-556I13.1	ASB2	0.917909691	0.009831632
RP11-473M20.11	FCRL2	0.91428108	0.01070668
AC011558.5	ASB2	0.964908949	0.001825468
RP11-680G24.6	FCRL2	0.848124882	0.032847498
LA16c-359F1.1	FCRL2	0.89829299	0.014990429
CTA-315H11.2	ASCC2	-0.94164567	0.005008487
RP11-66D17.5	ASCC2	0.958079316	0.002599181
RP11-126K1.8	ASCC2	0.979208076	0.000643962
RP3-438O4.4	ASCC2	0.994264121	4.93E-05
NUP50-AS1	ASCC2	0.988032244	0.000213984
PSMD5-AS1	ASCC2	0.983539797	0.000404178
TOPORS-AS1	ASCC2	0.978848322	0.000666359
AC087294.2	ASCC2	0.999757385	8.83E-08
AP001062.8	ASCC2	0.994908335	3.88E-05
RP11-455F5.3	ASCC2	0.999453559	4.48E-07
RP11-326C3.2	ASCC2	0.985561355	0.000311207
AP006621.8	ASCC2	0.984478835	0.00035949

JHDM1D-AS1	ASCC2	0.999549929	3.04E-07
RP11-473M20.11	PLEKHG1	0.882709665	0.019828751
RP11-20I23.6	ASCC2	0.995784819	2.66E-05
RP11-680G24.6	PLEKHG1	0.874243603	0.022727609
RP11-160E2.19	ASCC2	0.93844486	0.005566936
AC005786.7	ASCC2	0.992147757	9.22E-05
AC005944.2	ASCC2	0.96967742	0.001365248
CTB-191K22.5	ASCC2	0.982637905	0.000449547
RP11-20I23.8	ASCC2	0.999474317	4.14E-07
CDC37L1-AS1	ASCC2	0.995234306	3.40E-05
RP5-1142A6.10	ASCC2	0.985048629	0.000333644
RP11-473M20.11	SEPT7L	0.914673258	0.010610362
RP11-556I13.1	ASCC2	0.999520608	3.45E-07
RP11-680G24.6	SEPT7L	0.848926379	0.032510864
LA16c-359F1.1	SEPT7L	0.898846162	0.01483064
CTD-2139B15.2	ASF1B	0.945101483	0.004438043
AC024028.1	ASGR2	0.919098243	0.009552887
RP11-498J9.2	ASGR2	0.980742527	0.000552705
RP11-34P13.14	ASGR2	0.926660318	0.007870827
RP11-93O14.2	ASGR2	0.952567854	0.003321356
RP11-485G7.6	ASGR2	0.983095495	0.000426228
RP11-78A19.3	ASGR2	0.95139829	0.003485788
Z69720.3	ASGR2	0.967033898	0.001612233
CTD-2139B15.2	SPOCK3	-0.814494198	0.048426754
RP3-337H4.8	ASNS	0.936388628	0.005940911
MIR210HG	ASNS	0.926739771	0.007853996
RP11-77G23.2	ATAD2	0.928038071	0.007581451
CTD-2541M15.3	ATAD2	0.931885494	0.006801367
CTD-2541M15.3	ATAD5	0.950771407	0.00357553
RP11-498J9.2	ATF3	0.962547895	0.002077724
RP11-34P13.14	ATF3	0.930464461	0.007084678
RP11-93O14.2	ATF3	0.961368334	0.002209781
RP11-485G7.6	ATF3	0.981780074	0.000494924
RP11-78A19.3	ATF3	0.960635416	0.002293857
LA16c-359F1.1	ATF3	0.944603396	0.004518175
Z69720.3	ATF3	0.966826917	0.001632427
RP11-473M20.11	NRG1	0.914673258	0.010610362
RP3-337H4.8	ATG4A	0.959537688	0.002422676
RP11-680G24.6	NRG1	0.848926379	0.032510864
LA16c-359F1.1	NRG1	0.898846162	0.01483064
RP11-66D17.5	ATG9A	0.954061121	0.003117097
RP11-126K1.8	ATG9A	0.97899199	0.000657369
RP3-438O4.4	ATG9A	0.920973289	0.009121062
NUP50-AS1	ATG9A	0.957255669	0.002701568
AC087294.2	ATG9A	0.932012928	0.006776237
AP001062.8	ATG9A	0.956032994	0.00285715
RP11-455F5.3	ATG9A	0.931106166	0.006956043
JHDM1D-AS1	ATG9A	0.91798127	0.009814735
AC005944.2	ATG9A	0.922827747	0.008703533
CTB-191K22.5	ATG9A	0.958990474	0.002488187
RP11-20I23.8	ATG9A	0.918455137	0.009703228
RP11-556I13.1	ATG9A	0.917587502	0.009907864
CTA-315H11.2	ATHL1	-0.961604225	0.002183051
RP11-473M20.11	HIC1	0.909170537	0.012000316
RP11-66D17.5	ATHL1	0.928477821	0.0074902
RP11-680G24.6	HIC1	0.864057191	0.026464529
LA16c-359F1.1	HIC1	0.910080744	0.011764689
RP11-126K1.8	ATHL1	0.961548433	0.002189359
RP3-438O4.4	ATHL1	0.980699892	0.000555147
NUP50-AS1	ATHL1	0.97239212	0.001132771
PSMD5-AS1	ATHL1	0.989824223	0.000154793
TOPORS-AS1	ATHL1	0.972169435	0.001151033
AC087294.2	ATHL1	0.993144575	7.03E-05

AP001062.8	ATHL1	0.981573341	0.000506184
RP11-455F5.3	ATHL1	0.995721276	2.74E-05
RP11-326C3.2	ATHL1	0.997990073	6.06E-06
AP006621.8	ATHL1	0.993009307	7.31E-05
JHDM1D-AS1	ATHL1	0.996074062	2.31E-05
RP11-20I23.6	ATHL1	0.997484116	9.49E-06
RP11-160E2.19	ATHL1	0.968594193	0.001463999
RP11-473M20.11	VWA1	0.8907685	0.017245632
AC005786.7	ATHL1	0.986978571	0.000253232
RP11-680G24.6	VWA1	0.880131928	0.020691378
LA16c-359F1.1	VWA1	0.903453059	0.013531996
AC005944.2	ATHL1	0.96806719	0.001513276
CTB-191K22.5	ATHL1	0.96428799	0.001890249
RP11-20I23.8	ATHL1	0.997065072	1.29E-05
CDC37L1-AS1	ATHL1	0.984155383	0.000374589
RP5-1142A6.10	ATHL1	0.990043668	0.000148199
RP11-556I13.1	ATHL1	0.996061106	2.32E-05
RP11-473M20.11	MMP15	0.895015946	0.015953928
CTD-2531D15.5	ATIC	0.930164464	0.007145209
RP11-680G24.6	MMP15	0.839008676	0.036791006
LA16c-359F1.1	MMP15	0.8861481	0.018705494
RP11-770G2.2	ATIC	0.94479083	0.004487938
CTA-315H11.2	ATM	-0.971829051	0.001179225
RP3-438O4.4	ATM	0.95973123	0.002399711
NUP50-AS1	ATM	0.920037234	0.009335423
PSMD5-AS1	ATM	0.946844745	0.004163127
RP11-485G7.6	C20orf117	0.889362463	0.017683858
RP11-473M20.11	C20orf117	0.90027417	0.014421963
TOPORS-AS1	ATM	0.936083325	0.005997451
RP11-680G24.6	C20orf117	0.877225447	0.02168506
LA16c-359F1.1	C20orf117	0.869345763	0.024490626
AC087294.2	ATM	0.963793336	0.001942652
AC024028.1	PDGFRB	0.903384629	0.013550865
AP001062.8	ATM	0.940307856	0.005238382
RP11-455F5.3	ATM	0.966580891	0.001656593
RP11-326C3.2	ATM	0.97556216	0.000888515
AP006621.8	ATM	0.956466874	0.002801449
RP11-473M20.11	PDGFRB	0.833673688	0.039196001
JHDM1D-AS1	ATM	0.974706133	0.000951578
RP11-20I23.6	ATM	0.967143713	0.001601569
RP11-160E2.19	ATM	0.941247891	0.005076315
AC005786.7	ATM	0.947579456	0.004049847
RP11-20I23.8	ATM	0.972665065	0.001110586
CDC37L1-AS1	ATM	0.968999037	0.001426693
RP5-1142A6.10	ATM	0.949341907	0.003784363
RP11-556I13.1	ATM	0.974884903	0.000938231
CTA-315H11.2	ATP10A	-0.967484326	0.001568715
RP11-473M20.11	TM4SF1	0.902141451	0.013895882
RP3-438O4.4	ATP10A	0.91991419	0.009363781
RP11-680G24.6	TM4SF1	0.850947805	0.031669122
LA16c-359F1.1	TM4SF1	0.90920014	0.011992617
PSMD5-AS1	ATP10A	0.974158931	0.000993013
TOPORS-AS1	ATP10A	0.925177504	0.008188165
AC087294.2	ATP10A	0.947899126	0.004001038
AP001062.8	ATP10A	0.925814095	0.00805118
RP11-455F5.3	ATP10A	0.956399484	0.002810065
RP11-326C3.2	ATP10A	0.989142955	0.000176173
RP11-473M20.11	FBLN1	0.899753505	0.014570333
AP006621.8	ATP10A	0.980437046	0.00057032
RP11-680G24.6	FBLN1	0.844577492	0.034357029
LA16c-359F1.1	FBLN1	0.892548133	0.016698541
JHDM1D-AS1	ATP10A	0.95557784	0.002916163
RP11-20I23.6	ATP10A	0.968074278	0.001512607

RP11-160E2.19	ATP10A	0.996751488	1.58E-05
AC005786.7	ATP10A	0.945018709	0.004451311
AC005944.2	ATP10A	0.941017092	0.005115875
RP11-20I23.8	ATP10A	0.959216107	0.00246107
RP11-473M20.11	CPNE5	0.906354787	0.012743532
CDC37L1-AS1	ATP10A	0.927701339	0.007651689
RP11-680G24.6	CPNE5	0.84095311	0.035932252
LA16c-359F1.1	CPNE5	0.894391955	0.016140662
RP5-1142A6.10	ATP10A	0.968099825	0.001510201
RP11-556I13.1	ATP10A	0.95555411	0.002919256
AC011558.5	ATP10A	0.934740407	0.006249257
RP4-784A16.3	ATP11B	0.951232495	0.003509413
RP11-118G23.2	ATP13A3	0.9514096	0.003484179
CTA-315H11.2	ATP13A4	-0.961086584	0.002241919
RP11-473M20.11	STON1	0.888354939	0.018001123
RP11-66D17.5	ATP13A4	0.924909499	0.008246173
RP11-680G24.6	STON1	0.884657526	0.019188578
RP11-126K1.8	ATP13A4	0.9591569	0.002468172
RP3-438O4.4	ATP13A4	0.978883343	0.000664162
NUP50-AS1	ATP13A4	0.970430936	0.001298568
PSMD5-AS1	ATP13A4	0.989265698	0.000172219
TOPORS-AS1	ATP13A4	0.972234914	0.001145648
AC087294.2	ATP13A4	0.991907635	9.80E-05
AP001062.8	ATP13A4	0.979741123	0.000611476
RP11-455F5.3	ATP13A4	0.99471092	4.19E-05
RP11-326C3.2	ATP13A4	0.998512218	3.32E-06
AP006621.8	ATP13A4	0.992779755	7.80E-05
JHDM1D-AS1	ATP13A4	0.995066615	3.64E-05
RP11-20I23.6	ATP13A4	0.997098996	1.26E-05
RP11-160E2.19	ATP13A4	0.970439813	0.001297792
AC005786.7	ATP13A4	0.986196486	0.00028449
RP11-473M20.11	EFEMP1	0.914673258	0.010610362
AC005944.2	ATP13A4	0.966442986	0.001670216
RP11-680G24.6	EFEMP1	0.848926379	0.032510864
LA16c-359F1.1	EFEMP1	0.898846162	0.01483064
CTB-191K22.5	ATP13A4	0.961501275	0.002194697
RP11-20I23.8	ATP13A4	0.99612383	2.25E-05
CDC37L1-AS1	ATP13A4	0.982133475	0.000475967
RP5-1142A6.10	ATP13A4	0.990308947	0.00014042
RP11-556I13.1	ATP13A4	0.995055355	3.66E-05
RP11-473M20.11	ATP2A3	0.93981621	0.005324137
RP11-473M20.11	RARRES2	0.914673258	0.010610362
CTD-2531D15.5	ATP5G3	0.918554573	0.009679908
RP11-680G24.6	RARRES2	0.848926379	0.032510864
LA16c-359F1.1	RARRES2	0.898846162	0.01483064
RP11-770G2.2	ATP5G3	0.939233744	0.005426616
RP11-66D17.5	ATP5I	0.959294528	0.00245168
RP11-126K1.8	ATP5I	0.932988655	0.006585323
NUP50-AS1	ATP5I	0.932303615	0.006719081
AC005944.2	ATP5I	0.938648015	0.005530633
CTB-191K22.5	ATP5I	0.948261251	0.003946097
RP11-473M20.11	FAM135A	0.87221186	0.023451335
LL21NC02-21A1.1	ATP5I	0.976070836	0.000852056
RP11-680G24.6	FAM135A	0.842666609	0.03518362
LA16c-359F1.1	FAM135A	0.888002643	0.018112698
Z69720.3	FAM135A	0.910560148	0.011641494
RP11-34P13.14	ATP6V0A2	0.935127805	0.006176098
RP11-93O14.2	ATP6V0A2	0.958105702	0.002595933
RP11-78A19.3	ATP6V0A2	0.938634035	0.005533127
RP11-680G24.6	ATP6V0A2	0.96490638	0.001825733
LA16c-359F1.1	ATP6V0A2	0.952946368	0.003268977
RP11-473M20.11	RFX8	0.914673258	0.010610362
Z69720.3	ATP6V0A2	0.940919463	0.005132654

RP11-680G24.6	RFX8	0.848926379	0.032510864
LA16c-359F1.1	RFX8	0.898846162	0.01483064
CTA-315H11.2	ATP8B2	-0.974588537	0.000960409
RP3-438O4.4	ATP8B2	0.923534505	0.008546912
PSMD5-AS1	ATP8B2	0.929607289	0.007258298
AC087294.2	ATP8B2	0.933048302	0.006573738
RP11-455F5.3	ATP8B2	0.938338066	0.005586066
RP11-326C3.2	ATP8B2	0.965501657	0.001764675
RP11-498J9.2	SMAD6	0.90212234	0.013901219
RP11-93O14.2	SMAD6	0.873775047	0.022893553
AP006621.8	ATP8B2	0.941256588	0.005074827
RP11-78A19.3	SMAD6	0.875645925	0.022234402
LA16c-359F1.1	SMAD6	0.818931939	0.046210248
Z69720.3	SMAD6	0.885616503	0.018877104
AC024028.1	VSIG10L	0.915068156	0.010513803
JHDM1D-AS1	ATP8B2	0.947953411	0.003992778
RP11-20I23.6	ATP8B2	0.946227986	0.004259405
RP11-160E2.19	ATP8B2	0.953422234	0.003203707
AC005786.7	ATP8B2	0.919645757	0.009425791
RP11-473M20.11	VSIG10L	0.849806404	0.032143132
RP11-20I23.8	ATP8B2	0.947049192	0.004131451
RP11-680G24.6	VSIG10L	0.826587369	0.042500484
LA16c-359F1.1	VSIG10L	0.881214751	0.020326877
CDC37L1-AS1	ATP8B2	0.937406073	0.005754378
RP5-1142A6.10	ATP8B2	0.93210897	0.006757326
RP11-556I13.1	ATP8B2	0.948181523	0.003958162
AC024028.1	ATXN1	0.957115719	0.002719159
RP11-498J9.2	ATXN1	0.994559013	4.43E-05
RP11-34P13.14	ATXN1	0.971891656	0.001174015
RP11-473M20.11	NIPAL4	0.913652584	0.010861916
RP11-93O14.2	ATXN1	0.979951592	0.000598879
RP11-680G24.6	NIPAL4	0.849534609	0.032256495
LA16c-359F1.1	NIPAL4	0.900244989	0.014430259
RP11-485G7.6	ATXN1	0.957484969	0.002672868
RP11-78A19.3	ATXN1	0.97448486	0.000968228
Z69720.3	ATXN1	0.980194895	0.000584479
CTD-2139B15.2	AURKB	0.918776607	0.009627934
CCDC144NL-AS1	AUTS2	-0.917365934	0.009960455
CTA-315H11.2	AUTS2	-0.949811623	0.003715101
RP11-473M20.11	MARCH1	0.91455793	0.010638643
PSMD5-AS1	AUTS2	0.9213699	0.009030966
RP11-680G24.6	MARCH1	0.850245057	0.031960571
LA16c-359F1.1	MARCH1	0.880402663	0.020599953
RP11-326C3.2	AUTS2	0.945715064	0.004340296
AP006621.8	AUTS2	0.931817872	0.006814721
RP11-160E2.19	AUTS2	0.982420347	0.00046085
AC011558.5	AUTS2	0.967032096	0.001612408
AC024028.1	AVP	0.963178906	0.002008729
RP11-498J9.2	AVP	0.999912316	1.15E-08
RP11-34P13.14	AVP	0.977253148	0.000770244
RP11-93O14.2	AVP	0.981745419	0.000496803
RP11-485G7.6	AVP	0.966739865	0.001640958
RP11-78A19.3	AVP	0.982197055	0.000472596
Z69720.3	AVP	0.987170053	0.000245855
RP11-126K1.8	AVPI1	-0.931663551	0.006845244
RP3-438O4.4	AVPI1	-0.928216877	0.007544282
RP11-473M20.11	GNA14	0.910159266	0.011744468
AC087294.2	AVPI1	-0.928206382	0.007546462
RP11-680G24.6	GNA14	0.842951834	0.035059462
LA16c-359F1.1	GNA14	0.895389144	0.015842746
AP001062.8	AVPI1	-0.926602049	0.007883182
RP11-455F5.3	AVPI1	-0.929967036	0.007185182
JHDM1D-AS1	AVPI1	-0.931048399	0.006967576

RMRP	AVPI1	-0.958528015	0.002544224
RP11-20I23.8	AVPI1	-0.925633471	0.008089933
CDC37L1-AS1	AVPI1	-0.926642818	0.007874537
RP11-556I13.1	AVPI1	-0.931004546	0.006976337
CTA-315H11.2	AXIN2	-0.966149756	0.001699365
RP11-126K1.8	AXIN2	0.951660741	0.003448549
RP3-438O4.4	AXIN2	0.972046845	0.001161147
NUP50-AS1	AXIN2	0.963499646	0.0019741
PSMD5-AS1	AXIN2	0.989630918	0.000160719
TOPORS-AS1	AXIN2	0.966482967	0.001666261
AC087294.2	AXIN2	0.987365789	0.000238427
AP001062.8	AXIN2	0.973303959	0.001059505
RP11-473M20.11	KRT86	0.913118848	0.010994598
RP11-455F5.3	AXIN2	0.991066537	0.000119354
RP11-680G24.6	KRT86	0.845827888	0.033821299
LA16c-359F1.1	KRT86	0.896683658	0.015459987
RP11-326C3.2	AXIN2	0.999786425	6.84E-08
AP006621.8	AXIN2	0.993534442	6.26E-05
JHDM1D-AS1	AXIN2	0.991412934	0.00011029
RP11-20I23.6	AXIN2	0.995150519	3.52E-05
RP11-160E2.19	AXIN2	0.978001955	0.000720548
AC005786.7	AXIN2	0.982107566	0.000477345
RP11-473M20.11	MAGED4	0.914673258	0.010610362
AC005944.2	AXIN2	0.965441178	0.001770831
RP11-680G24.6	MAGED4	0.848926379	0.032510864
LA16c-359F1.1	MAGED4	0.898846162	0.01483064
CTB-191K22.5	AXIN2	0.954497076	0.003058667
RP11-20I23.8	AXIN2	0.992909773	7.52E-05
CDC37L1-AS1	AXIN2	0.976510104	0.000821182
RP5-1142A6.10	AXIN2	0.989308687	0.000170845
RP11-556I13.1	AXIN2	0.991404028	0.000110519
RP5-1033H22.2	AXL	0.96718847	0.001597232
RP11-473M20.11	FN1	0.859320344	0.028294069
RP11-21J18.1	AXL	0.950900045	0.003557023
RP11-680G24.6	FN1	0.813074284	0.049146128
LA16c-359F1.1	FN1	0.877381185	0.021631251
RP11-298J23.8	AXL	0.952846054	0.003282819
RP11-165D6.1	AXL	0.979718496	0.000612838
RP11-91K8.5	AZGP1	0.98130798	0.000520822
RP4-784A16.3	B3GALNT2	0.918370725	0.009723046
CCDC144NL-AS1	B4GALT4	-0.974685648	0.000953114
CTA-315H11.2	B4GALT4	-0.954203065	0.003098013
RP11-473M20.11	SERF1A	0.896795555	0.015427113
PSMD5-AS1	B4GALT4	0.931031573	0.006970937
RP11-680G24.6	SERF1A	0.857630093	0.028960924
LA16c-359F1.1	SERF1A	0.906815284	0.012620507
RP11-326C3.2	B4GALT4	0.933834111	0.006422053
AC024028.1	C3	0.83440921	0.038860189
AP006621.8	B4GALT4	0.939901624	0.00530919
RP11-34P13.14	C3	0.846600833	0.033492116
RP11-93O14.2	C3	0.898309978	0.01498551
RP11-160E2.19	B4GALT4	0.945005484	0.004453433
RP11-78A19.3	C3	0.89309224	0.016532965
LA16c-359F1.1	C3	0.813638518	0.04885968
Z69720.3	C3	0.914529817	0.010645542
CTA-315H11.2	B4GALT7	-0.943752839	0.004656639
RP11-66D17.5	B4GALT7	0.951309949	0.003498366
RP11-126K1.8	B4GALT7	0.971974864	0.001167107
RP3-438O4.4	B4GALT7	0.993543038	6.24E-05
NUP50-AS1	B4GALT7	0.984368518	0.000364605
RP11-473M20.11	MMP17	0.895299985	0.015869274
PSMD5-AS1	B4GALT7	0.983082868	0.000426863
RP11-680G24.6	MMP17	0.828894327	0.041410984

LA16c-359F1.1	MMP17	0.888002086	0.018112874
TOPORS-AS1	B4GALT7	0.982121699	0.000476593
AC087294.2	B4GALT7	0.998975161	1.57E-06
AP001062.8	B4GALT7	0.991499564	0.000108079
RP11-455F5.3	B4GALT7	0.998781336	2.23E-06
RP11-326C3.2	B4GALT7	0.989293807	0.00017132
AP006621.8	B4GALT7	0.984865181	0.000341861
RP11-473M20.11	CDCP1	0.876781126	0.021838927
JHDM1D-AS1	B4GALT7	0.999869754	2.54E-08
RP11-680G24.6	CDCP1	0.845453063	0.033981476
LA16c-359F1.1	CDCP1	0.898508671	0.01492803
RP11-20I23.6	B4GALT7	0.997833926	7.03E-06
RP11-160E2.19	B4GALT7	0.946447885	0.004224954
AC005786.7	B4GALT7	0.993475575	6.37E-05
AC005944.2	B4GALT7	0.967459715	0.001571077
CTB-191K22.5	B4GALT7	0.977375712	0.000761997
RP11-20I23.8	B4GALT7	0.999865234	2.72E-08
CDC37L1-AS1	B4GALT7	0.994987795	3.76E-05
RP5-1142A6.10	B4GALT7	0.988868419	0.000185178
RP11-556I13.1	B4GALT7	0.999870528	2.51E-08
CTD-2139B15.2	B9D1	0.934272203	0.006338238
AC024028.1	BAALC	0.963743796	0.001947939
RP11-498J9.2	BAALC	0.999979359	6.39E-10
RP11-34P13.14	BAALC	0.978568759	0.000684025
RP11-93O14.2	BAALC	0.983882307	0.000387577
RP11-485G7.6	BAALC	0.966031996	0.001711141
RP11-78A19.3	BAALC	0.984360642	0.000364972
Z69720.3	BAALC	0.98606072	0.000290101
RP11-498J9.2	BACH1	0.933382648	0.006508988
RP11-34P13.14	BACH1	0.962838255	0.002045833
RP11-93O14.2	BACH1	0.97734446	0.000764096
RP11-473M20.11	EPB41L3	0.866961667	0.025371461
RP11-78A19.3	BACH1	0.971979532	0.00116672
LA16c-359F1.1	EPB41L3	0.875339653	0.02234168
RP11-680G24.6	BACH1	0.971119834	0.001239052
LA16c-359F1.1	BACH1	0.971759374	0.001185038
Z69720.3	BACH1	0.934685944	0.006259576
AC024028.1	BACH2	0.972061824	0.001159909
RP11-473M20.11	BACH2	0.99679492	1.54E-05
AC024028.1	BAMBI	0.952819016	0.003286554
RP11-473M20.11	CALN1	0.913995982	0.010776964
RP11-498J9.2	BAMBI	0.998231842	4.69E-06
RP11-680G24.6	CALN1	0.849533284	0.032257048
LA16c-359F1.1	CALN1	0.899911801	0.014525147
RP11-34P13.14	BAMBI	0.978189924	0.000708332
RP11-93O14.2	BAMBI	0.989431218	0.000166958
RP11-485G7.6	BAMBI	0.972231938	0.001145892
RP11-78A19.3	BAMBI	0.990895299	0.000123966
LA16c-359F1.1	BAMBI	0.922466576	0.008784104
Z69720.3	BAMBI	0.984785509	0.00034546
RP11-770G2.2	BANF1	0.937431521	0.00574975
RP11-473M20.11	BASP1	0.953932692	0.003134413
CTA-315H11.2	BAT3	-0.930567679	0.00706391
RP11-66D17.5	BAT3	0.965488565	0.001766007
RP11-126K1.8	BAT3	0.979373718	0.000633778
RP3-438O4.4	BAT3	0.992457132	8.51E-05
NUP50-AS1	BAT3	0.992607865	8.18E-05
RP11-473M20.11	ARHGEF17	0.913185842	0.010977901
PSMD5-AS1	BAT3	0.986073431	0.000289573
RP11-680G24.6	ARHGEF17	0.848569574	0.032660522
LA16c-359F1.1	ARHGEF17	0.898474524	0.0149379
TOPORS-AS1	BAT3	0.98376075	0.000393429
AC087294.2	BAT3	0.99909803	1.22E-06

AP001062.8	BAT3	0.995866207	2.56E-05
RP11-455F5.3	BAT3	0.998333903	4.16E-06
RP11-326C3.2	BAT3	0.985017681	0.000335023
AP006621.8	BAT3	0.985395473	0.000318381
RP11-473M20.11	BCL6B	0.89449125	0.016110878
JHDM1D-AS1	BAT3	0.997307715	1.09E-05
RP11-680G24.6	BCL6B	0.871885781	0.023568494
LA16c-359F1.1	BCL6B	0.905478942	0.012979109
RP11-20I23.6	BAT3	0.997476882	9.54E-06
RP11-160E2.19	BAT3	0.94274177	0.004823897
AC005786.7	BAT3	0.996814519	1.52E-05
AC005944.2	BAT3	0.979229261	0.000642655
CTB-191K22.5	BAT3	0.987199082	0.000244746
RP11-20I23.8	BAT3	0.99813441	5.22E-06
RP11-473M20.11	HGD	0.892360274	0.016755892
CDC37L1-AS1	BAT3	0.992509986	8.39E-05
RP11-680G24.6	HGD	0.885832091	0.018807417
RP5-1142A6.10	BAT3	0.991280464	0.000113714
RP11-556I13.1	BAT3	0.997255408	1.13E-05
RP11-498J9.2	BBX	0.924559365	0.008322257
RP11-34P13.14	BBX	0.951120309	0.003525444
RP11-93O14.2	BBX	0.971226943	0.001229923
RP11-78A19.3	BBX	0.965730048	0.001741521
RP11-680G24.6	BBX	0.982705666	0.000446055
RP11-473M20.11	MPP3	0.911070771	0.011510967
LA16c-359F1.1	BBX	0.985970576	0.000293856
RP11-680G24.6	MPP3	0.846907032	0.03336213
LA16c-359F1.1	MPP3	0.898908936	0.01481256
Z69720.3	BBX	0.932602703	0.006660521
CTA-315H11.2	BCAM	-0.954695847	0.003032207
RP11-66D17.5	BCAM	0.940520973	0.005201421
RP11-126K1.8	BCAM	0.968353045	0.001486447
RP3-438O4.4	BCAM	0.987970317	0.000216199
NUP50-AS1	BCAM	0.97911782	0.000649545
RP11-473M20.11	RTKN	0.886984276	0.018437081
PSMD5-AS1	BCAM	0.987430497	0.000235996
RP11-680G24.6	RTKN	0.843304862	0.034906353
LA16c-359F1.1	RTKN	0.888668479	0.017902101
TOPORS-AS1	BCAM	0.976950487	0.000790797
AC087294.2	BCAM	0.997009739	1.34E-05
AP001062.8	BCAM	0.987589652	0.000230069
RP11-455F5.3	BCAM	0.998294609	4.36E-06
RP11-326C3.2	BCAM	0.994350326	4.78E-05
AP006621.8	BCAM	0.989964533	0.000150561
RP11-473M20.11	DPF1	0.878245011	0.021333951
JHDM1D-AS1	BCAM	0.998958196	1.63E-06
RP11-680G24.6	DPF1	0.857763026	0.028908212
LA16c-359F1.1	DPF1	0.901546296	0.014062535
RP11-20I23.6	BCAM	0.998186097	4.93E-06
RP11-160E2.19	BCAM	0.957599842	0.002658547
AC005786.7	BCAM	0.990443441	0.000136555
AC005944.2	BCAM	0.968257783	0.001495361
CTB-191K22.5	BCAM	0.971768361	0.001184287
RP11-20I23.8	BCAM	0.999396893	5.45E-07
RP11-473M20.11	SLITRK6	0.914420476	0.010672396
CDC37L1-AS1	BCAM	0.990501182	0.000134913
RP11-680G24.6	SLITRK6	0.84965763	0.032205161
LA16c-359F1.1	SLITRK6	0.899720237	0.014579838
RP5-1142A6.10	BCAM	0.989407389	0.000167711
RP11-556I13.1	BCAM	0.99894965	1.65E-06
AC024028.1	BCAR3	0.95385783	0.003144529
RP11-498J9.2	BCAR3	0.998843258	2.01E-06
RP11-34P13.14	BCAR3	0.980927461	0.000542174

RP11-93O14.2	BCAR3	0.988309765	0.000204194
RP11-473M20.11	FCRLA	0.877893832	0.021454578
RP11-485G7.6	BCAR3	0.967187841	0.001597293
RP11-680G24.6	FCRLA	0.828712351	0.041496445
LA16c-359F1.1	FCRLA	0.895598271	0.015780607
RP11-78A19.3	BCAR3	0.985671079	0.000306506
Z69720.3	BCAR3	0.989392392	0.000168185
AC005944.2	BCAT1	-0.926297415	0.007947928
MIR210HG	BCL11A	0.942953594	0.004788616
CTD-2139B15.2	BCL11A	0.949308624	0.003789295
RP11-91K8.5	BCL11A	0.926154948	0.007978296
RP11-473M20.11	BLNK	0.895834244	0.015710632
AC011558.5	BCL2A1	0.93832975	0.005587557
RP11-680G24.6	BLNK	0.833661584	0.039201538
LA16c-359F1.1	BLNK	0.89480413	0.016017199
CTA-315H11.2	BCL2L1	-0.944489174	0.004536651
RP11-66D17.5	BCL2L1	0.952923533	0.003272125
RP11-126K1.8	BCL2L1	0.97510547	0.000921892
RP3-438O4.4	BCL2L1	0.993953326	5.47E-05
NUP50-AS1	BCL2L1	0.985145924	0.000329327
PSMD5-AS1	BCL2L1	0.982844328	0.000438951
RP11-473M20.11	BEGAIN	0.907841857	0.01234833
TOPORS-AS1	BCL2L1	0.979768062	0.000609856
RP11-680G24.6	BEGAIN	0.849332261	0.032341015
LA16c-359F1.1	BEGAIN	0.897675884	0.015169659
AC087294.2	BCL2L1	0.999304905	7.25E-07
AP001062.8	BCL2L1	0.992748699	7.87E-05
RP11-455F5.3	BCL2L1	0.999160754	1.06E-06
RP11-326C3.2	BCL2L1	0.987672874	0.000227
AP006621.8	BCL2L1	0.984520475	0.000357569
JHDM1D-AS1	BCL2L1	0.999956126	2.89E-09
RP11-473M20.11	SERPINB10	0.896787143	0.015429583
RP11-20I23.6	BCL2L1	0.996544954	1.79E-05
RP11-680G24.6	SERPINB10	0.83754206	0.037445031
LA16c-359F1.1	SERPINB10	0.897434055	0.015240174
RP11-160E2.19	BCL2L1	0.942193719	0.004915767
AC005786.7	BCL2L1	0.992002916	9.57E-05
AC005944.2	BCL2L1	0.966818458	0.001633255
CTB-191K22.5	BCL2L1	0.978826416	0.000667735
RP11-20I23.8	BCL2L1	0.999783065	7.06E-08
CDC37L1-AS1	BCL2L1	0.995301581	3.31E-05
RP11-473M20.11	IGLON5	0.909029826	0.012036944
RP5-1142A6.10	BCL2L1	0.986087435	0.000288993
RP11-680G24.6	IGLON5	0.84825791	0.032791512
LA16c-359F1.1	IGLON5	0.897830293	0.015124717
RP11-556I13.1	BCL2L1	0.999946432	4.30E-09
RP11-66D17.5	BCL2L14	0.98352831	0.00040474
RP11-126K1.8	BCL2L14	0.98789254	0.000218998
RP3-438O4.4	BCL2L14	0.98771388	0.000225496
NUP50-AS1	BCL2L14	0.998576036	3.04E-06
PSMD5-AS1	BCL2L14	0.980621305	0.000559662
RP11-473M20.11	HOXA10	0.868947149	0.024636868
TOPORS-AS1	BCL2L14	0.974646113	0.00095608
RP11-680G24.6	HOXA10	0.82926812	0.041235699
LA16c-359F1.1	HOXA10	0.885018588	0.019071019
AC087294.2	BCL2L14	0.993620845	6.09E-05
AP001062.8	BCL2L14	0.99766105	8.20E-06
RP11-455F5.3	BCL2L14	0.991558399	0.00010659
RP11-326C3.2	BCL2L14	0.967673008	0.00155066
AP006621.8	BCL2L14	0.976324697	0.000834145
JHDM1D-AS1	BCL2L14	0.988001616	0.000215078
RP11-473M20.11	RASAL1	0.902596249	0.013769178
RP11-20I23.6	BCL2L14	0.987401713	0.000237075

RP11-680G24.6	RASAL1	0.862118218	0.027206417
LA16c-359F1.1	RASAL1	0.908364203	0.012210941
RP11-160E2.19	BCL2L14	0.919494529	0.009460813
AC005786.7	BCL2L14	0.991952648	9.69E-05
AC005944.2	BCL2L14	0.985796876	0.000301161
CTB-191K22.5	BCL2L14	0.99758412	8.75E-06
RP11-20I23.8	BCL2L14	0.989306171	0.000170925
CDC37L1-AS1	BCL2L14	0.986447226	0.000274272
RP11-473M20.11	TREML4	0.914062518	0.010760541
RP5-1142A6.10	BCL2L14	0.981081041	0.000533505
RP11-680G24.6	TREML4	0.847684428	0.033033187
LA16c-359F1.1	TREML4	0.897987091	0.015079145
RP11-556I13.1	BCL2L14	0.987878683	0.000219499
RP11-473M20.11	BCL3	0.945805143	0.004326036
CCDC144NL-AS1	BCL6	-0.926397668	0.007926592
CTA-315H11.2	BCL6	-0.961393733	0.002206895
RP11-126K1.8	BCL6	0.966127588	0.001701579
RP3-438O4.4	BCL6	0.963038357	0.002023997
RP11-473M20.11	ULBP2	0.907828475	0.012351859
NUP50-AS1	BCL6	0.962053989	0.00213253
RP11-680G24.6	ULBP2	0.840251467	0.036241032
LA16c-359F1.1	ULBP2	0.895255689	0.015882462
PSMD5-AS1	BCL6	0.986786246	0.000260751
AC024028.1	C6orf204	0.861767535	0.027341634
RP11-34P13.14	C6orf204	0.892757265	0.016634807
RP11-473M20.11	C6orf204	0.839341312	0.036643423
Z69720.3	C6orf204	0.81324063	0.049061597
RP3-337H4.8	C6orf204	-0.872153289	0.023472359
CTD-2139B15.2	C6orf204	-0.871272818	0.023789482
AC024028.1	ANGPT1	0.900593469	0.014331337
TOPORS-AS1	BCL6	0.950793364	0.003572368
AC087294.2	BCL6	0.982783692	0.00044205
AP001062.8	BCL6	0.974479422	0.000968639
RP11-485G7.6	ANGPT1	0.850612647	0.031807964
RP11-473M20.11	ANGPT1	0.829983607	0.04090115
RP11-78A19.3	ANGPT1	0.911210334	0.011475416
RP11-680G24.6	ANGPT1	0.870258958	0.024157158
LA16c-359F1.1	ANGPT1	0.83454287	0.03879931
RP11-455F5.3	BCL6	0.988263862	0.000205797
RP11-326C3.2	BCL6	0.989479679	0.000165434
AP006621.8	BCL6	0.990905151	0.000123698
JHDM1D-AS1	BCL6	0.984889187	0.00034078
RP11-20I23.6	BCL6	0.983148441	0.00042357
RP11-160E2.19	BCL6	0.955597457	0.002913607
RP11-473M20.11	MEIS3	0.914124282	0.010745307
AC005786.7	BCL6	0.967867338	0.001532173
RP11-680G24.6	MEIS3	0.850488212	0.031859586
LA16c-359F1.1	MEIS3	0.900713914	0.014297223
AC005944.2	BCL6	0.956090599	0.002849724
CTB-191K22.5	BCL6	0.953044639	0.003255445
RP11-20I23.8	BCL6	0.985943915	0.000294972
CDC37L1-AS1	BCL6	0.964044191	0.001915988
RP5-1142A6.10	BCL6	0.971495265	0.0012072
RP11-556I13.1	BCL6	0.984773318	0.000346013
RP11-473M20.11	RASD2	0.912303791	0.011198718
AC024028.1	BCL6B	0.953073688	0.00325145
RP11-680G24.6	RASD2	0.845602519	0.033917565
LA16c-359F1.1	RASD2	0.896919331	0.015390788
RP11-498J9.2	BCL6B	0.996947156	1.40E-05
RP11-34P13.14	BCL6B	0.985248078	0.000324824
RP11-93O14.2	BCL6B	0.987079574	0.000249328
RP11-485G7.6	BCL6B	0.958570225	0.002539084
RP11-78A19.3	BCL6B	0.981858252	0.000490699

Z69720.3	BCL6B	0.992257881	8.97E-05
RP11-473M20.11	PTPN5	0.913232868	0.010966188
CTA-315H11.2	BCL9L	-0.924044397	0.008434777
RP11-680G24.6	PTPN5	0.848710727	0.032601278
LA16c-359F1.1	PTPN5	0.899666006	0.014595339
RP11-160E2.19	BCL9L	0.949437026	0.003770286
AC011558.5	BCL9L	0.966008563	0.00171349
RP11-118G23.2	BCS1L	-0.967171963	0.001598831
RP11-680G24.6	BCS1L	-0.958623633	0.002532587
RP4-784A16.3	BDP1	0.952388198	0.00334636
RP11-77G23.2	BDP1	0.964130143	0.001906894
RP11-473M20.11	PROM1	0.910534048	0.011648185
AC024028.1	BEGAIN	0.960149917	0.002350402
RP11-680G24.6	PROM1	0.856747073	0.029312226
LA16c-359F1.1	PROM1	0.909062206	0.01202851
RP11-498J9.2	BEGAIN	0.999673391	1.60E-07
RP11-34P13.14	BEGAIN	0.977391637	0.000760929
RP11-93O14.2	BEGAIN	0.983601502	0.000401161
RP11-485G7.6	BEGAIN	0.9669374	0.001621632
RP11-78A19.3	BEGAIN	0.982188219	0.000473064
Z69720.3	BEGAIN	0.987542191	0.000231829
RP11-473M20.11	KRT81	0.914673258	0.010610362
CTA-315H11.2	BEST3	-0.942204804	0.004913901
RP11-680G24.6	KRT81	0.848926379	0.032510864
LA16c-359F1.1	KRT81	0.898846162	0.01483064
RP11-66D17.5	BEST3	0.946741565	0.004179159
RP11-126K1.8	BEST3	0.977866744	0.0007294
RP3-438O4.4	BEST3	0.991441494	0.000109559
NUP50-AS1	BEST3	0.979987409	0.000596748
PSMD5-AS1	BEST3	0.974298967	0.000982326
TOPORS-AS1	BEST3	0.971051893	0.00124486
RP11-473M20.11	CD200R1L	0.913766663	0.010833659
AC087294.2	BEST3	0.99583017	2.60E-05
RP11-680G24.6	CD200R1L	0.851456032	0.031459131
LA16c-359F1.1	CD200R1L	0.901872974	0.013970942
AP001062.8	BEST3	0.990712562	0.000128984
RP11-455F5.3	BEST3	0.996014874	2.38E-05
RP11-326C3.2	BEST3	0.979448903	0.000629182
AP006621.8	BEST3	0.977191976	0.000774377
JHDM1D-AS1	BEST3	0.996611162	1.72E-05
RP11-20I23.6	BEST3	0.987905157	0.000218543
RP11-473M20.11	RAPGEF3	0.904721795	0.01318444
RP11-160E2.19	BEST3	0.923371371	0.008582941
RP11-680G24.6	RAPGEF3	0.86293076	0.026894338
LA16c-359F1.1	RAPGEF3	0.907687743	0.012389007
AC005786.7	BEST3	0.981874113	0.000489844
AC005944.2	BEST3	0.951505592	0.003470539
CTB-191K22.5	BEST3	0.973125353	0.001073665
RP11-20I23.8	BEST3	0.995352327	3.24E-05
CDC37L1-AS1	BEST3	0.991404556	0.000110505
RP11-485G7.6	SIPA1L3	0.867969322	0.024997364
RP5-1142A6.10	BEST3	0.9722482	0.001144557
RP11-556I13.1	BEST3	0.996588203	1.74E-05
RP11-680G24.6	SIPA1L3	0.837658125	0.037393076
LA16c-359F1.1	SIPA1L3	0.83263459	0.039672719
RP5-1033H22.2	BHLHB9	0.987720316	0.00022526
RP11-485G7.6	GABARAPL3	0.843965717	0.034620587
RP11-21J18.1	BHLHB9	0.95607789	0.002851361
RP11-298J23.8	BHLHB9	0.976819928	0.000799746
RP11-165D6.1	BHLHB9	0.992017814	9.53E-05
RP11-498J9.2	BHLHE40	0.973722702	0.001026672
RP11-34P13.14	BHLHE40	0.946644536	0.004194262
RP11-473M20.11	LEPREL2	0.910951076	0.0115415

RP11-93O14.2	BHLHE40	0.983546391	0.000403855
RP11-680G24.6	LEPREL2	0.841784383	0.035568031
LA16c-359F1.1	LEPREL2	0.893774311	0.016326526
RP11-485G7.6	BHLHE40	0.980245259	0.00058152
RP11-78A19.3	BHLHE40	0.991669737	0.000103801
LA16c-359F1.1	BHLHE40	0.961612972	0.002182063
Z69720.3	BHLHE40	0.952462583	0.003335996
RP5-1033H22.2	BIK	0.958815194	0.002509354
RP11-298J23.8	BIK	0.951414644	0.003483461
RP11-473M20.11	MMP8	0.913399148	0.010924821
RP11-165D6.1	BIK	0.944246299	0.004576058
RP11-680G24.6	MMP8	0.850851409	0.031709025
LA16c-359F1.1	MMP8	0.901502703	0.01407478
CTA-315H11.2	BIN1	-0.96334108	0.001991182
RP11-126K1.8	BIN1	0.927245149	0.007747347
RP3-438O4.4	BIN1	0.948793738	0.003865988
NUP50-AS1	BIN1	0.942967028	0.004786383
PSMD5-AS1	BIN1	0.984582004	0.000354739
TOPORS-AS1	BIN1	0.952785871	0.003291137
RP11-473M20.11	BAMBI	0.898991138	0.014788899
AC087294.2	BIN1	0.970194397	0.001319322
RP11-680G24.6	BAMBI	0.870936801	0.023911041
AP001062.8	BIN1	0.952211302	0.00337107
RP11-455F5.3	BIN1	0.975848388	0.000867907
RP11-326C3.2	BIN1	0.997277187	1.11E-05
AP006621.8	BIN1	0.989166104	0.000175424
JHDM1D-AS1	BIN1	0.975590342	0.000886475
RP11-20I23.6	BIN1	0.985705249	0.000305049
RP11-160E2.19	BIN1	0.992391623	8.66E-05
RP11-473M20.11	OSBPL10	0.905920493	0.012860084
AC005786.7	BIN1	0.969294908	0.00139973
RP11-680G24.6	OSBPL10	0.865294664	0.025996142
AC005944.2	BIN1	0.958840112	0.002506339
CTB-191K22.5	BIN1	0.931951121	0.00678842
RP11-20I23.8	BIN1	0.978467839	0.000690459
CDC37L1-AS1	BIN1	0.954486111	0.00306013
RP5-1142A6.10	BIN1	0.985261215	0.000324247
RP11-556I13.1	BIN1	0.975577209	0.000887425
CTA-315H11.2	BIRC2	-0.951909295	0.003413464
RP11-473M20.11	RNF212	0.896044894	0.015648292
RP11-66D17.5	BIRC2	0.944722401	0.004498966
RP11-680G24.6	RNF212	0.840004272	0.036350113
LA16c-359F1.1	RNF212	0.892503626	0.01671212
RP11-126K1.8	BIRC2	0.971170803	0.001234704
RP3-438O4.4	BIRC2	0.990528164	0.000134149
NUP50-AS1	BIRC2	0.981167942	0.00052863
PSMD5-AS1	BIRC2	0.985601847	0.000309468
TOPORS-AS1	BIRC2	0.977673268	0.00074216
AC087294.2	BIRC2	0.998088247	5.48E-06
RP11-473M20.11	SUCNR1	0.906948422	0.012585046
AP001062.8	BIRC2	0.989650051	0.000160128
RP11-680G24.6	SUCNR1	0.856820092	0.0292831
LA16c-359F1.1	SUCNR1	0.909412756	0.011937391
RP11-455F5.3	BIRC2	0.99888081	1.88E-06
RP11-326C3.2	BIRC2	0.991961843	9.67E-05
AP006621.8	BIRC2	0.987957595	0.000216656
JHDM1D-AS1	BIRC2	0.999671301	1.62E-07
RP11-20I23.6	BIRC2	0.997507614	9.31E-06
RP11-160E2.19	BIRC2	0.951361936	0.003490961
RP11-473M20.11	PROC	0.914673258	0.010610362
AC005786.7	BIRC2	0.990705794	0.000129172
RP11-680G24.6	PROC	0.848926379	0.032510864
LA16c-359F1.1	PROC	0.898846162	0.01483064

AC005944.2	BIRC2	0.966948919	0.001620509
CTB-191K22.5	BIRC2	0.974202315	0.000989696
RP11-20I23.8	BIRC2	0.999792711	6.44E-08
CDC37L1-AS1	BIRC2	0.99266245	8.06E-05
RP5-1142A6.10	BIRC2	0.987648394	0.000227901
RP11-556I13.1	BIRC2	0.999663695	1.70E-07
RP11-473M20.11	MAP7D2	0.894634102	0.016068074
AC024028.1	BIRC3	0.951835052	0.003423925
RP11-680G24.6	MAP7D2	0.876738172	0.02185383
LA16c-359F1.1	MAP7D2	0.905194209	0.013056143
RP11-473M20.11	BIRC3	0.987699984	0.000226005
CTA-315H11.2	BLCAP	-0.943410218	0.004712993
RP11-66D17.5	BLCAP	0.953420715	0.003203915
RP11-126K1.8	BLCAP	0.970796335	0.001266828
RP3-438O4.4	BLCAP	0.988846381	0.000185911
NUP50-AS1	BLCAP	0.985693477	0.000305551
RP11-473M20.11	SEMA3C	0.911245697	0.011466416
PSMD5-AS1	BLCAP	0.988851823	0.00018573
RP11-680G24.6	SEMA3C	0.849244167	0.032377844
LA16c-359F1.1	SEMA3C	0.900266399	0.014424172
TOPORS-AS1	BLCAP	0.980541126	0.000564288
AC024028.1	SLC4A7	0.897158205	0.015320802
RP11-498J9.2	SLC4A7	0.855619543	0.029763718
AC087294.2	BLCAP	0.997300122	1.09E-05
RP11-93O14.2	SLC4A7	0.851936948	0.031261033
RP11-473M20.11	SLC4A7	0.863199232	0.0267916
RP11-78A19.3	SLC4A7	0.840747001	0.036022828
RP11-680G24.6	SLC4A7	0.824065626	0.043706516
Z69720.3	SLC4A7	0.87583941	0.022166757
RP3-337H4.8	SLC4A7	-0.837649327	0.037397013
CTD-2139B15.2	SLC4A7	-0.81692795	0.047205199
AP001062.8	BLCAP	0.990358587	0.000138987
RP11-455F5.3	BLCAP	0.997522856	9.20E-06
RP11-326C3.2	BLCAP	0.991142597	0.000117333
AP006621.8	BLCAP	0.989183779	0.000174853
JHDM1D-AS1	BLCAP	0.997387061	1.02E-05
RP11-473M20.11	PNOC	0.913436964	0.010915424
RP11-20I23.6	BLCAP	0.999198845	9.63E-07
RP11-680G24.6	PNOC	0.847766588	0.032998512
LA16c-359F1.1	PNOC	0.898782701	0.01484893
RP11-160E2.19	BLCAP	0.956576503	0.00278746
RP11-485G7.6	HAAO	0.84048921	0.036136266
RP11-485G7.6	SLC2A5	0.88739903	0.018304635
AC005786.7	BLCAP	0.995302839	3.30E-05
AC005944.2	BLCAP	0.978851958	0.00066613
CTB-191K22.5	BLCAP	0.980036379	0.000593841
RP11-20I23.8	BLCAP	0.99851759	3.29E-06
CDC37L1-AS1	BLCAP	0.99108831	0.000118773
RP11-473M20.11	CD19	0.912369601	0.011182169
RP5-1142A6.10	BLCAP	0.993592924	6.14E-05
RP11-680G24.6	CD19	0.847885206	0.032948481
LA16c-359F1.1	CD19	0.897798409	0.015133992
RP11-556I13.1	BLCAP	0.997360657	1.04E-05
AC024028.1	BLK	0.996343757	2.00E-05
RP11-498J9.2	BLK	0.9503066	0.003642794
RP11-34P13.14	BLK	0.933321283	0.006520849
RP11-473M20.11	BLK	0.994472402	4.57E-05
AC024028.1	BLNK	0.948988474	0.003836893
RP11-498J9.2	BLNK	0.996909795	1.43E-05
RP11-34P13.14	BLNK	0.962317505	0.002103202
AC024028.1	ITPR2	0.858149231	0.028755326
RP11-498J9.2	ITPR2	0.814184456	0.048583259
RP11-34P13.14	ITPR2	0.906575499	0.012684495

RP11-473M20.11	ITPR2	0.820469938	0.045453344
Z69720.3	ITPR2	0.846365766	0.033592065
RP3-337H4.8	ITPR2	-0.870430222	0.024094861
CTD-2139B15.2	ITPR2	-0.832670462	0.039656217
RP11-93O14.2	BLNK	0.981676485	0.000500551
RP11-485G7.6	BLNK	0.978865744	0.000665265
RP11-78A19.3	BLNK	0.981094091	0.000532771
Z69720.3	BLNK	0.978541035	0.00068579
CTD-2139B15.2	BLVRA	0.925447008	0.008130035
RP11-473M20.11	TPPP3	0.914673258	0.010610362
AC024028.1	BMP6	0.961054492	0.002245594
RP11-680G24.6	TPPP3	0.848926379	0.032510864
LA16c-359F1.1	TPPP3	0.898846162	0.01483064
RP11-498J9.2	BMP6	0.99975353	9.11E-08
RP11-34P13.14	BMP6	0.980727195	0.000553582
RP11-93O14.2	BMP6	0.985648835	0.000307456
RP11-485G7.6	BMP6	0.966219326	0.001692427
RP11-78A19.3	BMP6	0.98587481	0.000297872
Z69720.3	BMP6	0.98783642	0.000221029
RP11-473M20.11	SAMD14	0.911572972	0.011383289
MIR210HG	BNIP3	0.954887108	0.003006853
RP11-680G24.6	SAMD14	0.845646108	0.033898935
LA16c-359F1.1	SAMD14	0.897633535	0.015181996
CTA-315H11.2	BNIP3L	-0.945566262	0.004363903
RP11-66D17.5	BNIP3L	0.951212253	0.003512303
RP11-126K1.8	BNIP3L	0.974844698	0.000941225
RP3-438O4.4	BNIP3L	0.993703672	5.93E-05
NUP50-AS1	BNIP3L	0.98417243	0.000373785
PSMD5-AS1	BNIP3L	0.982318691	0.000466179
RP11-473M20.11	RAB3C	0.876945214	0.021782043
TOPORS-AS1	BNIP3L	0.979033857	0.000654761
RP11-680G24.6	RAB3C	0.811928851	0.049730026
LA16c-359F1.1	RAB3C	0.883188182	0.019670552
AC087294.2	BNIP3L	0.999083925	1.26E-06
AP001062.8	BNIP3L	0.992299078	8.87E-05
RP11-455F5.3	BNIP3L	0.999066974	1.31E-06
RP11-326C3.2	BNIP3L	0.98768362	0.000226606
AP006621.8	BNIP3L	0.984281762	0.000368653
JHDM1D-AS1	BNIP3L	0.999945911	4.39E-09
RP11-473M20.11	SDC2	0.868601536	0.024764001
RP11-20I23.6	BNIP3L	0.996075565	2.31E-05
LA16c-359F1.1	SDC2	0.882283704	0.019970085
RP11-160E2.19	BNIP3L	0.941609614	0.005014617
AC005786.7	BNIP3L	0.991062406	0.000119464
AC005944.2	BNIP3L	0.965046911	0.001811226
CTB-191K22.5	BNIP3L	0.977637828	0.000744509
RP11-20I23.8	BNIP3L	0.999659291	1.74E-07
CDC37L1-AS1	BNIP3L	0.995031851	3.70E-05
RP11-473M20.11	MUC12	0.903434888	0.013537005
RP5-1142A6.10	BNIP3L	0.985100799	0.000331326
RP11-680G24.6	MUC12	0.829175833	0.041278943
LA16c-359F1.1	MUC12	0.884228111	0.019328843
RP11-556I13.1	BNIP3L	0.999937812	5.80E-09
CTA-315H11.2	BPGM	-0.945587874	0.004360471
RP11-66D17.5	BPGM	0.950926791	0.003553181
RP11-126K1.8	BPGM	0.973869786	0.001015261
RP3-438O4.4	BPGM	0.993614637	6.10E-05
NUP50-AS1	BPGM	0.984063698	0.000378925
RP11-473M20.11	DBNDD1	0.912321619	0.011194234
PSMD5-AS1	BPGM	0.982673596	0.000447706
RP11-680G24.6	DBNDD1	0.849139596	0.032421587
LA16c-359F1.1	DBNDD1	0.897658696	0.015174666
TOPORS-AS1	BPGM	0.97978424	0.000608885

AC087294.2	BPGM	0.99906066	1.32E-06
RP11-498J9.2	CBL	0.889548111	0.017625694
AP001062.8	BPGM	0.991972917	9.64E-05
RP11-93O14.2	CBL	0.854643664	0.030157119
RP11-455F5.3	BPGM	0.999026741	1.42E-06
RP11-78A19.3	CBL	0.850414527	0.031890172
Z69720.3	CBL	0.895629108	0.015771454
RP11-326C3.2	BPGM	0.988360504	0.000202428
AP006621.8	BPGM	0.984617733	0.000353101
JHDM1D-AS1	BPGM	0.999992957	7.44E-11
RP11-20I23.6	BPGM	0.996655594	1.68E-05
RP11-160E2.19	BPGM	0.943387602	0.004716725
AC005786.7	BPGM	0.991710603	0.000102786
AC005944.2	BPGM	0.965749652	0.00173954
CTB-191K22.5	BPGM	0.977414631	0.000759388
RP11-20I23.8	BPGM	0.999790641	6.57E-08
CDC37L1-AS1	BPGM	0.995055092	3.66E-05
RP5-1142A6.10	BPGM	0.98622245	0.000283424
RP11-556I13.1	BPGM	0.999988102	2.12E-10
AC011558.5	BRCA1	-0.968768279	0.001447899
AC024028.1	BRWD3	0.939602167	0.005361685
RP11-498J9.2	BRWD3	0.935168365	0.006168463
RP11-34P13.14	BRWD3	0.986048008	0.000290629
RP11-93O14.2	BRWD3	0.936412454	0.00593651
RP11-78A19.3	BRWD3	0.932058392	0.006767282
Z69720.3	BRWD3	0.945501299	0.004374229
RP11-473M20.11	ADRB2	0.89511097	0.015925584
CTA-315H11.2	BSG	-0.929526362	0.007274796
RP11-680G24.6	ADRB2	0.842465803	0.03527077
LA16c-359F1.1	ADRB2	0.897338553	0.015268065
RP11-66D17.5	BSG	0.968420582	0.001480143
AC024028.1	CD86	0.892963361	0.016572112
RP11-126K1.8	BSG	0.984480995	0.00035939
RP11-34P13.14	CD86	0.896736676	0.015444407
RP3-438O4.4	BSG	0.994976393	3.78E-05
NUP50-AS1	BSG	0.993389343	6.54E-05
RP11-473M20.11	CD86	0.834676415	0.038738529
PSMD5-AS1	BSG	0.982065157	0.000479603
LA16c-359F1.1	CD86	0.836342327	0.037984061
TOPORS-AS1	BSG	0.980433231	0.000570542
AC087294.2	BSG	0.999717381	1.20E-07
AP001062.8	BSG	0.998057075	5.66E-06
RP11-455F5.3	BSG	0.998613438	2.88E-06
RP11-326C3.2	BSG	0.980047213	0.000593199
AP006621.8	BSG	0.981583925	0.000505605
JHDM1D-AS1	BSG	0.997676523	8.09E-06
RP11-20I23.6	BSG	0.994030999	5.33E-05
RP11-160E2.19	BSG	0.92967372	0.007244769
AC005786.7	BSG	0.993472475	6.38E-05
AC005944.2	BSG	0.973294396	0.001060261
CTB-191K22.5	BSG	0.988770212	0.000188454
RP11-20I23.8	BSG	0.997751297	7.58E-06
CDC37L1-AS1	BSG	0.994518455	4.50E-05
RP5-1142A6.10	BSG	0.984166057	0.000374086
RP11-556I13.1	BSG	0.997619924	8.49E-06
CTA-315H11.2	BTBD11	-0.935585805	0.006090149
PSMD5-AS1	BTBD11	0.923360889	0.008585258
RP11-326C3.2	BTBD11	0.942605867	0.004846599
AP006621.8	BTBD11	0.931836791	0.006810984
RP11-473M20.11	GPR162	0.88494544	0.019094807
RP11-160E2.19	BTBD11	0.984407874	0.000362776
RP11-680G24.6	GPR162	0.818679569	0.046335003
LA16c-359F1.1	GPR162	0.883451286	0.019583828

AC011558.5	BTBD11	0.974601883	0.000959405
RP11-118G23.2	BTBD3	0.965830256	0.001731409
RP11-680G24.6	BTBD3	0.943155533	0.0047551
AC024028.1	BTG1	0.971976589	0.001166964
RP11-473M20.11	BTG1	0.994919827	3.86E-05
RP11-498J9.2	BTK	0.980968056	0.000539876
RP11-473M20.11	DOCK6	0.905719514	0.012914194
RP11-34P13.14	BTK	0.983480926	0.000407066
RP11-680G24.6	DOCK6	0.861945608	0.027272933
LA16c-359F1.1	DOCK6	0.904917477	0.013131224
RP11-93O14.2	BTK	0.9856113	0.000309063
RP11-485G7.6	BTK	0.949348765	0.003783347
RP11-78A19.3	BTK	0.97527342	0.000909547
RP11-680G24.6	BTK	0.919591591	0.009438328
LA16c-359F1.1	BTK	0.933876118	0.006413993
Z69720.3	BTK	0.992670484	8.04E-05
RP11-473M20.11	CIB2	0.875253937	0.022371747
CTA-315H11.2	BTN3A1	-0.971111278	0.001239783
RP11-680G24.6	CIB2	0.837183121	0.03760592
LA16c-359F1.1	CIB2	0.891148859	0.017127991
RP11-126K1.8	BTN3A1	0.94442267	0.004547425
CCDC144NL-AS1	CXorf65	-0.846662241	0.033466028
RP3-438O4.4	BTN3A1	0.966381835	0.001676274
RP11-66D17.5	CXorf65	0.880483454	0.020572708
RP11-126K1.8	CXorf65	0.905031857	0.013100166
NUP50-AS1	BTN3A1	0.955782454	0.00288956
PSMD5-AS1	BTN3A1	0.987669919	0.000227109
TOPORS-AS1	BTN3A1	0.960485615	0.002311231
AC087294.2	BTN3A1	0.982970057	0.000432559
AP001062.8	BTN3A1	0.966928597	0.001622491
RP11-455F5.3	BTN3A1	0.987428671	0.000236064
RP11-326C3.2	BTN3A1	0.999834735	4.10E-08
AP006621.8	BTN3A1	0.992408757	8.62E-05
JHDM1D-AS1	BTN3A1	0.988150565	0.000209782
RP11-20I23.6	BTN3A1	0.992184708	9.14E-05
RP11-160E2.19	BTN3A1	0.981410449	0.000515145
AC005786.7	BTN3A1	0.976831636	0.000798942
AC005944.2	BTN3A1	0.960309405	0.002331752
AC005944.2	CXorf65	0.903384255	0.013550969
CTB-191K22.5	CXorf65	0.915819135	0.010331357
CTB-191K22.5	BTN3A1	0.946405655	0.00423156
RP11-20I23.8	BTN3A1	0.989700068	0.000158587
CDC37L1-AS1	BTN3A1	0.971836314	0.00117862
RP5-1142A6.10	BTN3A1	0.986019011	0.000291836
RP5-1033H22.2	CDK15	0.913594479	0.010876323
RP3-339A18.6	CDK15	0.829423328	0.041163018
RP11-21J18.1	CDK15	0.879747155	0.020821647
RP11-298J23.8	CDK15	0.878892026	0.021112558
RP11-556I13.1	BTN3A1	0.988152155	0.000209726
CTA-315H11.2	BTN3A2	-0.962868191	0.002042559
RP11-66D17.5	BTN3A2	0.936878761	0.00585069
RP11-126K1.8	BTN3A2	0.968551118	0.001467996
RP3-438O4.4	BTN3A2	0.987034081	0.000251083
NUP50-AS1	BTN3A2	0.975190856	0.000915606
RP11-473M20.11	ZG16B	0.894759231	0.016030626
PSMD5-AS1	BTN3A2	0.985245083	0.000324955
RP11-680G24.6	ZG16B	0.833520576	0.039266076
LA16c-359F1.1	ZG16B	0.886814733	0.018491354
TOPORS-AS1	BTN3A2	0.967852511	0.00153358
AC087294.2	BTN3A2	0.995486734	3.05E-05
AP001062.8	BTN3A2	0.985836692	0.000299478
RP11-455F5.3	BTN3A2	0.997076267	1.28E-05
RP11-326C3.2	BTN3A2	0.991438525	0.000109635

AP006621.8	BTN3A2	0.988141642	0.000210097
JHDM1D-AS1	BTN3A2	0.998184642	4.94E-06
RP11-20I23.6	BTN3A2	0.994292823	4.88E-05
RP11-160E2.19	BTN3A2	0.951621893	0.003454049
AC005786.7	BTN3A2	0.98450317	0.000358367
AC005944.2	BTN3A2	0.963532908	0.001970525
CTB-191K22.5	BTN3A2	0.969820586	0.001352452
RP11-20I23.8	BTN3A2	0.998160359	5.07E-06
CDC37L1-AS1	BTN3A2	0.991080737	0.000118975
RP5-1142A6.10	BTN3A2	0.98155679	0.000507091
RP11-556I13.1	BTN3A2	0.998181115	4.96E-06
CTA-315H11.2	BTN3A3	-0.938351373	0.00558368
PSMD5-AS1	BTN3A3	0.919646129	0.009425705
RP11-326C3.2	BTN3A3	0.938883041	0.005488779
AP006621.8	BTN3A3	0.928341596	0.00751841
RP11-473M20.11	RASGEF1A	0.897760933	0.015144897
RP11-160E2.19	BTN3A3	0.982801072	0.000441161
RP11-680G24.6	RASGEF1A	0.85319947	0.030743789
LA16c-359F1.1	RASGEF1A	0.905879955	0.012870989
AC011558.5	BTN3A3	0.974393838	0.000975119
CTA-315H11.2	BTNL3	-0.945741186	0.004336159
RP11-66D17.5	BTNL3	0.950244931	0.003651764
RP11-126K1.8	BTNL3	0.97284269	0.001096265
RP3-438O4.4	BTNL3	0.993698542	5.94E-05
NUP50-AS1	BTNL3	0.983525845	0.000404861
RP11-473M20.11	KIAA1598	0.906482599	0.012709328
PSMD5-AS1	BTNL3	0.982245427	0.000470039
RP11-680G24.6	KIAA1598	0.84950293	0.03226972
LA16c-359F1.1	KIAA1598	0.900216996	0.01443822
TOPORS-AS1	BTNL3	0.980052526	0.000592884
AC024028.1	ADAMTS14	0.812029912	0.049678381
RP11-498J9.2	ADAMTS14	0.913632011	0.010867016
RP11-34P13.14	ADAMTS14	0.861278524	0.027530718
AC087294.2	BTNL3	0.998911004	1.78E-06
AP001062.8	BTNL3	0.991493281	0.000108239
RP11-455F5.3	BTNL3	0.998826662	2.06E-06
RP11-680G24.6	ADAMTS14	0.849643353	0.032211116
RP11-326C3.2	BTNL3	0.988496209	0.000197745
Z69720.3	ADAMTS14	0.874822163	0.0225235
BX322559.3	ADAMTS14	-0.846373642	0.033588715
AP006621.8	BTNL3	0.984286293	0.000368441
JHDM1D-AS1	BTNL3	0.999999212	9.32E-13
RP11-20I23.6	BTNL3	0.996735909	1.60E-05
RP11-160E2.19	BTNL3	0.943792601	0.00465012
AC005786.7	BTNL3	0.991761865	0.000101521
RP11-473M20.11	GGTA1	0.899002433	0.014785649
AC005944.2	BTNL3	0.965172813	0.001798278
RP11-680G24.6	GGTA1	0.833623818	0.039218819
LA16c-359F1.1	GGTA1	0.890868377	0.017214704
CTB-191K22.5	BTNL3	0.976773127	0.000802966
RP11-20I23.8	BTNL3	0.999768356	8.05E-08
CDC37L1-AS1	BTNL3	0.995258828	3.37E-05
RP5-1142A6.10	BTNL3	0.986392451	0.000276488
RP11-556I13.1	BTNL3	1	0
CTA-315H11.2	BTNL8	-0.953048866	0.003254864
RP11-473M20.11	TGFBR3	0.914254779	0.010713155
RP11-66D17.5	BTNL8	0.941976716	0.004952379
RP11-680G24.6	TGFBR3	0.849123995	0.032428115
LA16c-359F1.1	TGFBR3	0.898966702	0.014795931
RP11-126K1.8	BTNL8	0.968699386	0.00145426
RP3-438O4.4	BTNL8	0.989396104	0.000168068
NUP50-AS1	BTNL8	0.979687598	0.0006147
PSMD5-AS1	BTNL8	0.986017432	0.000291901

TOPORS-AS1	BTNL8	0.977954364	0.000723658
RP11-485G7.6	PCYOX1	0.898045995	0.015062042
RP11-473M20.11	PCYOX1	0.856514013	0.029405281
AC087294.2	BTNL8	0.997438692	9.83E-06
AP001062.8	BTNL8	0.988179924	0.000208746
RP11-455F5.3	BTNL8	0.99840957	3.79E-06
RP11-326C3.2	BTNL8	0.993334066	6.65E-05
AP006621.8	BTNL8	0.988575593	0.00019503
JHDM1D-AS1	BTNL8	0.999343411	6.47E-07
RP11-20I23.6	BTNL8	0.998010887	5.93E-06
RP11-160E2.19	BTNL8	0.954899739	0.003005183
AC005786.7	BTNL8	0.990784486	0.000126997
RP11-473M20.11	BCAR3	0.897431007	0.015241064
AC005944.2	BTNL8	0.966937993	0.001621575
RP11-680G24.6	BCAR3	0.866265329	0.025631524
LA16c-359F1.1	BCAR3	0.909479691	0.011920031
CTB-191K22.5	BTNL8	0.972303805	0.001139996
RP11-20I23.8	BTNL8	0.999592882	2.49E-07
CDC37L1-AS1	BTNL8	0.99175924	0.000101585
RP5-1142A6.10	BTNL8	0.988889982	0.000184463
RP11-556I13.1	BTNL8	0.999341193	6.51E-07
AC011558.5	BUB1	-0.931539113	0.006869905
RP11-34P13.14	BZW1P2	0.92712544	0.007772545
RP11-93O14.2	BZW1P2	0.942625712	0.004843281
RP11-78A19.3	BZW1P2	0.921515427	0.008998017
RP11-680G24.6	BZW1P2	0.972705546	0.001107314
LA16c-359F1.1	BZW1P2	0.948721944	0.003876742
RP11-473M20.11	KRT79	0.909367255	0.0119492
Z69720.3	BZW1P2	0.931855002	0.006807387
RP11-680G24.6	KRT79	0.860540104	0.027817412
LA16c-359F1.1	KRT79	0.904445111	0.013259862
RP11-498J9.2	C10orf11	0.951919839	0.003411979
RP11-34P13.14	C10orf11	0.958058987	0.002601685
RP11-93O14.2	C10orf11	0.949372552	0.003779825
RP11-78A19.3	C10orf11	0.926475748	0.007909994
Z69720.3	C10orf11	0.973287873	0.001060777
AC024028.1	C10orf128	0.996478472	1.86E-05
RP11-473M20.11	HDAC9	0.898782662	0.014848941
RP11-498J9.2	C10orf128	0.975546081	0.00088968
RP11-680G24.6	HDAC9	0.878506638	0.021244296
LA16c-359F1.1	HDAC9	0.903392798	0.013548612
RP11-34P13.14	C10orf128	0.951322727	0.003496546
RP11-93O14.2	C10orf128	0.93026828	0.007124233
RP11-473M20.11	C10orf128	0.979708999	0.00061341
RP11-78A19.3	C10orf128	0.938037434	0.005640091
Z69720.3	C10orf128	0.947218466	0.004105314
AC011558.5	C10orf54	0.967912216	0.00152792
RP11-160E2.19	C10orf78	-0.93147862	0.006881909
AC011558.5	C10orf78	-0.956064248	0.00285312
AC024028.1	ABCC3	0.903314718	0.013570157
CCDC144NL-AS1	C11orf21	-0.92209865	0.008866554
CTA-315H11.2	C11orf21	-0.99042628	0.000137045
RP3-438O4.4	C11orf21	0.924025267	0.008438971
PSMD5-AS1	C11orf21	0.95997912	0.002370456
RP11-473M20.11	ABCC3	0.844578229	0.034356712
AC087294.2	C11orf21	0.944558086	0.0045255
LA16c-359F1.1	ABCC3	0.876052299	0.022092443
AP001062.8	C11orf21	0.918156521	0.009773424
AC024028.1	PRR5L	0.892167537	0.016814831
RP11-455F5.3	C11orf21	0.952459148	0.003336475
RP11-34P13.14	PRR5L	0.902301189	0.013851316
RP11-326C3.2	C11orf21	0.981072458	0.000533987
AP006621.8	C11orf21	0.96866647	0.001457304

RP11-473M20.11	PRR5L	0.833646427	0.039208473
JHDM1D-AS1	C11orf21	0.956271964	0.002826405
LA16c-359F1.1	PRR5L	0.856111477	0.029566333
RP11-20I23.6	C11orf21	0.958769655	0.002514867
RP11-160E2.19	C11orf21	0.9778236	0.000732236
AC005786.7	C11orf21	0.930723275	0.007032658
AC005944.2	C11orf21	0.917432194	0.009944713
RP11-20I23.8	C11orf21	0.957619701	0.002656075
CDC37L1-AS1	C11orf21	0.937205169	0.00579098
RP11-473M20.11	ITGB3	0.884756151	0.019156432
RP5-1142A6.10	C11orf21	0.947147031	0.004116334
RP11-680G24.6	ITGB3	0.908651088	0.0121358
RP11-556I13.1	C11orf21	0.956350738	0.002816306
CTA-315H11.2	C11orf66	-0.959072959	0.002478257
RP11-66D17.5	C11orf66	0.92803067	0.007582991
RP11-126K1.8	C11orf66	0.965960151	0.001718346
RP3-438O4.4	C11orf66	0.969097037	0.001417734
NUP50-AS1	C11orf66	0.972908246	0.001091003
PSMD5-AS1	C11orf66	0.996921081	1.42E-05
RP11-473M20.11	C1QTNF4	0.906414512	0.012727543
TOPORS-AS1	C11orf66	0.963063018	0.002021314
RP11-680G24.6	C1QTNF4	0.84434798	0.034455793
LA16c-359F1.1	C1QTNF4	0.89861156	0.014898306
AC087294.2	C11orf66	0.988391456	0.000201355
AP001062.8	C11orf66	0.97996492	0.000598086
RP11-455F5.3	C11orf66	0.992583617	8.23E-05
RP11-326C3.2	C11orf66	0.996661892	1.67E-05
AP006621.8	C11orf66	0.998389043	3.89E-06
JHDM1D-AS1	C11orf66	0.989388305	0.000168315
RP11-473M20.11	CD22	0.89780305	0.015132641
RP11-20I23.6	C11orf66	0.994018092	5.36E-05
RP11-680G24.6	CD22	0.839557204	0.036547786
LA16c-359F1.1	CD22	0.8940205	0.016252319
RP11-160E2.19	C11orf66	0.97398903	0.001006057
AC005786.7	C11orf66	0.982802116	0.000441108
AC005944.2	C11orf66	0.979199392	0.000644498
CTB-191K22.5	C11orf66	0.966098441	0.001704492
RP11-20I23.8	C11orf66	0.991818301	0.000100136
CDC37L1-AS1	C11orf66	0.971843196	0.001178047
RP11-473M20.11	RND1	0.897353424	0.015263721
RP5-1142A6.10	C11orf66	0.988962662	0.000182062
RP11-680G24.6	RND1	0.852824767	0.030896876
LA16c-359F1.1	RND1	0.908595022	0.012150467
RP11-556I13.1	C11orf66	0.989285841	0.000171575
CTD-2139B15.2	C11orf74	0.946734689	0.004180228
RP11-77G23.2	C11orf82	0.934375242	0.006318603
CTD-2541M15.3	C11orf82	0.923033966	0.008657691
CTA-315H11.2	C11orf91	-0.945741186	0.004336159
RP11-66D17.5	C11orf91	0.950244931	0.003651764
RP11-126K1.8	C11orf91	0.97284269	0.001096265
RP3-438O4.4	C11orf91	0.993698542	5.94E-05
NUP50-AS1	C11orf91	0.983525845	0.000404861
PSMD5-AS1	C11orf91	0.982245427	0.000470039
TOPORS-AS1	C11orf91	0.980052526	0.000592884
AC087294.2	C11orf91	0.998911004	1.78E-06
AP001062.8	C11orf91	0.991493281	0.000108239
RP11-473M20.11	COL9A3	0.870147502	0.024197742
RP11-455F5.3	C11orf91	0.998826662	2.06E-06
RP11-680G24.6	COL9A3	0.824557306	0.043470133
LA16c-359F1.1	COL9A3	0.868851372	0.024672068
RP11-326C3.2	C11orf91	0.988496209	0.000197745
AP006621.8	C11orf91	0.984286293	0.000368441
JHDM1D-AS1	C11orf91	0.999999212	9.32E-13

RP11-20I23.6	C11orf91	0.996735909	1.60E-05
RP11-160E2.19	C11orf91	0.943792601	0.00465012
AC005786.7	C11orf91	0.991761865	0.000101521
RP11-473M20.11	GPR84	0.908634278	0.012140196
AC005944.2	C11orf91	0.965172813	0.001798278
RP11-680G24.6	GPR84	0.839995548	0.036353966
LA16c-359F1.1	GPR84	0.894212901	0.016194438
CTB-191K22.5	C11orf91	0.976773127	0.000802966
RP11-20I23.8	C11orf91	0.999768356	8.05E-08
CDC37L1-AS1	C11orf91	0.995258828	3.37E-05
RP5-1142A6.10	C11orf91	0.986392451	0.000276488
RP11-93O14.2	SPATS2L	0.910099606	0.01175983
RP11-485G7.6	SPATS2L	0.829212689	0.04126167
RP11-556I13.1	C11orf91	1	0
RP11-78A19.3	SPATS2L	0.906737389	0.012641277
RP11-498J9.2	C12orf75	0.924622007	0.00830862
RP11-34P13.14	C12orf75	0.976853074	0.000797469
RP11-93O14.2	C12orf75	0.946555621	0.004208126
RP11-78A19.3	C12orf75	0.928778464	0.007428125
RP11-680G24.6	C12orf75	0.944868666	0.004475411
Z69720.3	C12orf75	0.953867686	0.003143196
RP11-473M20.11	LEP	0.906039035	0.012828219
AC024028.1	C13orf18	0.995154485	3.52E-05
RP11-680G24.6	LEP	0.838342044	0.037087615
LA16c-359F1.1	LEP	0.894474763	0.016115821
RP11-498J9.2	C13orf18	0.946268647	0.004253025
RP11-34P13.14	C13orf18	0.924287999	0.008381458
RP11-473M20.11	C13orf18	0.995634011	2.86E-05
LLNLR-284B4.1	C13orf38	-0.919368286	0.009490097
AC011558.5	C13orf38	-0.949850236	0.003709435
RP11-77G23.2	C14orf106	0.990885819	0.000124224
AC011558.5	C14orf143	-0.923358006	0.008585895
RP11-34P13.14	C14orf43	0.948045742	0.003978749
RP11-93O14.2	C14orf43	0.953063733	0.003252819
RP11-78A19.3	C14orf43	0.931446288	0.006888329
RP11-680G24.6	C14orf43	0.965405344	0.001774484
LA16c-359F1.1	C14orf43	0.935179174	0.006166429
Z69720.3	C14orf43	0.942418244	0.004878027
RP11-473M20.11	PACSIN3	0.894793666	0.016020328
CTA-315H11.2	C14orf45	-0.949385833	0.003777859
RP11-680G24.6	PACSIN3	0.868743472	0.024711753
LA16c-359F1.1	PACSIN3	0.903664927	0.013473653
RP11-66D17.5	C14orf45	0.946563449	0.004206904
RP11-126K1.8	C14orf45	0.971608189	0.001197699
RP3-438O4.4	C14orf45	0.991802433	0.000100525
NUP50-AS1	C14orf45	0.981988966	0.000483675
PSMD5-AS1	C14orf45	0.984215558	0.000371757
TOPORS-AS1	C14orf45	0.97896258	0.000659204
RP11-473M20.11	HOXA9	0.876634027	0.021889982
AC087294.2	C14orf45	0.99843687	3.66E-06
RP11-680G24.6	HOXA9	0.85432153	0.030287515
AP001062.8	C14orf45	0.990299163	0.000140703
RP11-455F5.3	C14orf45	0.99889231	1.84E-06
RP11-34P13.14	RUNX2	0.815931908	0.047703383
RP11-118G23.2	RUNX2	0.829808262	0.04098302
RP11-680G24.6	RUNX2	0.84258219	0.035220115
RP3-339A18.6	RUNX2	0.885933535	0.018774669
RP11-326C3.2	C14orf45	0.990799426	0.000126586
AP006621.8	C14orf45	0.986517367	0.000271447
JHDM1D-AS1	C14orf45	0.999865963	2.69E-08
RP11-20I23.6	C14orf45	0.997325763	1.07E-05
RP11-160E2.19	C14orf45	0.948635006	0.003889784
AC005786.7	C14orf45	0.991224479	0.000115177

AC005944.2	C14orf45	0.965975246	0.001716831
CTB-191K22.5	C14orf45	0.974933967	0.000934584
RP11-20I23.8	C14orf45	0.99983902	3.89E-08
CTD-2531D15.5	ZNF862	-0.88853772	0.017943365
CTA-315H11.2	ZNF862	-0.831078427	0.040391701
AC011558.5	ZNF862	0.816502839	0.047417527
CDC37L1-AS1	C14orf45	0.993648087	6.04E-05
RP5-1142A6.10	C14orf45	0.987362949	0.000238534
RP11-556I13.1	C14orf45	0.999862749	2.83E-08
RP11-498J9.2	C14orf49	0.946965002	0.00414448
RP11-485G7.6	DENND1B	0.82061981	0.045379898
RP11-473M20.11	DENND1B	0.871415019	0.023738128
RP11-34P13.14	C14orf49	0.930216533	0.007134685
RP11-680G24.6	DENND1B	0.90004684	0.014486654
LA16c-359F1.1	DENND1B	0.861531662	0.027432761
RP11-93O14.2	C14orf49	0.955998091	0.002861654
RP11-498J9.2	MAFB	0.815753361	0.047792942
RP11-485G7.6	MAFB	0.882254811	0.019979689
RP11-485G7.6	C14orf49	0.963190941	0.002007424
RP11-78A19.3	C14orf49	0.955516024	0.002924223
RP11-680G24.6	C14orf49	0.918259778	0.009749124
LA16c-359F1.1	C14orf49	0.96476772	0.001840103
Z69720.3	C14orf49	0.959189025	0.002464317
RP11-473M20.11	ADCY6	0.902383816	0.013828291
CTA-315H11.2	C14orf64	-0.95436224	0.00307668
RP11-680G24.6	ADCY6	0.86090148	0.027676931
LA16c-359F1.1	ADCY6	0.905840215	0.012881684
RP11-66D17.5	C14orf64	0.941576708	0.005020214
RP11-126K1.8	C14orf64	0.969084676	0.001418862
RP3-438O4.4	C14orf64	0.988305615	0.000204338
NUP50-AS1	C14orf64	0.979702265	0.000613816
PSMD5-AS1	C14orf64	0.987515281	0.000232829
TOPORS-AS1	C14orf64	0.976941668	0.0007914
RP11-473M20.11	TMEM163	0.908012683	0.012303317
AC087294.2	C14orf64	0.997241111	1.14E-05
RP11-680G24.6	TMEM163	0.848881441	0.032529695
LA16c-359F1.1	TMEM163	0.898448817	0.014945334
AP001062.8	C14orf64	0.988076184	0.000212418
RP11-455F5.3	C14orf64	0.998464996	3.53E-06
RP11-498J9.2	PIK3C2B	0.907814023	0.012355672
RP11-326C3.2	C14orf64	0.994039553	5.32E-05
RP11-93O14.2	PIK3C2B	0.866423447	0.02557236
AP006621.8	C14orf64	0.989933454	0.000151493
RP11-78A19.3	PIK3C2B	0.873383267	0.023032749
Z69720.3	PIK3C2B	0.888034769	0.018102509
JHDM1D-AS1	C14orf64	0.999068982	1.30E-06
RP11-20I23.6	C14orf64	0.998170021	5.02E-06
RP11-160E2.19	C14orf64	0.95689065	0.002747567
AC005786.7	C14orf64	0.990602155	0.000132064
AC005944.2	C14orf64	0.968709642	0.001453312
RP11-473M20.11	TMEM108	0.91171939	0.011346193
CTB-191K22.5	C14orf64	0.972539012	0.001120805
RP11-680G24.6	TMEM108	0.843187312	0.034957299
LA16c-359F1.1	TMEM108	0.89479388	0.016020264
RP11-20I23.8	C14orf64	0.999502107	3.72E-07
CDC37L1-AS1	C14orf64	0.990809441	0.000126311
RP5-1142A6.10	C14orf64	0.989282709	0.000171675
RP11-556I13.1	C14orf64	0.999058531	1.33E-06
CTD-2531D15.5	C14orf79	0.944862396	0.00447642
AC011558.5	C15orf42	-0.981277645	0.000522509
RP11-473M20.11	C16orf54	0.952464081	0.003335788
CTD-2139B15.2	C16orf59	0.963172089	0.002009468
CTD-2541M15.3	C16orf73	0.947054322	0.004130657

AC024028.1	C16orf74	0.959930992	0.002376122
RP11-473M20.11	C16orf74	0.989001469	0.000180786
RP3-337H4.8	C16orf75	0.927511912	0.007691339
CTD-2139B15.2	C16orf75	0.959998729	0.00236815
RP11-473M20.11	SLC6A13	0.912199409	0.011224991
RP11-91K8.5	C16orf75	0.957704092	0.002645583
RP11-680G24.6	SLC6A13	0.85604429	0.029593255
LA16c-359F1.1	SLC6A13	0.904691342	0.013192731
CTA-315H11.2	C17orf39	-0.929018609	0.007378722
RP11-66D17.5	C17orf39	0.964732576	0.001843754
RP11-126K1.8	C17orf39	0.982570135	0.000453053
RP3-438O4.4	C17orf39	0.995890574	2.53E-05
NUP50-AS1	C17orf39	0.991180272	0.000116338
PSMD5-AS1	C17orf39	0.97878082	0.000670603
RP11-473M20.11	ASGR2	0.862909961	0.026902305
TOPORS-AS1	C17orf39	0.981621113	0.000503571
LA16c-359F1.1	ASGR2	0.865186102	0.026037074
AC087294.2	C17orf39	0.999497364	3.79E-07
AC024028.1	CD109	0.83087355	0.040486808
RP11-498J9.2	CD109	0.908222759	0.01224807
AP001062.8	C17orf39	0.996980537	1.37E-05
RP11-455F5.3	C17orf39	0.998299919	4.33E-06
RP11-485G7.6	CD109	0.874246075	0.022726735
RP11-118G23.2	CD109	0.890692684	0.017269127
RP11-326C3.2	C17orf39	0.979647643	0.000617112
AP006621.8	C17orf39	0.979210497	0.000643812
JHDM1D-AS1	C17orf39	0.998049712	5.70E-06
RP11-20I23.6	C17orf39	0.993270742	6.78E-05
RP11-160E2.19	C17orf39	0.926768283	0.00784796
AC005786.7	C17orf39	0.992317583	8.83E-05
AC005944.2	C17orf39	0.966832033	0.001631927
CTB-191K22.5	C17orf39	0.985289636	0.000323001
RP11-20I23.8	C17orf39	0.997658815	8.22E-06
RP11-473M20.11	ELN	0.914673258	0.010610362
CDC37L1-AS1	C17orf39	0.994980815	3.77E-05
RP11-680G24.6	ELN	0.848926379	0.032510864
LA16c-359F1.1	ELN	0.898846162	0.01483064
RP5-1142A6.10	C17orf39	0.982553389	0.000453921
RP11-556I13.1	C17orf39	0.998010405	5.93E-06
RP11-118G23.2	C17orf57	0.922579498	0.008758874
CTA-315H11.2	C17orf58	0.926231468	0.007961978
RP11-160E2.19	C17orf58	-0.941650044	0.005007743
AC011558.5	C17orf58	-0.949346925	0.00378362
AC011558.5	C17orf71	-0.942494605	0.004865224
CTA-315H11.2	C17orf76	-0.937972399	0.005651812
AC024028.1	TMEM87B	0.823981989	0.043746785
RP11-498J9.2	TMEM87B	0.855295124	0.029894228
RP11-66D17.5	C17orf76	0.961496958	0.002195186
RP11-93O14.2	TMEM87B	0.881643031	0.020183564
RP11-118G23.2	TMEM87B	0.83386884	0.03910677
RP11-78A19.3	TMEM87B	0.856378266	0.029459546
RP11-680G24.6	TMEM87B	0.915813209	0.01033279
LA16c-359F1.1	TMEM87B	0.833315531	0.039360012
Z69720.3	TMEM87B	0.900264875	0.014424605
RP11-126K1.8	C17orf76	0.983752621	0.000393822
RP3-438O4.4	C17orf76	0.994101195	5.21E-05
NUP50-AS1	C17orf76	0.989736997	0.000157453
PSMD5-AS1	C17orf76	0.982262931	0.000469115
TOPORS-AS1	C17orf76	0.976644436	0.000811854
RP11-473M20.11	DUSP15	0.91335994	0.010934568
AC087294.2	C17orf76	0.999531242	3.30E-07
RP11-680G24.6	DUSP15	0.852877108	0.03087547
LA16c-359F1.1	DUSP15	0.901473132	0.014083089

AP001062.8	C17orf76	0.996607458	1.72E-05
RP11-455F5.3	C17orf76	0.999150476	1.08E-06
RP11-326C3.2	C17orf76	0.981918889	0.000487434
AP006621.8	C17orf76	0.98283557	0.000439398
JHDM1D-AS1	C17orf76	0.998526688	3.25E-06
RP11-20I23.6	C17orf76	0.993313604	6.69E-05
RP11-473M20.11	CCNA1	0.901448556	0.014089996
RP11-160E2.19	C17orf76	0.930800407	0.007017191
RP11-680G24.6	CCNA1	0.870211804	0.024174324
AC005786.7	C17orf76	0.990257898	0.000141901
AC005944.2	C17orf76	0.968748698	0.001449705
CTB-191K22.5	C17orf76	0.984853278	0.000342397
RP11-20I23.8	C17orf76	0.998292014	4.37E-06
CDC37L1-AS1	C17orf76	0.994236207	4.97E-05
RP5-1142A6.10	C17orf76	0.981290204	0.00052181
RP11-556I13.1	C17orf76	0.998475763	3.48E-06
RP5-1142A6.10	C18orf45	-0.9258616	0.008041003
CTA-315H11.2	C19orf29OS	-0.945741186	0.004336159
RP11-66D17.5	C19orf29OS	0.950244931	0.003651764
RP11-126K1.8	C19orf29OS	0.97284269	0.001096265
RP3-438O4.4	C19orf29OS	0.993698542	5.94E-05
NUP50-AS1	C19orf29OS	0.983525845	0.000404861
RP11-485G7.6	PDP1	0.91409074	0.010753579
RP11-473M20.11	PDP1	0.907787617	0.012362639
PSMD5-AS1	C19orf29OS	0.982245427	0.000470039
RP11-680G24.6	PDP1	0.89400673	0.016256465
LA16c-359F1.1	PDP1	0.903450104	0.01353281
TOPORS-AS1	C19orf29OS	0.980052526	0.000592884
AC087294.2	C19orf29OS	0.998911004	1.78E-06
AP001062.8	C19orf29OS	0.991493281	0.000108239
RP11-455F5.3	C19orf29OS	0.998826662	2.06E-06
RP11-326C3.2	C19orf29OS	0.988496209	0.000197745
AP006621.8	C19orf29OS	0.984286293	0.000368441
RP11-473M20.11	SGK3	0.895892238	0.015693457
JHDM1D-AS1	C19orf29OS	0.999999212	9.32E-13
RP11-680G24.6	SGK3	0.881781954	0.020137181
LA16c-359F1.1	SGK3	0.898126782	0.015038601
RP11-20I23.6	C19orf29OS	0.996735909	1.60E-05
AC024028.1	TMEM51	0.886453263	0.018607321
RP11-160E2.19	C19orf29OS	0.943792601	0.00465012
RP11-34P13.14	TMEM51	0.890945661	0.01719079
AC005786.7	C19orf29OS	0.991761865	0.000101521
AC005944.2	C19orf29OS	0.965172813	0.001798278
RP11-473M20.11	TMEM51	0.826736447	0.04242968
CTB-191K22.5	C19orf29OS	0.976773127	0.000802966
LA16c-359F1.1	TMEM51	0.820695486	0.045342833
RP11-20I23.8	C19orf29OS	0.999768356	8.05E-08
CDC37L1-AS1	C19orf29OS	0.995258828	3.37E-05
RP5-1142A6.10	C19orf29OS	0.986392451	0.000276488
RP11-556I13.1	C19orf29OS	1	0
CCDC144NL-AS1	C19orf39	0.943475071	0.004702301
RP3-438O4.4	C19orf40	-0.924927499	0.008242271
RP11-473M20.11	TSPAN15	0.902606563	0.013766311
TOPORS-AS1	C19orf40	-0.953678385	0.003168842
RP11-680G24.6	TSPAN15	0.837021059	0.037678668
LA16c-359F1.1	TSPAN15	0.895062304	0.015940097
AC087294.2	C19orf40	-0.927950319	0.007599724
RP11-498J9.2	ARHGAP22	0.897218918	0.015303039
RP11-34P13.14	ARHGAP22	0.812341031	0.049519544
RP11-93O14.2	ARHGAP22	0.886135715	0.018709484
RP11-455F5.3	C19orf40	-0.928258819	0.007535577
RP11-78A19.3	ARHGAP22	0.874277404	0.02271566
Z69720.3	ARHGAP22	0.875846146	0.022164404

RP11-326C3.2	C19orf40	-0.958710468	0.002522042
AP006621.8	C19orf40	-0.922145215	0.008856098
JHDM1D-AS1	C19orf40	-0.938774308	0.005508123
RP11-20I23.6	C19orf40	-0.952498193	0.00333104
RP11-160E2.19	C19orf40	-0.955106856	0.002977853
RP11-473M20.11	IGJ	0.913115004	0.010995556
AC005786.7	C19orf40	-0.943037853	0.004774617
RP11-680G24.6	IGJ	0.848932994	0.032508092
LA16c-359F1.1	IGJ	0.900120522	0.014465671
RP11-20I23.8	C19orf40	-0.939101689	0.005449983
CDC37L1-AS1	C19orf40	-0.929400063	0.007300579
RP5-1142A6.10	C19orf40	-0.960897614	0.002263601
RP11-556I13.1	C19orf40	-0.939062595	0.00545691
CTA-315H11.2	C19orf45	-0.955073704	0.002982219
RP11-66D17.5	C19orf45	0.939762195	0.005333601
RP11-473M20.11	SLC2A6	0.871916578	0.023557417
RP11-126K1.8	C19orf45	0.968567129	0.00146651
RP11-680G24.6	SLC2A6	0.816588611	0.047374651
LA16c-359F1.1	SLC2A6	0.878214401	0.021344453
RP3-438O4.4	C19orf45	0.987823528	0.000221497
AC024028.1	ANO6	0.884506855	0.019237738
RP11-498J9.2	ANO6	0.91378487	0.010829152
NUP50-AS1	C19orf45	0.978768309	0.000671392
PSMD5-AS1	C19orf45	0.987218299	0.000244014
RP11-485G7.6	ANO6	0.821706746	0.044848891
RP11-473M20.11	ANO6	0.815269684	0.048035946
TOPORS-AS1	C19orf45	0.976585001	0.000815974
AC087294.2	C19orf45	0.996948722	1.40E-05
LA16c-359F1.1	ANO6	0.875354998	0.022336299
AP001062.8	C19orf45	0.987517266	0.000232755
RP11-498J9.2	TGFBI	0.858554413	0.028595341
RP11-93O14.2	TGFBI	0.82181839	0.044794513
RP11-455F5.3	C19orf45	0.998319103	4.24E-06
RP11-78A19.3	TGFBI	0.815318353	0.048011469
Z69720.3	TGFBI	0.839699303	0.036484901
RP11-34P13.14	PPTC7	0.863493931	0.02667904
RP11-93O14.2	PPTC7	0.833290454	0.039371507
RP11-326C3.2	C19orf45	0.994308808	4.85E-05
AP006621.8	C19orf45	0.989898965	0.000152531
LA16c-359F1.1	PPTC7	0.847014859	0.033316413
CTC-1337H24.3	PPTC7	-0.816103045	0.047617613
JHDM1D-AS1	C19orf45	0.998957487	1.63E-06
RP11-20I23.6	C19orf45	0.997900761	6.61E-06
RP11-160E2.19	C19orf45	0.95706116	0.002726032
AC005786.7	C19orf45	0.989922969	0.000151808
AC005944.2	C19orf45	0.967333122	0.001583258
RP11-473M20.11	HOPX	0.913532602	0.010891675
CTB-191K22.5	C19orf45	0.971266806	0.001226534
RP11-680G24.6	HOPX	0.849286032	0.032360339
LA16c-359F1.1	HOPX	0.899887514	0.014532076
RP11-20I23.8	C19orf45	0.999334848	6.63E-07
CDC37L1-AS1	C19orf45	0.990250783	0.000142108
RP5-1142A6.10	C19orf45	0.988821155	0.000186751
RP11-556I13.1	C19orf45	0.998947917	1.66E-06
CTD-2139B15.2	C19orf48	0.920779068	0.009165341
RP11-66D17.5	C19orf62	0.986372199	0.00027731
RP11-473M20.11	CXCL1	0.886438306	0.018612127
RP11-126K1.8	C19orf62	0.988625894	0.00019332
RP11-680G24.6	CXCL1	0.822310903	0.044554997
LA16c-359F1.1	CXCL1	0.887286109	0.018340649
RP3-438O4.4	C19orf62	0.991401558	0.000110582
AC024028.1	IKZF2	0.909755794	0.01184855
RP11-34P13.14	IKZF2	0.867262154	0.025259627

NUP50-AS1	C19orf62	0.999434518	4.80E-07
CTD-2139B15.2	IKZF2	-0.885837497	0.018805671
RP11-91K8.5	IKZF2	-0.831341406	0.040269774
PSMD5-AS1	C19orf62	0.973101198	0.001075587
TOPORS-AS1	C19orf62	0.979066601	0.000652724
AC087294.2	C19orf62	0.99388236	5.60E-05
AP001062.8	C19orf62	0.998786202	2.21E-06
RP11-455F5.3	C19orf62	0.990768606	0.000127435
RP11-473M20.11	ATXN1	0.904072795	0.01336168
RP11-326C3.2	C19orf62	0.962544727	0.002078073
RP11-680G24.6	ATXN1	0.833281721	0.039375511
LA16c-359F1.1	ATXN1	0.876020059	0.022103689
AP006621.8	C19orf62	0.969306995	0.001398634
JHDM1D-AS1	C19orf62	0.987949835	0.000216935
RP11-20I23.6	C19orf62	0.985160463	0.000328684
AC005786.7	C19orf62	0.991756294	0.000101658
AC005944.2	C19orf62	0.976910675	0.000793521
CTB-191K22.5	C19orf62	0.996909291	1.43E-05
RP11-20I23.8	C19orf62	0.988430332	0.000200011
CDC37L1-AS1	C19orf62	0.988335745	0.000203289
RP5-1142A6.10	C19orf62	0.977840522	0.000731123
RP11-556I13.1	C19orf62	0.987844398	0.00022074
AC024028.1	C1orf113	0.94810075	0.003970402
RP11-498J9.2	C1orf113	0.975272838	0.000909589
RP11-34P13.14	C1orf113	0.918352458	0.009727337
RP11-473M20.11	MSC	0.913207529	0.010972498
RP11-93O14.2	C1orf113	0.938016125	0.00564393
RP11-680G24.6	MSC	0.849261927	0.032370417
LA16c-359F1.1	MSC	0.900351354	0.014400031
RP11-485G7.6	C1orf113	0.954536601	0.003053396
RP11-78A19.3	C1orf113	0.937986899	0.005649197
Z69720.3	C1orf113	0.944072334	0.004604388
RP11-34P13.14	C1orf150	0.94268559	0.004833275
RP11-680G24.6	C1orf150	0.938237156	0.005604172
Z69720.3	C1orf150	0.925691403	0.008077494
RP11-473M20.11	TNFAIP6	0.910260313	0.011718471
LLNLR-284B4.1	C1orf198	-0.947290113	0.004094275
RP11-680G24.6	TNFAIP6	0.844375558	0.034443919
LA16c-359F1.1	TNFAIP6	0.897794399	0.015135158
AC011558.5	C1orf198	-0.92410159	0.008422244
RP11-126K1.8	C1orf216	-0.91964266	0.009426507
AC024028.1	C1orf228	0.969599641	0.001372225
RP11-473M20.11	C1orf228	0.995327523	3.27E-05
CTD-2139B15.2	C1orf51	0.993408575	6.50E-05
RP11-91K8.5	C1orf51	0.918245934	0.00975238
RP11-473M20.11	CAPN8	0.914673258	0.010610362
CTA-315H11.2	C1orf97	0.925349755	0.008150988
RP11-680G24.6	CAPN8	0.848926379	0.032510864
LA16c-359F1.1	CAPN8	0.898846162	0.01483064
RP11-160E2.19	C1orf97	-0.948146457	0.003963473
AC011558.5	C1orf97	-0.941988813	0.004950334
RP11-770G2.2	C1QA	0.949168901	0.003810032
AC005943.6	C1QA	0.92804361	0.007580298
RP11-770G2.2	C1QB	0.942930088	0.004792525
RP11-770G2.2	C1QC	0.949071244	0.003824559
AC005943.6	C1QC	0.924997448	0.008227115
AC024028.1	C1QTNF4	0.958041742	0.00260381
RP11-498J9.2	C1QTNF4	0.999496927	3.80E-07
RP11-34P13.14	C1QTNF4	0.972809114	0.001098965
RP11-93O14.2	C1QTNF4	0.982256434	0.000469458
RP11-485G7.6	C1QTNF4	0.971886802	0.001174418
RP11-78A19.3	C1QTNF4	0.982169267	0.000474068
RP11-473M20.11	CD300C	0.868272133	0.02488546

Z69720.3	C1QTNF4	0.985573653	0.000310678
LA16c-359F1.1	CD300C	0.86410833	0.026445094
CTA-315H11.2	C1QTNF6	-0.9228985	0.008687792
RP11-326C3.2	C1QTNF6	0.917279595	0.009980984
RP11-160E2.19	C1QTNF6	0.966381044	0.001676353
AC011558.5	C1QTNF6	0.965736152	0.001740904
RP11-770G2.2	C2	0.94559407	0.004359487
AC005943.6	C2	0.923633268	0.008525136
RP11-473M20.11	VCAN	0.898846228	0.014830621
CTA-315H11.2	C2orf108	-0.943433796	0.004709105
RP11-680G24.6	VCAN	0.840637249	0.036071103
LA16c-359F1.1	VCAN	0.899818141	0.014551875
RP11-66D17.5	C2orf108	0.953514413	0.003191139
RP11-126K1.8	C2orf108	0.975862311	0.00086691
RP3-438O4.4	C2orf108	0.994263519	4.93E-05
NUP50-AS1	C2orf108	0.985434039	0.000316706
PSMD5-AS1	C2orf108	0.982163598	0.000474369
TOPORS-AS1	C2orf108	0.979779881	0.000609146
RP11-473M20.11	INHBA	0.914551082	0.010640323
AC087294.2	C2orf108	0.999363311	6.08E-07
RP11-680G24.6	INHBA	0.849282482	0.032361823
LA16c-359F1.1	INHBA	0.899271729	0.014708273
AP001062.8	C2orf108	0.993113898	7.10E-05
RP11-455F5.3	C2orf108	0.999146769	1.09E-06
RP11-326C3.2	C2orf108	0.986887244	0.000256789
AP006621.8	C2orf108	0.983855024	0.000388886
JHDM1D-AS1	C2orf108	0.999903623	1.39E-08
RP11-20I23.6	C2orf108	0.996079572	2.30E-05
RP11-160E2.19	C2orf108	0.940224077	0.005252947
AC005786.7	C2orf108	0.991712723	0.000102734
CTB-31O20.6	SYTL2	-0.836707521	0.0378196
CTA-315H11.2	SYTL2	-0.834799256	0.038682658
AC005944.2	C2orf108	0.965953295	0.001719034
RP11-91K8.5	SYTL2	-0.869597267	0.024398568
CTB-191K22.5	C2orf108	0.97905639	0.000653359
RP11-20I23.8	C2orf108	0.999636651	1.98E-07
CDC37L1-AS1	C2orf108	0.995366342	3.22E-05
RP5-1142A6.10	C2orf108	0.985308899	0.000322157
RP11-485G7.6	BRWD3	0.830528171	0.040647377
RP11-473M20.11	BRWD3	0.894565354	0.016088667
RP11-556I13.1	C2orf108	0.999892329	1.74E-08
RP11-680G24.6	BRWD3	0.896268958	0.015582114
LA16c-359F1.1	BRWD3	0.87218034	0.023462648
CTA-315H11.2	C2orf111	-0.94061553	0.005185063
RP11-126K1.8	C2orf111	0.95026798	0.00364841
RP3-438O4.4	C2orf111	0.928232473	0.007541045
NUP50-AS1	C2orf111	0.953890057	0.003140172
PSMD5-AS1	C2orf111	0.993298399	6.72E-05
TOPORS-AS1	C2orf111	0.926918724	0.00781615
AC087294.2	C2orf111	0.959903839	0.002379322
AP001062.8	C2orf111	0.955884543	0.002876332
RP11-455F5.3	C2orf111	0.966876072	0.00162762
RP11-326C3.2	C2orf111	0.977404402	0.000760073
AP006621.8	C2orf111	0.990966756	0.000122031
JHDM1D-AS1	C2orf111	0.957831151	0.002629825
RP11-485G7.6	ZMAT3	0.892109178	0.016832696
RP11-473M20.11	ZMAT3	0.864510182	0.026292609
RP11-20I23.6	C2orf111	0.970517548	0.001291009
RP11-680G24.6	ZMAT3	0.915610841	0.010381805
LA16c-359F1.1	ZMAT3	0.9003334	0.014405131
RP11-160E2.19	C2orf111	0.974110519	0.000996721
AC005786.7	C2orf111	0.958082476	0.002598792
AC005944.2	C2orf111	0.986828857	0.000259076

CTB-191K22.5	C20orf111	0.951105959	0.003527497
RP11-20I23.8	C20orf111	0.963380319	0.001986948
CDC37L1-AS1	C20orf111	0.931698432	0.006838339
RP11-473M20.11	NRIP3	0.893383947	0.016444523
RP5-1142A6.10	C20orf111	0.971622365	0.001196509
RP11-680G24.6	NRIP3	0.863188798	0.026795589
LA16c-359F1.1	NRIP3	0.908699219	0.012123215
RP11-556I13.1	C20orf111	0.95758456	0.00266045
AC024028.1	C20orf112	0.986875724	0.00025724
RP11-498J9.2	C20orf112	0.980258603	0.000580737
RP11-34P13.14	C20orf112	0.984206817	0.000372167
RP11-93O14.2	C20orf112	0.96009539	0.002356795
RP11-473M20.11	C20orf112	0.952786364	0.003291069
RP11-78A19.3	C20orf112	0.959013229	0.002485446
Z69720.3	C20orf112	0.964829887	0.001833654
RP11-680G24.6	CA5B	0.883495326	0.01956933
LA16c-359F1.1	CA5B	0.913934293	0.010792201
AC024028.1	C20orf117	0.955149009	0.002972306
RP11-498J9.2	C20orf117	0.971992397	0.001165654
RP11-34P13.14	C20orf117	0.995097686	3.60E-05
RP11-93O14.2	C20orf117	0.958532124	0.002543723
RP11-78A19.3	C20orf117	0.948224083	0.003951719
Z69720.3	C20orf117	0.985480968	0.000314673
RP11-473M20.11	PRKCE	0.90163471	0.014037718
RP3-337H4.8	C21orf58	0.960621608	0.002295455
RP11-680G24.6	PRKCE	0.865573732	0.025891063
LA16c-359F1.1	PRKCE	0.90742184	0.012459343
CTD-2139B15.2	C21orf63	0.930327048	0.007112373
RP11-91K8.5	C21orf63	0.971978579	0.001166799
CTA-315H11.2	C21orf7	-0.956892872	0.002747285
PSMD5-AS1	C21orf7	0.936224299	0.005971311
RP11-326C3.2	C21orf7	0.95637728	0.002812907
AP006621.8	C21orf7	0.94519061	0.004423778
RP11-473M20.11	MYCN	0.909232922	0.011984094
RP11-20I23.6	C21orf7	0.919439545	0.009473562
RP11-680G24.6	MYCN	0.857254107	0.029110262
LA16c-359F1.1	MYCN	0.902868079	0.013693714
RP11-160E2.19	C21orf7	0.989075604	0.000178362
RP5-1142A6.10	C21orf7	0.92144291	0.009014428
AC011558.5	C21orf7	0.964008956	0.001919722
RP11-473M20.11	C21orf91	0.921965179	0.008896556
RP11-66D17.5	C22orf25	0.985913739	0.000296237
RP11-126K1.8	C22orf25	0.995221957	3.42E-05
RP11-473M20.11	CYP1A1	0.914486947	0.010656067
RP3-438O4.4	C22orf25	0.965887426	0.001725654
RP11-680G24.6	CYP1A1	0.849521751	0.032261863
LA16c-359F1.1	CYP1A1	0.898998052	0.01478691
NUP50-AS1	C22orf25	0.988587823	0.000194614
PSMD5-AS1	C22orf25	0.94938211	0.00377841
TOPORS-AS1	C22orf25	0.941420017	0.00504691
AC087294.2	C22orf25	0.970421836	0.001299363
AP001062.8	C22orf25	0.987076703	0.000249438
RP11-455F5.3	C22orf25	0.967512144	0.001566046
RP11-473M20.11	MMP2	0.911776658	0.0113317
RP11-326C3.2	C22orf25	0.921843871	0.008923867
RP11-680G24.6	MMP2	0.847850797	0.03296299
LA16c-359F1.1	MMP2	0.899620605	0.014608322
AP006621.8	C22orf25	0.942689813	0.00483257
JHDM1D-AS1	C22orf25	0.959520622	0.002424706
RP11-20I23.6	C22orf25	0.949829338	0.003712501
AC005786.7	C22orf25	0.959088484	0.00247639
AC005944.2	C22orf25	0.957630926	0.002654678
CTB-191K22.5	C22orf25	0.990504186	0.000134828

RP11-473M20.11	ELOVL7	0.910381033	0.011687449
RP11-20I23.8	C22orf25	0.959714778	0.002401659
RP11-680G24.6	ELOVL7	0.852132105	0.031180812
LA16c-359F1.1	ELOVL7	0.900290582	0.014417298
CDC37L1-AS1	C22orf25	0.958762129	0.002515779
LL21NC02-21A1.1	C22orf25	0.920188201	0.009300687
RP5-1142A6.10	C22orf25	0.935992024	0.00601441
RP11-556I13.1	C22orf25	0.95926536	0.002455171
AC024028.1	C22orf36	0.919591906	0.009438255
RP11-498J9.2	C22orf36	0.989628376	0.000160798
RP11-473M20.11	IL1A	0.914011954	0.010773021
RP11-34P13.14	C22orf36	0.959463901	0.002431459
RP11-680G24.6	IL1A	0.849884775	0.032110479
LA16c-359F1.1	IL1A	0.899648323	0.014600395
RP11-93O14.2	C22orf36	0.981201922	0.00052673
RP11-485G7.6	C22orf36	0.981417186	0.000514773
RP11-78A19.3	C22orf36	0.97514539	0.00091895
Z69720.3	C22orf36	0.985146499	0.000329301
RP4-784A16.3	C2orf43	0.944577326	0.004522389
RP11-77G23.2	C2orf43	0.988646694	0.000192615
RP11-473M20.11	CD300E	0.913219401	0.010969542
CTA-315H11.2	C2orf55	-0.9448487	0.004478623
RP11-680G24.6	CD300E	0.847959401	0.032917204
LA16c-359F1.1	CD300E	0.899040071	0.014774823
RP11-66D17.5	C2orf55	0.951890055	0.003416173
RP11-126K1.8	C2orf55	0.973581886	0.001037656
RP3-438O4.4	C2orf55	0.992930948	7.48E-05
NUP50-AS1	C2orf55	0.985026792	0.000334617
PSMD5-AS1	C2orf55	0.984573226	0.000355142
TOPORS-AS1	C2orf55	0.981026348	0.000536584
AC087294.2	C2orf55	0.999150341	1.08E-06
AP001062.8	C2orf55	0.992104323	9.33E-05
RP11-455F5.3	C2orf55	0.999179195	1.01E-06
RP11-326C3.2	C2orf55	0.989625953	0.000160873
AP006621.8	C2orf55	0.986173502	0.000285436
JHDM1D-AS1	C2orf55	0.999846654	3.53E-08
RP11-485G7.6	IL2RB	0.91272282	0.011093551
RP11-473M20.11	IL2RB	0.90601039	0.012835916
RP11-20I23.6	C2orf55	0.997864929	6.83E-06
RP11-680G24.6	IL2RB	0.880416394	0.020595321
LA16c-359F1.1	IL2RB	0.885809774	0.018814625
RP11-160E2.19	C2orf55	0.947114262	0.004121394
AC005786.7	C2orf55	0.993254939	6.81E-05
AC005944.2	C2orf55	0.969185644	0.001409657
RP11-34P13.14	IRF5	0.898768958	0.014852892
CTB-191K22.5	C2orf55	0.978361499	0.000697271
RP11-20I23.8	C2orf55	0.999967891	1.55E-09
RP11-473M20.11	IRF5	0.872272191	0.023429689
RP11-78A19.3	IRF5	0.911608264	0.011374342
CDC37L1-AS1	C2orf55	0.9943794	4.73E-05
RP5-1142A6.10	C2orf55	0.988781598	0.000188073
RP11-556I13.1	C2orf55	0.999836109	4.03E-08
AC024028.1	C2orf58	0.943915726	0.004629964
RP11-498J9.2	C2orf58	0.989750335	0.000157045
RP11-34P13.14	C2orf58	0.987391054	0.000237476
RP11-93O14.2	C2orf58	0.976339228	0.000833125
RP11-485G7.6	C2orf58	0.944214893	0.004581166
RP11-680G24.6	TRO	0.861782726	0.02733577
LA16c-359F1.1	TRO	0.901777471	0.013997689
RP11-78A19.3	C2orf58	0.968059091	0.001514039
Z69720.3	C2orf58	0.99898542	1.54E-06
CCDC144NL-AS1	C2orf63	0.939070031	0.005455592
CTA-315H11.2	C2orf63	0.961918969	0.002147636

RP11-126K1.8	C2orf63	-0.941784291	0.004984955
RP11-485G7.6	SSH1	0.904377111	0.01327843
RP11-473M20.11	SSH1	0.857559664	0.02898887
PSMD5-AS1	C2orf63	-0.949916701	0.003699692
RP11-680G24.6	SSH1	0.913900709	0.010800501
LA16c-359F1.1	SSH1	0.902762239	0.013723073
AC087294.2	C2orf63	-0.919882361	0.009371123
AP001062.8	C2orf63	-0.920151152	0.009309206
RP11-455F5.3	C2orf63	-0.931119503	0.006953382
RP11-326C3.2	C2orf63	-0.924194799	0.008401838
AP006621.8	C2orf63	-0.95125213	0.003506611
JHDM1D-AS1	C2orf63	-0.920831556	0.009153364
RP11-473M20.11	IL3	0.913213344	0.01097105
RP11-20I23.8	C2orf63	-0.922676347	0.008737264
RP11-680G24.6	IL3	0.853338766	0.03068697
LA16c-359F1.1	IL3	0.901119532	0.014182626
RP11-556I13.1	C2orf63	-0.920502189	0.009228644
CTA-315H11.2	C2orf89	-0.961433314	0.002202402
RP11-66D17.5	C2orf89	0.929483632	0.007283514
RP11-126K1.8	C2orf89	0.960926089	0.002260327
RP3-438O4.4	C2orf89	0.982903505	0.000435937
NUP50-AS1	C2orf89	0.972393741	0.001132639
PSMD5-AS1	C2orf89	0.98790757	0.000218456
TOPORS-AS1	C2orf89	0.973095217	0.001076063
AC087294.2	C2orf89	0.993761385	5.83E-05
AP001062.8	C2orf89	0.981871145	0.000490004
RP11-455F5.3	C2orf89	0.995913863	2.50E-05
RP11-326C3.2	C2orf89	0.997158263	1.21E-05
AP006621.8	C2orf89	0.991246716	0.000114595
JHDM1D-AS1	C2orf89	0.996943614	1.40E-05
RP11-20I23.6	C2orf89	0.997503884	9.34E-06
RP11-160E2.19	C2orf89	0.965989257	0.001715425
RP11-473M20.11	DOCK1	0.909913485	0.011807818
AC005786.7	C2orf89	0.98735672	0.000238768
RP11-680G24.6	DOCK1	0.858683997	0.028544264
LA16c-359F1.1	DOCK1	0.901891496	0.013965757
AC005944.2	C2orf89	0.965987734	0.001715578
CTB-191K22.5	C2orf89	0.964443343	0.001873937
RP11-20I23.8	C2orf89	0.997639598	8.35E-06
CDC37L1-AS1	C2orf89	0.986598196	0.000268209
RP5-1142A6.10	C2orf89	0.98937015	0.00016889
RP11-556I13.1	C2orf89	0.996947084	1.40E-05
RP11-473M20.11	SAG	0.913078499	0.01100466
RP11-498J9.2	C3	0.927486578	0.00769665
RP11-680G24.6	SAG	0.853660931	0.03055575
LA16c-359F1.1	SAG	0.899988614	0.014503245
RP11-485G7.6	C3	0.968880112	0.001437602
RP11-473M20.11	C3orf18	0.940731479	0.005165038
RP11-160E2.19	C3orf25	-0.922500673	0.008776483
AC011558.5	C3orf25	-0.924824193	0.008264679
RP3-337H4.8	C3orf39	0.932407358	0.00669874
RP3-339A18.6	C3orf64	0.926140246	0.007981433
RP11-473M20.11	EEF1A2	0.906163352	0.012794844
RP4-784A16.3	C3orf67	0.946327547	0.00424379
RP11-680G24.6	EEF1A2	0.852720122	0.030939693
LA16c-359F1.1	EEF1A2	0.905744845	0.012907368
RP11-77G23.2	C3orf67	0.963856192	0.001935954
CTA-315H11.2	C4BPA	-0.945741186	0.004336159
RP11-66D17.5	C4BPA	0.950244931	0.003651764
RP11-126K1.8	C4BPA	0.97284269	0.001096265
RP3-438O4.4	C4BPA	0.993698542	5.94E-05
NUP50-AS1	C4BPA	0.983525845	0.000404861
RP11-473M20.11	CALCRL	0.913901614	0.010800277

PSMD5-AS1	C4BPA	0.982245427	0.000470039
RP11-680G24.6	CALCRL	0.850250825	0.031958174
LA16c-359F1.1	CALCRL	0.899583111	0.014619048
TOPORS-AS1	C4BPA	0.980052526	0.000592884
AC087294.2	C4BPA	0.998911004	1.78E-06
AP001062.8	C4BPA	0.991493281	0.000108239
RP11-455F5.3	C4BPA	0.998826662	2.06E-06
RP11-326C3.2	C4BPA	0.988496209	0.000197745
AP006621.8	C4BPA	0.984286293	0.000368441
RP11-473M20.11	IRF8	0.887990917	0.018116417
JHDM1D-AS1	C4BPA	0.999999212	9.32E-13
RP11-680G24.6	IRF8	0.817635222	0.046852924
LA16c-359F1.1	IRF8	0.882483557	0.019903714
RP11-20I23.6	C4BPA	0.996735909	1.60E-05
RP11-160E2.19	C4BPA	0.943792601	0.00465012
AC005786.7	C4BPA	0.991761865	0.000101521
AC005944.2	C4BPA	0.965172813	0.001798278
CTB-191K22.5	C4BPA	0.976773127	0.000802966
RP11-20I23.8	C4BPA	0.999768356	8.05E-08
CDC37L1-AS1	C4BPA	0.995258828	3.37E-05
RP5-1142A6.10	C4BPA	0.986392451	0.000276488
RP11-556I13.1	C4BPA	1	0
AC024028.1	C5AR1	0.969606326	0.001371625
RP11-473M20.11	C5AR1	0.991937419	9.72E-05
AC024028.1	C5orf25	0.990883814	0.000124278
RP11-485G7.6	ANKIB1	0.844231104	0.034506139
RP11-498J9.2	C5orf25	0.951680142	0.003445804
RP11-34P13.14	C5orf25	0.936981436	0.005831875
RP11-680G24.6	ANKIB1	0.870178118	0.024186591
LA16c-359F1.1	ANKIB1	0.863174397	0.026801095
RP11-473M20.11	C5orf25	0.982397135	0.000462064
RP11-78A19.3	C5orf25	0.922928792	0.008681056
CTD-2541M15.3	C5orf33	0.982615898	0.000450684
CTA-315H11.2	C5orf4	-0.925505085	0.008117534
RP11-66D17.5	C5orf4	0.966589986	0.001655697
RP11-126K1.8	C5orf4	0.988417087	0.000200469
RP11-473M20.11	ABCA1	0.911809941	0.011323281
RP3-438O4.4	C5orf4	0.993092692	7.14E-05
RP11-680G24.6	ABCA1	0.869458639	0.02444929
LA16c-359F1.1	ABCA1	0.90602938	0.012830813
NUP50-AS1	C5orf4	0.991445919	0.000109445
PSMD5-AS1	C5orf4	0.97668811	0.000808832
TOPORS-AS1	C5orf4	0.974707267	0.000951493
AC087294.2	C5orf4	0.997491969	9.43E-06
AP001062.8	C5orf4	0.997734495	7.69E-06
RP11-455F5.3	C5orf4	0.996573872	1.76E-05
RP11-473M20.11	AKAP12	0.912553936	0.011135879
RP11-326C3.2	C5orf4	0.973569142	0.001038653
RP11-680G24.6	AKAP12	0.852492249	0.031033029
LA16c-359F1.1	AKAP12	0.902577459	0.013774401
AP006621.8	C5orf4	0.976689651	0.000808725
RP3-337H4.8	PRKACB	-0.889998911	0.01748484
CTD-2139B15.2	PRKACB	-0.916972789	0.010054102
JHDM1D-AS1	C5orf4	0.995020904	3.71E-05
RP11-20I23.6	C5orf4	0.987876801	0.000219567
AC005786.7	C5orf4	0.986863379	0.000257723
AC005944.2	C5orf4	0.964321892	0.001886683
CTB-191K22.5	C5orf4	0.986572526	0.000269235
RP11-473M20.11	MAPK12	0.857599885	0.028972909
RP11-20I23.8	C5orf4	0.994449357	4.61E-05
LA16c-359F1.1	MAPK12	0.851931091	0.031263442
CDC37L1-AS1	C5orf4	0.991219891	0.000115297
RP5-1142A6.10	C5orf4	0.974705395	0.000951634

RP11-556I13.1	C5orf4	0.994942743	3.83E-05
AC024028.1	C5orf62	0.967642577	0.001553565
RP11-498J9.2	C5orf62	0.999110389	1.19E-06
RP11-34P13.14	C5orf62	0.971153657	0.001236166
RP11-93O14.2	C5orf62	0.978481061	0.000689615
RP11-485G7.6	C5orf62	0.96718155	0.001597902
AC024028.1	SEC23A	0.869115453	0.024575071
RP11-473M20.11	C5orf62	0.922791795	0.008711537
RP11-78A19.3	C5orf62	0.981263325	0.000523306
Z69720.3	C5orf62	0.979926706	0.000600362
RP11-485G7.6	SEC23A	0.896575004	0.01549194
RP11-118G23.2	SEC23A	0.842611984	0.035207153
CTA-315H11.2	C6orf105	-0.94156481	0.005022239
RP11-66D17.5	C6orf105	0.953396174	0.003207265
RP11-126K1.8	C6orf105	0.972853191	0.001095421
RP3-438O4.4	C6orf105	0.990492849	0.000135149
AC024028.1	CCNG2	0.847739214	0.033010063
RP11-473M20.11	CCNG2	0.875967681	0.022121967
CTD-2139B15.2	CCNG2	-0.883367769	0.019611337
NUP50-AS1	C6orf105	0.9865323	0.000270847
PSMD5-AS1	C6orf105	0.987672544	0.000227013
TOPORS-AS1	C6orf105	0.982912285	0.00043549
AC087294.2	C6orf105	0.99848073	3.46E-06
AP001062.8	C6orf105	0.991815954	0.000100194
RP11-473M20.11	MFAP2	0.914013109	0.010772736
RP11-455F5.3	C6orf105	0.998669515	2.65E-06
RP11-680G24.6	MFAP2	0.848306927	0.032770894
LA16c-359F1.1	MFAP2	0.898826539	0.014836294
RP11-326C3.2	C6orf105	0.991149189	0.000117159
AC024028.1	AFF4	0.823399935	0.04402751
RP11-34P13.14	AFF4	0.825126294	0.04319733
RP11-473M20.11	AFF4	0.823349891	0.044051685
RP3-337H4.8	AFF4	-0.875208489	0.022387698
AP006621.8	C6orf105	0.988535163	0.00019641
JHDM1D-AS1	C6orf105	0.998535136	3.22E-06
RP11-20I23.6	C6orf105	0.999337115	6.59E-07
RP11-160E2.19	C6orf105	0.953372617	0.003210483
AC005786.7	C6orf105	0.995533159	2.99E-05
AC005944.2	C6orf105	0.975427498	0.000898293
RP11-473M20.11	EMP1	0.901800709	0.013991178
CTB-191K22.5	C6orf105	0.979686562	0.000614763
RP11-680G24.6	EMP1	0.836280197	0.038012074
LA16c-359F1.1	EMP1	0.893458191	0.016422049
RP11-20I23.8	C6orf105	0.999332755	6.68E-07
CDC37L1-AS1	C6orf105	0.991674252	0.000103689
RP5-1142A6.10	C6orf105	0.99309849	7.13E-05
RP11-556I13.1	C6orf105	0.998508097	3.34E-06
AC024028.1	C6orf25	0.98237981	0.000462971
RP11-498J9.2	C6orf25	0.996380079	1.96E-05
RP11-473M20.11	FCRL1	0.914673258	0.010610362
RP11-34P13.14	C6orf25	0.977030181	0.000785359
RP11-680G24.6	FCRL1	0.848926379	0.032510864
LA16c-359F1.1	FCRL1	0.898846162	0.01483064
RP11-93O14.2	C6orf25	0.971730791	0.001187427
RP11-485G7.6	C6orf25	0.945445131	0.004383167
RP11-473M20.11	C6orf25	0.943941215	0.004625796
RP11-78A19.3	C6orf25	0.973741854	0.001025183
Z69720.3	C6orf25	0.977094957	0.000780953
RP11-498J9.2	C6orf27	0.970256959	0.001313817
RP11-473M20.11	EGR4	0.913727367	0.010843389
RP11-34P13.14	C6orf27	0.974020417	0.001003641
RP11-680G24.6	EGR4	0.849623302	0.032219481
LA16c-359F1.1	EGR4	0.898809212	0.014841288

RP11-93O14.2	C6orf27	0.988143013	0.000210049
RP11-485G7.6	C6orf27	0.942688862	0.004832729
RP11-78A19.3	C6orf27	0.974085654	0.000998629
RP11-680G24.6	C6orf27	0.922145915	0.008855941
LA16c-359F1.1	C6orf27	0.931325124	0.006912414
Z69720.3	C6orf27	0.976650561	0.000811429
RP11-473M20.11	FAS	0.875938667	0.022132094
RP4-784A16.3	C7orf10	0.95115189	0.003520928
RP11-680G24.6	FAS	0.860098394	0.02798958
RP11-77G23.2	C7orf10	0.945890447	0.004312553
CTA-315H11.2	C7orf41	-0.962741829	0.002056397
RP11-126K1.8	C7orf41	0.953945653	0.003132664
RP3-438O4.4	C7orf41	0.94890788	0.003848922
NUP50-AS1	C7orf41	0.955635322	0.002908677
PSMD5-AS1	C7orf41	0.99351386	6.30E-05
TOPORS-AS1	C7orf41	0.944984268	0.004456837
RP11-473M20.11	KCNK17	0.913715451	0.01084634
AC087294.2	C7orf41	0.974903031	0.000936883
RP11-680G24.6	KCNK17	0.848027737	0.03288841
LA16c-359F1.1	KCNK17	0.898806767	0.014841993
AP001062.8	C7orf41	0.964845151	0.001832072
RP11-455F5.3	C7orf41	0.981738705	0.000497167
RP11-498J9.2	PLEKHG2	0.895014513	0.015954356
RP11-326C3.2	C7orf41	0.993325603	6.67E-05
RP11-93O14.2	PLEKHG2	0.845461695	0.033977783
AP006621.8	C7orf41	0.996268934	2.09E-05
RP11-78A19.3	PLEKHG2	0.848721642	0.032596699
Z69720.3	PLEKHG2	0.880667856	0.020510586
AC024028.1	IMPA1	0.830564212	0.040630607
RP11-498J9.2	IMPA1	0.857515868	0.029006255
JHDM1D-AS1	C7orf41	0.976912198	0.000793416
RP11-93O14.2	IMPA1	0.902572814	0.013775693
RP11-118G23.2	IMPA1	0.872264608	0.023432409
RP11-78A19.3	IMPA1	0.896499274	0.01551423
RP11-20I23.6	C7orf41	0.983056589	0.000428187
LA16c-359F1.1	IMPA1	0.905077702	0.013087727
Z69720.3	IMPA1	0.875798224	0.022181148
AC024028.1	FAM49A	0.831717551	0.04009568
RP11-498J9.2	FAM49A	0.866634895	0.025493344
RP11-160E2.19	C7orf41	0.978160689	0.000710225
AC005786.7	C7orf41	0.966662421	0.001648566
RP11-118G23.2	FAM49A	0.874591386	0.02260481
RP11-78A19.3	FAM49A	0.914502403	0.010652272
AC005944.2	C7orf41	0.968948728	0.001431303
CTB-191K22.5	C7orf41	0.94732295	0.004089221
Z69720.3	FAM49A	0.874561851	0.022615226
RP11-20I23.8	C7orf41	0.979993863	0.000596365
CDC37L1-AS1	C7orf41	0.951815171	0.003426729
RP5-1142A6.10	C7orf41	0.978176508	0.0007092
RP11-556I13.1	C7orf41	0.976769996	0.000803182
CTA-315H11.2	C7orf43	-0.949341949	0.003784357
RP11-473M20.11	LONRF1	0.881120449	0.020358498
RP11-66D17.5	C7orf43	0.949889282	0.00370371
RP11-680G24.6	LONRF1	0.876619786	0.021894927
LA16c-359F1.1	LONRF1	0.910411313	0.011679674
RP11-126K1.8	C7orf43	0.974694108	0.000952479
RP3-438O4.4	C7orf43	0.991127947	0.000117721
NUP50-AS1	C7orf43	0.984274675	0.000368984
PSMD5-AS1	C7orf43	0.986897877	0.000256374
TOPORS-AS1	C7orf43	0.977857588	0.000730002
AC087294.2	C7orf43	0.998871298	1.91E-06
RP11-473M20.11	AVP	0.913254937	0.010960693
AP001062.8	C7orf43	0.991848887	9.94E-05

RP11-680G24.6	AVP	0.847595924	0.033070559
LA16c-359F1.1	AVP	0.898764224	0.014854257
RP11-455F5.3	C7orf43	0.999485525	3.97E-07
RP11-326C3.2	C7orf43	0.990812527	0.000126227
RP11-485G7.6	LY86	0.877063947	0.021740927
AP006621.8	C7orf43	0.988519021	0.000196963
JHDM1D-AS1	C7orf43	0.999666982	1.66E-07
RP11-20I23.6	C7orf43	0.997622528	8.47E-06
RP11-160E2.19	C7orf43	0.949510984	0.003759359
AC005786.7	C7orf43	0.991789634	0.000100838
AC005944.2	C7orf43	0.970656614	0.001278919
CTB-191K22.5	C7orf43	0.978084321	0.000715182
RP11-20I23.8	C7orf43	0.999954104	3.16E-09
CDC37L1-AS1	C7orf43	0.99296262	7.41E-05
RP5-1142A6.10	C7orf43	0.987975547	0.000216012
RP11-556I13.1	C7orf43	0.999642986	1.91E-07
RP11-34P13.14	C7orf58	0.94153066	0.005028052
RP11-93O14.2	C7orf58	0.927885162	0.007613306
RP11-680G24.6	C7orf58	0.954388208	0.003073207
Z69720.3	C7orf58	0.935740386	0.006061273
RP11-93O14.2	C8orf83	0.927796661	0.007631774
RP11-473M20.11	CYP11A1	0.912636537	0.011115167
RP11-118G23.2	C8orf83	0.917408524	0.009950335
RP11-680G24.6	CYP11A1	0.852820435	0.030898647
LA16c-359F1.1	CYP11A1	0.90332637	0.01356694
RP11-78A19.3	C8orf83	0.924705586	0.008290442
RP11-680G24.6	C8orf83	0.982540022	0.000454615
LA16c-359F1.1	C8orf83	0.980381254	0.000573567
CTA-315H11.2	C9orf133	-0.923564283	0.008540344
RP11-66D17.5	C9orf133	0.967134757	0.001602437
RP11-485G7.6	SLC39A10	0.839173271	0.036717944
RP11-473M20.11	SLC39A10	0.878248738	0.021332673
RP11-126K1.8	C9orf133	0.976953635	0.000790582
RP11-680G24.6	SLC39A10	0.908715106	0.012119062
LA16c-359F1.1	SLC39A10	0.884757243	0.019156076
RP3-438O4.4	C9orf133	0.995741668	2.72E-05
NUP50-AS1	C9orf133	0.992374676	8.70E-05
PSMD5-AS1	C9orf133	0.980025367	0.000594494
TOPORS-AS1	C9orf133	0.987807484	0.00022208
AC087294.2	C9orf133	0.999094677	1.23E-06
AP001062.8	C9orf133	0.99560235	2.90E-05
RP11-473M20.11	UGT1A6	0.914107001	0.010749568
RP11-455F5.3	C9orf133	0.997298951	1.09E-05
RP11-680G24.6	UGT1A6	0.848995763	0.032481799
LA16c-359F1.1	UGT1A6	0.89856865	0.014910699
RP11-326C3.2	C9orf133	0.981770385	0.000495449
RP11-498J9.2	ARRDC4	0.902274633	0.01385872
RP11-34P13.14	ARRDC4	0.887943189	0.01813156
AP006621.8	C9orf133	0.979697146	0.000614124
JHDM1D-AS1	C9orf133	0.997437457	9.84E-06
RP11-20I23.6	C9orf133	0.996554097	1.78E-05
RP11-160E2.19	C9orf133	0.935454118	0.006114802
AC005786.7	C9orf133	0.997574993	8.81E-06
Z69720.3	ARRDC4	0.879141721	0.021027414
BX322559.3	ARRDC4	-0.840077901	0.036317606
RP11-498J9.2	HLA-DQB2	0.840746042	0.036023249
RP11-485G7.6	HLA-DQB2	0.906594549	0.012679406
Z69720.3	HLA-DQB2	0.820629531	0.045375136
AC024028.1	ITPR1	0.869006997	0.024614885
RP11-34P13.14	ITPR1	0.8349453	0.038616284
RP11-473M20.11	ITPR1	0.875901078	0.022145218
RP3-337H4.8	ITPR1	-0.856176348	0.029540351
AC005944.2	C9orf133	0.973036555	0.001080739

RP11-91K8.5	ITPR1	-0.873152023	0.023115096
CTB-191K22.5	C9orf133	0.986070899	0.000289679
RP11-20I23.8	C9orf133	0.997685488	8.03E-06
CDC37L1-AS1	C9orf133	0.995169167	3.49E-05
RP5-1142A6.10	C9orf133	0.99015612	0.000144876
RP11-556I13.1	C9orf133	0.99741515	1.00E-05
RP11-473M20.11	GRIK5	0.911221744	0.011472512
CTA-315H11.2	C9orf153	-0.920777746	0.009165642
RP11-680G24.6	GRIK5	0.837966779	0.037255075
LA16c-359F1.1	GRIK5	0.891280532	0.017087356
RP11-66D17.5	C9orf153	0.953434335	0.003202056
AC024028.1	FAM46A	0.846846101	0.033387977
RP11-498J9.2	FAM46A	0.916516571	0.010163306
RP11-126K1.8	C9orf153	0.97030601	0.001309508
RP3-438O4.4	C9orf153	0.995249439	3.38E-05
RP11-485G7.6	FAM46A	0.860661104	0.027770337
RP11-118G23.2	FAM46A	0.861942666	0.027274067
NUP50-AS1	C9orf153	0.983626271	0.000399954
PSMD5-AS1	C9orf153	0.969025383	0.001424281
TOPORS-AS1	C9orf153	0.987998517	0.000215189
AC087294.2	C9orf153	0.996068431	2.32E-05
AP001062.8	C9orf153	0.990360431	0.000138934
RP11-455F5.3	C9orf153	0.994284649	4.89E-05
RP11-326C3.2	C9orf153	0.978616583	0.000680987
AP006621.8	C9orf153	0.971403156	0.001214976
JHDM1D-AS1	C9orf153	0.996054124	2.33E-05
RP11-473M20.11	GZMB	0.895772109	0.015729042
RP11-20I23.6	C9orf153	0.991751849	0.000101767
RP11-680G24.6	GZMB	0.843591365	0.034782328
LA16c-359F1.1	GZMB	0.905921098	0.012859921
RP11-160E2.19	C9orf153	0.92500953	0.008224499
AC005786.7	C9orf153	0.991194872	0.000115954
AC005944.2	C9orf153	0.952128325	0.003382692
CTB-191K22.5	C9orf153	0.973547159	0.001040374
RP11-20I23.8	C9orf153	0.994991804	3.76E-05
CDC37L1-AS1	C9orf153	0.993160329	7.00E-05
RP11-473M20.11	CSF2	0.91300373	0.011023317
RP5-1142A6.10	C9orf153	0.982652941	0.000448771
RP11-680G24.6	CSF2	0.853810907	0.030494754
LA16c-359F1.1	CSF2	0.902893811	0.013686581
RP11-556I13.1	C9orf153	0.996072328	2.31E-05
MIR210HG	C9orf171	0.917479638	0.009933449
RP11-91K8.5	C9orf171	0.982311652	0.000466549
CTA-315H11.2	C9orf174	-0.950251271	0.003650842
RP11-66D17.5	C9orf174	0.945256822	0.004413196
RP11-126K1.8	C9orf174	0.973250183	0.001063759
RP11-473M20.11	KRT15	0.912329679	0.011192207
RP3-438O4.4	C9orf174	0.989921189	0.000151862
RP11-680G24.6	KRT15	0.852679513	0.030956316
LA16c-359F1.1	KRT15	0.899437467	0.014660749
NUP50-AS1	C9orf174	0.982096394	0.000477939
PSMD5-AS1	C9orf174	0.986168152	0.000285657
TOPORS-AS1	C9orf174	0.977885072	0.000728197
AC087294.2	C9orf174	0.998206755	4.82E-06
AP001062.8	C9orf174	0.990488518	0.000135272
RP11-455F5.3	C9orf174	0.999181585	1.00E-06
RP11-473M20.11	CHDH	0.910623171	0.011625346
RP11-326C3.2	C9orf174	0.991767664	0.000101378
RP11-680G24.6	CHDH	0.842753106	0.035145789
LA16c-359F1.1	CHDH	0.895506945	0.015807729
AP006621.8	C9orf174	0.988489963	0.000197959
AC024028.1	PLA2G15	0.849521056	0.032262153
JHDM1D-AS1	C9orf174	0.999417747	5.08E-07

RP11-34P13.14	PLA2G15	0.881180324	0.020338418
RP11-20I23.6	C9orf174	0.997227746	1.15E-05
RP11-160E2.19	C9orf174	0.950381055	0.003631978
RP11-78A19.3	PLA2G15	0.906491688	0.012706898
LA16c-359F1.1	PLA2G15	0.817343296	0.046998177
AC005786.7	C9orf174	0.990504078	0.000134831
RP5-1033H22.2	GCNT1	0.908260163	0.012238246
AC005944.2	C9orf174	0.967162436	0.001599754
RP11-21J18.1	GCNT1	0.828372539	0.04165625
RP11-298J23.8	GCNT1	0.878624651	0.021203914
RP11-165D6.1	GCNT1	0.902184565	0.013883847
RP11-34P13.14	MAST4	0.857092495	0.029174564
RP11-680G24.6	MAST4	0.823590756	0.043935385
Z69720.3	MAST4	0.842545396	0.035236125
RP3-339A18.6	MAST4	0.838410617	0.037057052
CTB-191K22.5	C9orf174	0.974724877	0.000950175
RP11-20I23.8	C9orf174	0.999585517	2.58E-07
CDC37L1-AS1	C9orf174	0.991344766	0.000112045
RP5-1142A6.10	C9orf174	0.987448485	0.000235322
RP11-556I13.1	C9orf174	0.999395805	5.47E-07
RP11-473M20.11	CH25H	0.910024453	0.011779196
RMRP	C9orf3	-0.918004719	0.009809203
RP11-680G24.6	CH25H	0.847199993	0.033237988
LA16c-359F1.1	CH25H	0.897899669	0.015104545
RP11-66D17.5	C9orf40	0.982564736	0.000453333
RP11-126K1.8	C9orf40	0.989725807	0.000157796
RP3-438O4.4	C9orf40	0.983091338	0.000426437
NUP50-AS1	C9orf40	0.9893068	0.000170905
PSMD5-AS1	C9orf40	0.946672586	0.004189893
TOPORS-AS1	C9orf40	0.960234746	0.002340473
RP11-473M20.11	PTGDS	0.88721172	0.018364393
AC087294.2	C9orf40	0.980685868	0.000555951
RP11-680G24.6	PTGDS	0.845618434	0.033910762
LA16c-359F1.1	PTGDS	0.892669774	0.016661456
AP001062.8	C9orf40	0.99120161	0.000115777
RP11-455F5.3	C9orf40	0.976462593	0.000824494
RP11-326C3.2	C9orf40	0.93331003	0.006523025
AP006621.8	C9orf40	0.943244412	0.004740385
JHDM1D-AS1	C9orf40	0.973139262	0.001072559
RP11-20I23.6	C9orf40	0.96104679	0.002246476
RP11-473M20.11	MED12L	0.907372892	0.012472311
AC005786.7	C9orf40	0.9696244	0.001370002
RP11-680G24.6	MED12L	0.868067792	0.024960948
LA16c-359F1.1	MED12L	0.913911698	0.010797785
AC005944.2	C9orf40	0.946151881	0.00427136
CTB-191K22.5	C9orf40	0.987259108	0.000242461
RP11-20I23.8	C9orf40	0.971680586	0.001191628
CDC37L1-AS1	C9orf40	0.976598083	0.000815067
RP5-1142A6.10	C9orf40	0.945751927	0.004334458
RP11-485G7.6	LIMK1	0.872433061	0.023372017
RP11-473M20.11	LIMK1	0.911839238	0.011315873
RP11-556I13.1	C9orf40	0.973006117	0.00108317
CTD-2541M15.3	C9orf41	0.963740314	0.001948311
CTA-315H11.2	C9orf78	-0.945718806	0.004339704
RP11-66D17.5	C9orf78	0.950754117	0.003578021
RP11-126K1.8	C9orf78	0.973536074	0.001041242
RP3-438O4.4	C9orf78	0.993695196	5.95E-05
RP11-485G7.6	LATS2	0.857930485	0.028841873
NUP50-AS1	C9orf78	0.983860875	0.000388605
PSMD5-AS1	C9orf78	0.98245389	0.000459098
RP11-680G24.6	LATS2	0.825291976	0.043118043
LA16c-359F1.1	LATS2	0.828707289	0.041498823
TOPORS-AS1	C9orf78	0.979752996	0.000610762

AC087294.2	C9orf78	0.999005331	1.48E-06
AP001062.8	C9orf78	0.991811897	0.000100293
RP11-455F5.3	C9orf78	0.998941462	1.68E-06
RP11-326C3.2	C9orf78	0.988310284	0.000204175
AP006621.8	C9orf78	0.984425353	0.000361965
RP11-473M20.11	PXDN	0.91281213	0.011071198
JHDM1D-AS1	C9orf78	0.999997674	8.12E-12
RP11-680G24.6	PXDN	0.848886957	0.032527383
LA16c-359F1.1	PXDN	0.898089053	0.015049546
RP11-20I23.6	C9orf78	0.996621021	1.71E-05
RP11-160E2.19	C9orf78	0.943337853	0.004724939
AC005786.7	C9orf78	0.991663855	0.000103947
AC005944.2	C9orf78	0.965493972	0.001765456
CTB-191K22.5	C9orf78	0.977232513	0.000771637
RP11-20I23.8	C9orf78	0.999774118	7.65E-08
CDC37L1-AS1	C9orf78	0.995210082	3.44E-05
RP5-1142A6.10	C9orf78	0.986145733	0.000286581
RP11-680G24.6	RAB30	0.866177435	0.025664439
LA16c-359F1.1	RAB30	0.905429775	0.012992396
RP11-556I13.1	C9orf78	0.999995115	3.58E-11
AC024028.1	C9orf89	0.974877198	0.000938805
RP11-498J9.2	C9orf89	0.990798791	0.000126604
RP11-34P13.14	C9orf89	0.953376402	0.003209966
RP11-93O14.2	C9orf89	0.952791784	0.003290319
RP11-485G7.6	C9orf89	0.950489631	0.003616233
RP11-473M20.11	C9orf89	0.938986814	0.005470349
RP11-78A19.3	C9orf89	0.954667629	0.003035956
Z69720.3	C9orf89	0.969355863	0.001394206
RP11-66D17.5	CA1	0.977628172	0.000745149
RP11-126K1.8	CA1	0.99711535	1.25E-05
RP3-438O4.4	CA1	0.984721091	0.000348384
NUP50-AS1	CA1	0.993672959	5.99E-05
PSMD5-AS1	CA1	0.971304031	0.001223373
TOPORS-AS1	CA1	0.96018566	0.002346216
AC087294.2	CA1	0.990217828	0.000143068
AP001062.8	CA1	0.997479262	9.52E-06
RP11-455F5.3	CA1	0.988946189	0.000182605
RP11-326C3.2	CA1	0.956351743	0.002816177
AP006621.8	CA1	0.96842952	0.00147931
RP11-473M20.11	SCRN1	0.887578923	0.018247331
JHDM1D-AS1	CA1	0.98436877	0.000364593
RP11-680G24.6	SCRN1	0.856106774	0.029568217
RP11-20I23.6	CA1	0.975332029	0.000905258
AC005786.7	CA1	0.977288799	0.000767841
AC005944.2	CA1	0.966863978	0.001628802
CTB-191K22.5	CA1	0.992824739	7.70E-05
RP11-20I23.8	CA1	0.984172945	0.000373761
CDC37L1-AS1	CA1	0.981452796	0.000512808
RP5-1142A6.10	CA1	0.960387736	0.002322619
RP11-473M20.11	IL6	0.899983472	0.014504711
RP11-556I13.1	CA1	0.98420525	0.000372241
RP11-680G24.6	IL6	0.835333379	0.038440168
LA16c-359F1.1	IL6	0.893682091	0.016354365
CTA-315H11.2	CA4	-0.960973568	0.002254874
RP11-66D17.5	CA4	0.924758208	0.008279007
RP11-126K1.8	CA4	0.956206026	0.002834872
RP3-438O4.4	CA4	0.979755953	0.000610584
NUP50-AS1	CA4	0.969567628	0.001375102
PSMD5-AS1	CA4	0.98797499	0.000216032
RP11-473M20.11	TIE1	0.910690685	0.011608058
TOPORS-AS1	CA4	0.973190121	0.001068519
RP11-680G24.6	TIE1	0.85302892	0.030813423
LA16c-359F1.1	TIE1	0.899236306	0.01471844

AC087294.2	CA4	0.991656183	0.000104138
RP11-473M20.11	ZCCHC11	0.817302298	0.047018592
RP3-337H4.8	ZCCHC11	-0.837912317	0.037279408
AP001062.8	CA4	0.978681123	0.000676897
RP11-91K8.5	ZCCHC11	-0.832944095	0.039530442
AC011558.5	ZCCHC11	0.815395272	0.047972795
RP11-455F5.3	CA4	0.994093407	5.22E-05
RP11-326C3.2	CA4	0.998413981	3.77E-06
AP006621.8	CA4	0.991493279	0.000108239
JHDM1D-AS1	CA4	0.995154505	3.52E-05
RP11-20I23.6	CA4	0.997500194	9.37E-06
RP11-160E2.19	CA4	0.971244787	0.001228405
AC005786.7	CA4	0.986960168	0.000253947
RP11-680G24.6	CRISP3	0.877459599	0.021604182
LA16c-359F1.1	CRISP3	0.912423841	0.011168539
AC005944.2	CA4	0.965964884	0.001717871
CTB-191K22.5	CA4	0.960823154	0.002272173
RP11-20I23.8	CA4	0.996160743	2.21E-05
CDC37L1-AS1	CA4	0.983599394	0.000401264
RP11-34P13.14	TNIK	0.855805775	0.02968892
RP11-118G23.2	TNIK	0.884587356	0.019211465
RP11-680G24.6	TNIK	0.901436946	0.014093259
RP3-339A18.6	TNIK	0.84665069	0.033470934
AC024028.1	PLAU	0.916583137	0.010147337
RP5-1142A6.10	CA4	0.991089547	0.000118741
RP11-556I13.1	CA4	0.995162258	3.50E-05
AC024028.1	CA5B	0.966762394	0.001638748
RP11-498J9.2	CA5B	0.982332084	0.000465475
RP11-473M20.11	PLAU	0.859746164	0.028127232
RP11-34P13.14	CA5B	0.98942664	0.000167103
LA16c-359F1.1	PLAU	0.86815151	0.024930008
RP11-93O14.2	CA5B	0.98077546	0.000550822
RP11-485G7.6	CA5B	0.922778653	0.008714464
RP11-473M20.11	CA5B	0.924307941	0.008377101
RP11-78A19.3	CA5B	0.984784005	0.000345528
Z69720.3	CA5B	0.966272343	0.001687149
RP11-485G7.6	PRDM8	0.867279501	0.025253178
RP11-473M20.11	PRDM8	0.860993345	0.027641273
CTA-315H11.2	CA6	-0.952124176	0.003383274
RP11-680G24.6	PRDM8	0.899833917	0.014547371
LA16c-359F1.1	PRDM8	0.872421227	0.023376257
RP11-66D17.5	CA6	0.943180006	0.004751046
RP11-34P13.14	MITF	0.901755737	0.014003779
RP11-93O14.2	MITF	0.834353442	0.038885603
RP11-118G23.2	MITF	0.844549081	0.034369248
RP11-680G24.6	MITF	0.901410724	0.014100632
Z69720.3	MITF	0.857880316	0.02886174
RP11-126K1.8	CA6	0.96934098	0.001395554
RP3-438O4.4	CA6	0.990061057	0.000147683
NUP50-AS1	CA6	0.980288352	0.000578994
PSMD5-AS1	CA6	0.985578545	0.000310468
TOPORS-AS1	CA6	0.978317157	0.000700121
AC087294.2	CA6	0.997717461	7.81E-06
AP001062.8	CA6	0.988709599	0.00019049
RP11-455F5.3	CA6	0.998544193	3.18E-06
RP11-326C3.2	CA6	0.992750072	7.87E-05
AP006621.8	CA6	0.988066203	0.000212773
JHDM1D-AS1	CA6	0.999510732	3.59E-07
RP11-20I23.6	CA6	0.997914214	6.52E-06
RP11-473M20.11	SV2A	0.902251568	0.013865153
RP11-160E2.19	CA6	0.953455902	0.003199114
RP11-680G24.6	SV2A	0.857210065	0.029127779
LA16c-359F1.1	SV2A	0.901963133	0.013945714

AC005786.7	CA6	0.990995093	0.000121267
AC005944.2	CA6	0.966771906	0.001637816
CTB-191K22.5	CA6	0.972990237	0.001084439
RP11-20I23.8	CA6	0.999694574	1.40E-07
CDC37L1-AS1	CA6	0.992314647	8.84E-05
RP5-1142A6.10	CA6	0.988625508	0.000193333
RP11-473M20.11	RRM2B	0.884013365	0.019399171
RP11-556I13.1	CA6	0.999508925	3.62E-07
RP11-680G24.6	RRM2B	0.905315851	0.013023206
RP11-66D17.5	CAB39L	-0.933366697	0.00651207
LL21NC02-21A1.1	CAB39L	-0.963610028	0.001962251
AC024028.1	CACNB3	0.98375307	0.0003938
RP11-498J9.2	CACNB3	0.996067063	2.32E-05
RP11-34P13.14	CACNB3	0.976635928	0.000812443
RP11-93O14.2	CACNB3	0.969747819	0.001358948
RP11-485G7.6	CACNB3	0.944816752	0.004483765
RP11-473M20.11	MS4A1	0.913587664	0.010878013
RP11-473M20.11	CACNB3	0.94675418	0.004177197
RP11-680G24.6	MS4A1	0.849893791	0.032106724
LA16c-359F1.1	MS4A1	0.900564766	0.014339472
RP11-78A19.3	CACNB3	0.972964074	0.001086531
Z69720.3	CACNB3	0.976928377	0.000792309
RP11-21J18.1	CALB1	0.964727543	0.001844277
RP11-165D6.1	CALB1	0.919890203	0.009369314
AC024028.1	CALB2	0.94023901	0.005250349
RP11-485G7.6	PTPN22	0.868992566	0.024620185
RP11-473M20.11	PTPN22	0.877773531	0.021495975
RP11-498J9.2	CALB2	0.989253023	0.000172626
RP11-680G24.6	PTPN22	0.898485712	0.014934666
LA16c-359F1.1	PTPN22	0.875776134	0.022188869
RP11-34P13.14	CALB2	0.991609296	0.00010531
RP11-93O14.2	CALB2	0.987702939	0.000225897
RP11-498J9.2	AEBP1	0.840989098	0.035916447
RP11-34P13.14	AEBP1	0.899814294	0.014552973
RP11-485G7.6	CALB2	0.945081387	0.004441262
Z69720.3	AEBP1	0.85109879	0.031606669
UBE2Q1-AS1	AEBP1	-0.821443714	0.044977124
CTD-2139B15.2	AEBP1	-0.852353787	0.031089806
RP3-339A18.6	SEPT5	0.815115795	0.048113382
RP11-78A19.3	CALB2	0.979468185	0.000628005
CTD-2139B15.2	SEPT5	-0.835218894	0.038492084
RP11-91K8.5	SEPT5	-0.865618131	0.025874363
LA16c-359F1.1	CALB2	0.918664614	0.009654133
Z69720.3	CALB2	0.993706866	5.93E-05
AC024028.1	CALCRL	0.96395329	0.001925629
RP11-498J9.2	CALCRL	0.999995641	2.85E-11
RP11-34P13.14	CALCRL	0.978965824	0.000659002
RP11-93O14.2	CALCRL	0.98336044	0.000413009
RP11-485G7.6	CALCRL	0.965236493	0.001791746
RP11-680G24.6	SKIL	0.864956963	0.026123568
LA16c-359F1.1	SKIL	0.89689262	0.015398624
RP11-78A19.3	CALCRL	0.983451188	0.000408529
Z69720.3	CALCRL	0.986868119	0.000257537
RP11-498J9.2	CALHM2	0.945142957	0.004431402
RP11-34P13.14	CALHM2	0.934628036	0.006270557
RP11-93O14.2	CALHM2	0.950797612	0.003571756
RP11-485G7.6	CALHM2	0.930152813	0.007147565
RP11-473M20.11	TTC7B	0.899273907	0.014707648
RP11-78A19.3	CALHM2	0.927916386	0.007606796
RP11-680G24.6	TTC7B	0.868141362	0.024933757
LA16c-359F1.1	TTC7B	0.901431648	0.014094749
Z69720.3	CALHM2	0.964037488	0.001916698
AC024028.1	CALN1	0.963812249	0.001940635

RP11-498J9.2	CALN1	0.999994563	4.43E-11
RP11-34P13.14	CALN1	0.978294149	0.000701603
RP11-93O14.2	CALN1	0.98334486	0.000413781
RP11-485G7.6	CALN1	0.966002677	0.00171408
RP11-473M20.11	SYP	0.907773874	0.012366265
RP11-78A19.3	CALN1	0.983718642	0.000395466
RP11-680G24.6	SYP	0.850586448	0.03181883
LA16c-359F1.1	SYP	0.901450818	0.01408936
Z69720.3	CALN1	0.986319116	0.00027947
RP11-118G23.2	CALU	0.944347003	0.004559698
RP11-680G24.6	CALU	0.938457947	0.005564594
LL21NC02-21A1.1	CALU	-0.930768674	0.007023553
AC011558.5	CAMK2D	0.958725919	0.002520168
CTA-315H11.2	CAMK4	-0.947735328	0.004026011
PSMD5-AS1	CAMK4	0.937988513	0.005648907
RP11-326C3.2	CAMK4	0.956533851	0.002792899
AP006621.8	CAMK4	0.946096762	0.004280029
RP11-20I23.6	CAMK4	0.921359157	0.009033401
RP11-160E2.19	CAMK4	0.99054692	0.000133619
RP5-1142A6.10	CAMK4	0.926324629	0.007942133
AC011558.5	CAMK4	0.968323886	0.001489173
AC024028.1	CAMP	0.988744708	0.000189309
RP11-498J9.2	CAMP	0.991052933	0.000119717
RP11-680G24.6	GRAMD1C	0.845608028	0.03391521
LA16c-359F1.1	GRAMD1C	0.894022096	0.016251838
RP11-34P13.14	CAMP	0.966706053	0.001644277
RP11-93O14.2	CAMP	0.958260721	0.002576893
RP11-485G7.6	CAMP	0.935965256	0.006019387
RP11-473M20.11	CAMP	0.958427866	0.00255644
RP11-78A19.3	CAMP	0.962602048	0.002071758
Z69720.3	CAMP	0.966743703	0.001640581
AC024028.1	CAP1	0.922855174	0.008697429
CTA-315H11.2	CAPN10	-0.947904472	0.004000224
RP11-66D17.5	CAPN10	0.940604123	0.005187035
RP11-485G7.6	ZNF148	0.892430585	0.016734416
RP11-473M20.11	ZNF148	0.909912308	0.011808122
RP11-126K1.8	CAPN10	0.967923197	0.00152688
RP11-680G24.6	ZNF148	0.897237128	0.015297713
LA16c-359F1.1	ZNF148	0.897871905	0.015112616
RP3-438O4.4	CAPN10	0.968961091	0.001430169
AC024028.1	PLXNB2	0.909619999	0.01188368
NUP50-AS1	CAPN10	0.978618419	0.000680871
PSMD5-AS1	CAPN10	0.997676809	8.09E-06
TOPORS-AS1	CAPN10	0.96446612	0.001871551
AC087294.2	CAPN10	0.987674754	0.000226931
RP11-473M20.11	PLXNB2	0.845715996	0.033869077
AP001062.8	CAPN10	0.981888882	0.000489049
LA16c-359F1.1	PLXNB2	0.865286167	0.025999344
RP11-455F5.3	CAPN10	0.990812669	0.000126223
RP11-326C3.2	CAPN10	0.992131605	9.26E-05
AP006621.8	CAPN10	0.996787225	1.55E-05
JHDM1D-AS1	CAPN10	0.986780442	0.00026098
RP11-20I23.6	CAPN10	0.993778946	5.79E-05
RP11-160E2.19	CAPN10	0.971655106	0.001193763
RP11-473M20.11	NDST1	0.914463673	0.010661783
AC005786.7	CAPN10	0.98631273	0.00027973
RP11-680G24.6	NDST1	0.852007095	0.031232187
LA16c-359F1.1	NDST1	0.887586693	0.018244858
AC005944.2	CAPN10	0.989562921	0.00016283
CTB-191K22.5	CAPN10	0.974055129	0.001000972
RP11-20I23.8	CAPN10	0.989919824	0.000151903
CDC37L1-AS1	CAPN10	0.971716469	0.001188624
RP5-1142A6.10	CAPN10	0.991544739	0.000106935

RP11-556I13.1	CAPN10	0.986658369	0.000265811
AC024028.1	CAPN2	0.9925501	8.30E-05
RP11-498J9.2	CAPN2	0.959174543	0.002466055
RP11-34P13.14	CAPN2	0.933476656	0.006490838
RP11-473M20.11	CAPN2	0.98696012	0.000253949
RP11-78A19.3	CAPN2	0.930996229	0.006977999
Z69720.3	CAPN2	0.91805918	0.00979636
CCDC144NL-AS1	CAPN3	-0.91856099	0.009678404
CTA-315H11.2	CAPN3	-0.974945475	0.00093373
PSMD5-AS1	CAPN3	0.968256928	0.001495441
AC087294.2	CAPN3	0.936641502	0.005894279
RP11-455F5.3	CAPN3	0.946347085	0.004240729
RP11-326C3.2	CAPN3	0.983488628	0.000406687
AP006621.8	CAPN3	0.975127712	0.000920253
RP11-485G7.6	FCHSD2	0.88360295	0.01953392
RP11-473M20.11	FCHSD2	0.849523572	0.032261102
JHDM1D-AS1	CAPN3	0.945878796	0.004314394
RP11-20I23.6	CAPN3	0.958099458	0.002596702
LA16c-359F1.1	FCHSD2	0.902491565	0.013798292
RP11-160E2.19	CAPN3	0.996530207	1.80E-05
RP11-498J9.2	SLMAP	0.841727609	0.035592851
AC005786.7	CAPN3	0.93116815	0.006943679
RP11-93O14.2	SLMAP	0.896669499	0.015464149
RP11-118G23.2	SLMAP	0.908796679	0.012097752
RP11-78A19.3	SLMAP	0.876414768	0.021966186
AC005944.2	CAPN3	0.932232266	0.006733088
LA16c-359F1.1	SLMAP	0.89013802	0.017441484
Z69720.3	SLMAP	0.875109419	0.022422486
AC024028.1	SPIN1	0.873685849	0.022925209
RP11-20I23.8	CAPN3	0.949709357	0.003730127
RP5-1142A6.10	CAPN3	0.956350935	0.00281628
RP11-556I13.1	CAPN3	0.945862438	0.004316978
RP11-485G7.6	SPIN1	0.876451894	0.021953274
RP11-118G23.2	SPIN1	0.851158385	0.031582034
AC011558.5	CAPN3	0.939137224	0.00544369
CTA-315H11.2	CAPN5	-0.93894629	0.005477543
RP11-66D17.5	CAPN5	0.944880238	0.00447355
RP11-126K1.8	CAPN5	0.980788796	0.00055006
AC024028.1	SEMA6B	0.8542604	0.03031229
RP3-438O4.4	CAPN5	0.951903559	0.003414272
RP11-34P13.14	SEMA6B	0.850953854	0.031666619
RP11-93O14.2	SEMA6B	0.907990549	0.012309144
NUP50-AS1	CAPN5	0.977150255	0.000777201
RP11-78A19.3	SEMA6B	0.900239183	0.01443191
Z69720.3	SEMA6B	0.901288601	0.014134991
PSMD5-AS1	CAPN5	0.996365942	1.98E-05
TOPORS-AS1	CAPN5	0.936383171	0.00594192
AC087294.2	CAPN5	0.976727528	0.00080611
AP001062.8	CAPN5	0.979415346	0.000631231
RP11-485G7.6	GAB2	0.913351425	0.010936686
RP11-455F5.3	CAPN5	0.981371005	0.000517327
RP11-326C3.2	CAPN5	0.973845888	0.001017111
RP11-680G24.6	GAB2	0.828180172	0.041746843
LA16c-359F1.1	GAB2	0.850826096	0.031719508
AP006621.8	CAPN5	0.992454834	8.52E-05
AC024028.1	NSMAF	0.866440296	0.02556606
RP11-498J9.2	NSMAF	0.888043138	0.018099856
JHDM1D-AS1	CAPN5	0.97216217	0.001151631
RP11-93O14.2	NSMAF	0.902601016	0.013767852
RP11-78A19.3	NSMAF	0.876447669	0.021954744
RP11-680G24.6	NSMAF	0.871718416	0.023628736
Z69720.3	NSMAF	0.916140337	0.010253795
RP11-20I23.6	CAPN5	0.976295722	0.00083618

RP11-160E2.19	CAPN5	0.948240309	0.003949265
AC005786.7	CAPN5	0.968370217	0.001484843
AC005944.2	CAPN5	0.993575564	6.18E-05
CTB-191K22.5	CAPN5	0.978167547	0.000709781
RP11-20I23.8	CAPN5	0.976126548	0.000848109
CDC37L1-AS1	CAPN5	0.95366689	0.003170403
RP11-680G24.6	MEX3B	0.84474985	0.034282947
LA16c-359F1.1	MEX3B	0.881783932	0.020136521
RP5-1142A6.10	CAPN5	0.969923133	0.001343323
RP11-556I13.1	CAPN5	0.971894847	0.001173749
AC024028.1	CAPN8	0.964355341	0.001883169
RP11-498J9.2	CAPN8	1	0
RP11-34P13.14	CAPN8	0.978552256	0.000685076
RP11-93O14.2	CAPN8	0.982998398	0.000431125
RP11-473M20.11	PHTF2	0.86092485	0.027667857
RP11-485G7.6	CAPN8	0.965304842	0.001784749
RP11-78A19.3	CAPN8	0.983256999	0.000418145
Z69720.3	CAPN8	0.986539728	0.000270549
CCDC144NL-AS1	CARNS1	-0.927545821	0.007684234
CTA-315H11.2	CARNS1	-0.984146698	0.000374999
RP3-438O4.4	CARNS1	0.93710883	0.005808572
NUP50-AS1	CARNS1	0.923678254	0.008515226
PSMD5-AS1	CARNS1	0.978239561	0.000705123
TOPORS-AS1	CARNS1	0.92916018	0.007349673
AC087294.2	CARNS1	0.960597939	0.002298197
AP001062.8	CARNS1	0.939053476	0.005458526
RP11-455F5.3	CARNS1	0.968365174	0.001485314
RP11-326C3.2	CARNS1	0.993687014	5.97E-05
AP006621.8	CARNS1	0.985226936	0.000325753
JHDM1D-AS1	CARNS1	0.969046246	0.001422373
RP11-20I23.6	CARNS1	0.974615978	0.000958345
RP11-473M20.11	DAP3P1	0.914673258	0.010610362
RP11-160E2.19	CARNS1	0.988838982	0.000186157
RP11-680G24.6	DAP3P1	0.848926379	0.032510864
LA16c-359F1.1	DAP3P1	0.898846162	0.01483064
AC005786.7	CARNS1	0.950621772	0.003597117
RP11-498J9.2	YTHDF3	0.870191138	0.024181849
AC005944.2	CARNS1	0.94110423	0.005100921
RP11-20I23.8	CARNS1	0.971234368	0.001229291
RP11-118G23.2	YTHDF3	0.912545957	0.011137881
RP11-78A19.3	YTHDF3	0.903742967	0.013452194
CDC37L1-AS1	CARNS1	0.946003672	0.004294689
RP5-1142A6.10	CARNS1	0.967372002	0.001579512
Z69720.3	YTHDF3	0.903329807	0.013565992
RP11-556I13.1	CARNS1	0.969048909	0.00142213
CTA-315H11.2	CASC3	-0.965358746	0.00177924
RP11-66D17.5	CASC3	0.926843656	0.007832015
RP11-126K1.8	CASC3	0.961336161	0.00221344
RP3-438O4.4	CASC3	0.979913645	0.00060114
RP11-473M20.11	AHR	0.915992573	0.010289441
NUP50-AS1	CASC3	0.971024261	0.001247226
RP11-680G24.6	AHR	0.858180427	0.028742993
LA16c-359F1.1	AHR	0.901914262	0.013959386
PSMD5-AS1	CASC3	0.990108758	0.000146271
TOPORS-AS1	CASC3	0.969016993	0.001425049
AC087294.2	CASC3	0.992629311	8.13E-05
AP001062.8	CASC3	0.980820244	0.000548267
RP11-455F5.3	CASC3	0.995435396	3.12E-05
RP11-485G7.6	LPCAT2	0.877521835	0.02158271
RP11-326C3.2	CASC3	0.997867478	6.82E-06
AP006621.8	CASC3	0.993362451	6.59E-05
RP11-680G24.6	LPCAT2	0.843774742	0.034703054
LA16c-359F1.1	LPCAT2	0.846476334	0.033545035

JHDM1D-AS1	CASC3	0.995843879	2.59E-05
RP11-20I23.6	CASC3	0.996657094	1.67E-05
RP11-160E2.19	CASC3	0.968640582	0.0014597
AC005786.7	CASC3	0.985270381	0.000323845
AC005944.2	CASC3	0.967711444	0.001546995
CTB-191K22.5	CASC3	0.963640263	0.001959011
RP11-20I23.8	CASC3	0.996804496	1.53E-05
CDC37L1-AS1	CASC3	0.984040332	0.000380034
RP11-680G24.6	TET2	0.857509456	0.029008801
LA16c-359F1.1	TET2	0.895808563	0.01571824
RP5-1142A6.10	CASC3	0.988226801	0.000207096
RP11-556I13.1	CASC3	0.995830778	2.60E-05
AC011558.5	CASC5	-0.98151115	0.000509596
CTA-315H11.2	CASP1	-0.955996365	0.002861877
PSMD5-AS1	CASP1	0.975974211	0.000858923
TOPORS-AS1	CASP1	0.920653832	0.009193947
RP11-473M20.11	TTYH3	0.877574616	0.021564508
AC087294.2	CASP1	0.942442736	0.004873919
LA16c-359F1.1	TTYH3	0.820782563	0.045300202
AP001062.8	CASP1	0.92321709	0.008617082
RP3-339A18.6	SEPT11	0.843618805	0.03477046
RP3-337H4.8	SEPT11	-0.874151472	0.022760193
RP11-455F5.3	CASP1	0.951162668	0.003519387
RP11-326C3.2	CASP1	0.984237901	0.000370708
AP006621.8	CASP1	0.980068587	0.000591933
JHDM1D-AS1	CASP1	0.948041474	0.003979397
RP11-20I23.6	CASP1	0.964385209	0.001880033
RP11-473M20.11	CERCAM	0.901390462	0.01410633
RP11-160E2.19	CASP1	0.997862074	6.85E-06
RP11-680G24.6	CERCAM	0.84752395	0.033100965
LA16c-359F1.1	CERCAM	0.895822288	0.015714173
AC005786.7	CASP1	0.943362795	0.00472082
AC005944.2	CASP1	0.950614054	0.003598232
RP11-20I23.8	CASP1	0.952931387	0.003271042
CDC37L1-AS1	CASP1	0.918255299	0.009750177
RP5-1142A6.10	CASP1	0.96825936	0.001495213
RP11-556I13.1	CASP1	0.947962498	0.003991396
RP11-473M20.11	CFH	0.906050555	0.012825125
AC011558.5	CASP1	0.940281588	0.005242947
RP11-680G24.6	CFH	0.851213482	0.031559266
LA16c-359F1.1	CFH	0.900621668	0.014323347
CTA-315H11.2	CASP5	-0.965052863	0.001810613
RP11-66D17.5	CASP5	0.918348491	0.009728269
RP11-126K1.8	CASP5	0.954389219	0.003073072
RP3-438O4.4	CASP5	0.97461841	0.000958162
NUP50-AS1	CASP5	0.966021728	0.00171217
PSMD5-AS1	CASP5	0.989756594	0.000156854
TOPORS-AS1	CASP5	0.968283973	0.001492908
AC087294.2	CASP5	0.989105349	0.000177394
AP001062.8	CASP5	0.975674448	0.000880402
RP11-455F5.3	CASP5	0.992489106	8.44E-05
RP11-326C3.2	CASP5	0.999478909	4.07E-07
AP006621.8	CASP5	0.993487253	6.35E-05
JHDM1D-AS1	CASP5	0.992871378	7.60E-05
RP11-473M20.11	DUSP3	0.854008682	0.030414407
RP11-20I23.6	CASP5	0.995969254	2.43E-05
RP11-680G24.6	DUSP3	0.840440876	0.036157554
LA16c-359F1.1	DUSP3	0.904479766	0.013250404
RP11-160E2.19	CASP5	0.975599801	0.000885791
AC024028.1	BACH1	0.863802205	0.026561535
AC005786.7	CASP5	0.983618216	0.000400346
AC005944.2	CASP5	0.96617402	0.001696944
CTB-191K22.5	CASP5	0.957228741	0.002704948

RP11-485G7.6	BACH1	0.901207621	0.014157798
RP11-118G23.2	BACH1	0.855851641	0.029670513
RP11-20I23.8	CASP5	0.994220128	5.00E-05
CDC37L1-AS1	CASP5	0.978809275	0.000668812
RP5-1142A6.10	CASP5	0.989694803	0.000158748
RP11-556I13.1	CASP5	0.992862283	7.62E-05
AC011558.5	CAST	-0.960157977	0.002349458
RP11-66D17.5	CAT	0.973045791	0.001080003
RP11-126K1.8	CAT	0.984621928	0.000352909
RP3-438O4.4	CAT	0.967384673	0.001578292
RP11-485G7.6	FAM91A1	0.828257615	0.041710361
RP11-473M20.11	FAM91A1	0.871773342	0.023608957
NUP50-AS1	CAT	0.974779477	0.000946091
RP11-680G24.6	FAM91A1	0.91327136	0.010956605
LA16c-359F1.1	FAM91A1	0.885251027	0.018995521
PSMD5-AS1	CAT	0.924876377	0.008253356
RP11-498J9.2	SPP1	0.893405372	0.016438036
RP11-93O14.2	SPP1	0.854127362	0.03036624
TOPORS-AS1	CAT	0.934212472	0.006349634
RP11-78A19.3	SPP1	0.848292877	0.032776803
Z69720.3	SPP1	0.884649155	0.019191307
AC087294.2	CAT	0.963412061	0.001983526
AP001062.8	CAT	0.978260993	0.00070374
RP11-455F5.3	CAT	0.958978965	0.002489574
AP006621.8	CAT	0.921017935	0.009110898
JHDM1D-AS1	CAT	0.954614917	0.003042966
RP11-473M20.11	H3F3C	0.866589198	0.025510411
RP11-20I23.6	CAT	0.936484722	0.00592317
RP11-680G24.6	H3F3C	0.845720131	0.033867311
LA16c-359F1.1	H3F3C	0.885823191	0.018810291
AC005786.7	CAT	0.945367044	0.004395607
AC005944.2	CAT	0.923131531	0.008636044
CTB-191K22.5	CAT	0.975096049	0.000922587
RP11-20I23.8	CAT	0.952250173	0.003365633
CDC37L1-AS1	CAT	0.959777409	0.002394248
RP11-556I13.1	CAT	0.954443474	0.003065822
AC024028.1	CATSPER1	0.947005935	0.004138143
RP11-473M20.11	SCGN	0.913356473	0.01093543
RP11-498J9.2	CATSPER1	0.99512434	3.56E-05
RP11-680G24.6	SCGN	0.850306482	0.031935047
LA16c-359F1.1	SCGN	0.900669678	0.014309747
RP11-34P13.14	CATSPER1	0.987378479	0.000237949
RP11-93O14.2	CATSPER1	0.988159434	0.000209468
RP11-498J9.2	EMR2	0.909829409	0.011829527
RP11-485G7.6	CATSPER1	0.957383559	0.002685542
RP11-93O14.2	EMR2	0.884965105	0.019088411
RP11-78A19.3	CATSPER1	0.982295774	0.000467385
RP11-78A19.3	EMR2	0.878812066	0.021139859
Z69720.3	EMR2	0.91609015	0.010265896
Z69720.3	CATSPER1	0.994332688	4.81E-05
CTD-2541M15.3	CAV1	0.955476503	0.002929382
AC024028.1	CBL	0.952857702	0.00328121
RP11-34P13.14	CBL	0.940599204	0.005187885
RP11-485G7.6	ADCY3	0.88796361	0.01812508
RP11-473M20.11	CBL	0.937545995	0.005728953
RP3-337H4.8	CBS	0.943115073	0.004761806
RP11-680G24.6	ADCY3	0.814048363	0.048652098
LA16c-359F1.1	ADCY3	0.823446995	0.044004782
CTD-2139B15.2	CBS	0.951039718	0.003536982
RP4-784A16.3	CBWD5	0.919708334	0.009411317
RP11-21J18.1	CBWD5	0.929378787	0.007304927
RP11-165D6.1	CBWD5	0.923601476	0.008532143
CTA-315H11.2	CBX7	-0.932170488	0.006745228

RP11-66D17.5	CBX7	0.93041603	0.007094433
RP11-473M20.11	FAM171A1	0.847350353	0.033174358
RP11-126K1.8	CBX7	0.980980547	0.000539169
RP11-680G24.6	FAM171A1	0.868075759	0.024958003
LA16c-359F1.1	FAM171A1	0.891651731	0.016973052
RP3-438O4.4	CBX7	0.945524001	0.004370619
NUP50-AS1	CBX7	0.96962129	0.001370281
PSMD5-AS1	CBX7	0.988074462	0.00021248
TOPORS-AS1	CBX7	0.93237745	0.006704601
AC087294.2	CBX7	0.971908849	0.001172586
AP001062.8	CBX7	0.975199967	0.000914936
RP11-473M20.11	CPXM1	0.902014174	0.013931441
RP11-455F5.3	CBX7	0.977717455	0.000739236
RP11-680G24.6	CPXM1	0.84266984	0.03518199
LA16c-359F1.1	CPXM1	0.892945508	0.016577539
RP11-326C3.2	CBX7	0.969020685	0.001424711
AP006621.8	CBX7	0.986538313	0.000270606
JHDM1D-AS1	CBX7	0.967595131	0.0015581
RP11-20I23.6	CBX7	0.968419055	0.001480285
RP11-160E2.19	CBX7	0.934972767	0.006205326
AC005786.7	CBX7	0.958289234	0.002573398
RP11-473M20.11	CCL20	0.913778151	0.010830815
AC005944.2	CBX7	0.97421895	0.000988426
RP11-680G24.6	CCL20	0.847491107	0.033114845
LA16c-359F1.1	CCL20	0.898081003	0.015051882
CTB-191K22.5	CBX7	0.966148461	0.001699494
RP11-20I23.8	CBX7	0.970660609	0.001278572
RP11-498J9.2	CNST	0.893733685	0.016338787
CDC37L1-AS1	CBX7	0.943668351	0.004670505
RP11-93O14.2	CNST	0.867512298	0.025166709
RP5-1142A6.10	CBX7	0.959363967	0.00244338
RP11-78A19.3	CNST	0.869627871	0.024387378
Z69720.3	CNST	0.885060734	0.019057319
RP11-556I13.1	CBX7	0.967301903	0.001586269
CTA-315H11.2	CC2D1B	-0.955085421	0.002980676
RP11-66D17.5	CC2D1B	0.942575419	0.004851693
RP11-126K1.8	CC2D1B	0.966163402	0.001698003
RP3-438O4.4	CC2D1B	0.98956191	0.000162862
RP11-473M20.11	RBPMS	0.912102107	0.011249508
NUP50-AS1	CC2D1B	0.978322723	0.000699763
RP11-680G24.6	RBPMS	0.852084907	0.031200204
LA16c-359F1.1	RBPMS	0.900240296	0.014431594
PSMD5-AS1	CC2D1B	0.984765265	0.000346378
TOPORS-AS1	CC2D1B	0.975184063	0.000916105
AC087294.2	CC2D1B	0.996459751	1.88E-05
AP001062.8	CC2D1B	0.986724064	0.000263206
RP11-455F5.3	CC2D1B	0.997081324	1.28E-05
RP11-326C3.2	CC2D1B	0.9917386	0.000102094
AP006621.8	CC2D1B	0.986967412	0.000253666
JHDM1D-AS1	CC2D1B	0.998668001	2.66E-06
RP11-680G24.6	RASGEF1B	0.846462764	0.033550805
LA16c-359F1.1	RASGEF1B	0.898389115	0.014962603
RP11-20I23.6	CC2D1B	0.997079076	1.28E-05
RP11-160E2.19	CC2D1B	0.954159023	0.003103928
AC005786.7	CC2D1B	0.989930905	0.00015157
AC005944.2	CC2D1B	0.967482345	0.001568905
CTB-191K22.5	CC2D1B	0.972494283	0.001124442
RP11-20I23.8	CC2D1B	0.998898834	1.82E-06
RP11-473M20.11	PLEKHA2	0.914263136	0.010711097
CDC37L1-AS1	CC2D1B	0.993299543	6.72E-05
RP11-680G24.6	PLEKHA2	0.886208495	0.018686045
RP5-1142A6.10	CC2D1B	0.987407544	0.000236857
RP11-556I13.1	CC2D1B	0.998681407	2.61E-06

CTA-315H11.2	CCBP2	-0.950584981	0.003602434
RP11-66D17.5	CCBP2	0.934994339	0.006201256
RP11-126K1.8	CCBP2	0.963603879	0.00196291
RP3-438O4.4	CCBP2	0.991700202	0.000103044
RP11-485G7.6	CLIP2	0.9080387	0.012296468
NUP50-AS1	CCBP2	0.972025339	0.001162926
PSMD5-AS1	CCBP2	0.971938724	0.001170105
RP11-680G24.6	CLIP2	0.83823917	0.037133486
LA16c-359F1.1	CLIP2	0.856652141	0.029350113
TOPORS-AS1	CCBP2	0.973506769	0.001043539
RP11-34P13.14	HHEX	0.811598255	0.049899146
RP3-339A18.6	HHEX	0.877217965	0.021687646
RP3-337H4.8	HHEX	-0.816271491	0.047533263
AC087294.2	CCBP2	0.994347506	4.78E-05
AP001062.8	CCBP2	0.983935105	0.000385048
AC024028.1	ANTXR2	0.852836878	0.030891922
RP11-34P13.14	ANTXR2	0.844853319	0.03423851
RP11-473M20.11	ANTXR2	0.849303954	0.032352847
RP3-337H4.8	ANTXR2	-0.875323836	0.022347227
RP11-455F5.3	CCBP2	0.994403373	4.69E-05
RP11-91K8.5	ANTXR2	-0.855589548	0.029775773
RP11-326C3.2	CCBP2	0.984679013	0.000350301
AP006621.8	CCBP2	0.976288133	0.000836713
JHDM1D-AS1	CCBP2	0.997666618	8.16E-06
RP11-20I23.6	CCBP2	0.990614912	0.000131706
RP11-485G7.6	PEL1	0.914510607	0.010650258
RP11-160E2.19	CCBP2	0.935219784	0.00615879
AC005786.7	CCBP2	0.982861823	0.000438059
LA16c-359F1.1	PEL1	0.852436887	0.031055725
AC005944.2	CCBP2	0.946351715	0.004240004
AC024028.1	TNRC18	0.895081807	0.01593428
RP11-498J9.2	TNRC18	0.882836958	0.019786609
CTB-191K22.5	CCBP2	0.963999513	0.001920724
RP11-93O14.2	TNRC18	0.870819161	0.023953669
RP11-473M20.11	TNRC18	0.842652333	0.035189603
RP11-78A19.3	TNRC18	0.849093334	0.032440948
RP11-680G24.6	TNRC18	0.828475727	0.041607693
RP11-20I23.8	CCBP2	0.996259978	2.10E-05
CDC37L1-AS1	CCBP2	0.994031095	5.33E-05
RP5-1142A6.10	CCBP2	0.976291522	0.000836475
RP11-556I13.1	CCBP2	0.997717366	7.81E-06
CCDC144NL-AS1	CCDC134	0.986532109	0.000270855
RP11-118G23.2	CCDC136	0.919460972	0.009468593
RP11-473M20.11	SLC24A3	0.885381792	0.018953111
LL21NC02-21A1.1	CCDC136	-0.922645514	0.008744141
RP11-680G24.6	SLC24A3	0.899105405	0.01475604
CTA-315H11.2	CCDC146	-0.960819969	0.00227254
RP11-66D17.5	CCDC146	0.930983257	0.006980592
RP11-126K1.8	CCDC146	0.957514585	0.002669172
RP3-438O4.4	CCDC146	0.985928488	0.000295618
NUP50-AS1	CCDC146	0.970733445	0.001272263
PSMD5-AS1	CCDC146	0.982576928	0.000452701
TOPORS-AS1	CCDC146	0.972138612	0.001153572
AC087294.2	CCDC146	0.993224032	6.87E-05
AP001062.8	CCDC146	0.980618168	0.000559843
RP11-455F5.3	CCDC146	0.994381426	4.73E-05
RP11-326C3.2	CCDC146	0.993432343	6.46E-05
AP006621.8	CCDC146	0.985940265	0.000295125
JHDM1D-AS1	CCDC146	0.996968101	1.38E-05
RP11-485G7.6	PPAP2A	0.904934469	0.013126608
RP11-473M20.11	PPAP2A	0.902709517	0.013737709
RP11-20I23.6	CCDC146	0.995827172	2.61E-05
RP11-680G24.6	PPAP2A	0.887767227	0.01818744

LA16c-359F1.1	PPAP2A	0.888902647	0.017828317
RP11-160E2.19	CCDC146	0.959425034	0.002436092
AC005786.7	CCDC146	0.98648493	0.000272751
AC005944.2	CCDC146	0.961570942	0.002186813
CTB-191K22.5	CCDC146	0.963989145	0.001921823
RP11-20I23.8	CCDC146	0.997120979	1.24E-05
CDC37L1-AS1	CCDC146	0.990783749	0.000127018
RP5-1142A6.10	CCDC146	0.986141659	0.00028675
RP11-556I13.1	CCDC146	0.997009129	1.34E-05
CTA-315H11.2	CCDC157	-0.949617075	0.003743712
RP11-66D17.5	CCDC157	0.938360022	0.00558213
RP11-126K1.8	CCDC157	0.958409604	0.002558671
RP3-438O4.4	CCDC157	0.985863303	0.000298357
NUP50-AS1	CCDC157	0.976331933	0.000833637
PSMD5-AS1	CCDC157	0.985598457	0.000309613
TOPORS-AS1	CCDC157	0.980405484	0.000572156
AC024028.1	ORAI2	0.90654526	0.012692576
RP11-498J9.2	ORAI2	0.877595455	0.021557323
AC087294.2	CCDC157	0.994125128	5.17E-05
RP11-93O14.2	ORAI2	0.874750358	0.022548784
RP11-473M20.11	ORAI2	0.865782023	0.025812765
RP11-78A19.3	ORAI2	0.858778493	0.028507045
RP11-680G24.6	ORAI2	0.823115171	0.044165156
Z69720.3	ORAI2	0.894316379	0.01616335
RP3-337H4.8	ORAI2	-0.850226685	0.031968208
AP001062.8	CCDC157	0.9828191	0.000440239
RP11-455F5.3	CCDC157	0.994810448	4.03E-05
RP11-326C3.2	CCDC157	0.994761542	4.11E-05
AP006621.8	CCDC157	0.987739403	0.000224562
RP11-485G7.6	PRKX	0.83612434	0.038082389
JHDM1D-AS1	CCDC157	0.996415549	1.92E-05
RP11-20I23.6	CCDC157	0.999219072	9.15E-07
RP11-160E2.19	CCDC157	0.964915051	0.001824836
AC005786.7	CCDC157	0.992892663	7.56E-05
AC005944.2	CCDC157	0.970313987	0.001308809
RP11-21J18.1	AKAP2	0.859045695	0.028401926
RP11-298J23.8	AKAP2	0.900455403	0.01437049
CTB-191K22.5	CCDC157	0.968550639	0.001468041
RP11-20I23.8	CCDC157	0.997349295	1.05E-05
CDC37L1-AS1	CCDC157	0.989250682	0.000172701
RP5-1142A6.10	CCDC157	0.994326374	4.82E-05
RP11-93O14.2	SLC6A6	0.900525244	0.014350678
RP11-485G7.6	SLC6A6	0.820261211	0.045555725
RP11-556I13.1	CCDC157	0.996438096	1.90E-05
RP11-78A19.3	SLC6A6	0.895603008	0.0157792
CTA-315H11.2	CCDC57	-0.952420231	0.003341895
RP3-438O4.4	CCDC57	0.965291521	0.001786111
NUP50-AS1	CCDC57	0.935609755	0.006085671
PSMD5-AS1	CCDC57	0.956501469	0.002797031
TOPORS-AS1	CCDC57	0.957449641	0.00267728
AC087294.2	CCDC57	0.96862268	0.001461358
RP11-473M20.11	ZC3H12A	0.906427864	0.01272397
AP001062.8	CCDC57	0.946416939	0.004229794
RP11-680G24.6	ZC3H12A	0.861216605	0.027554704
LA16c-359F1.1	ZC3H12A	0.905480686	0.012978638
RP11-455F5.3	CCDC57	0.969113785	0.001416205
RP11-326C3.2	CCDC57	0.981138867	0.000530259
AP006621.8	CCDC57	0.962058401	0.002132038
JHDM1D-AS1	CCDC57	0.976788868	0.000801882
RP11-20I23.6	CCDC57	0.979849364	0.000604981
RP11-160E2.19	CCDC57	0.961720538	0.00216993
AC005786.7	CCDC57	0.96858827	0.001464548
AC005944.2	CCDC57	0.933187629	0.006546718

AC024028.1	DOCK8	0.903279492	0.013579882
RP11-498J9.2	DOCK8	0.813952887	0.048700419
RP11-34P13.14	DOCK8	0.888752876	0.017875491
RP11-473M20.11	DOCK8	0.898799716	0.014844025
Z69720.3	DOCK8	0.821012604	0.045187668
RP3-337H4.8	DOCK8	-0.84692574	0.033354196
CTD-2139B15.2	DOCK8	-0.887437946	0.018292231
AC024028.1	TACC1	0.858544768	0.028599144
CTB-191K22.5	CCDC57	0.927037041	0.007791178
RP11-20I23.8	CCDC57	0.976839273	0.000798417
CDC37L1-AS1	CCDC57	0.974590112	0.00096029
RP5-1142A6.10	CCDC57	0.974170297	0.000992144
RP11-556I13.1	CCDC57	0.976972691	0.00078928
RMRP	CCDC66	0.949134481	0.003815149
RP11-770G2.2	CCDC71	0.923691045	0.008512409
Z69720.3	TACC1	0.896477991	0.015520497
CCDC144NL-AS1	CCDC88B	-0.920285239	0.009278393
CTA-315H11.2	CCDC88B	-0.963170478	0.002009643
RP11-126K1.8	CCDC88B	0.927080621	0.007781989
NUP50-AS1	CCDC88B	0.925812469	0.008051528
PSMD5-AS1	CCDC88B	0.985938272	0.000295208
RP11-473M20.11	DLG4	0.916266839	0.010223327
AC087294.2	CCDC88B	0.947234079	0.004102907
RP11-680G24.6	DLG4	0.867643951	0.025117871
LA16c-359F1.1	DLG4	0.889289904	0.017706617
AP001062.8	CCDC88B	0.935154782	0.00617102
RP11-455F5.3	CCDC88B	0.957377673	0.002686279
RP11-326C3.2	CCDC88B	0.981079724	0.000533579
AP006621.8	CCDC88B	0.988316653	0.000203953
JHDM1D-AS1	CCDC88B	0.950104709	0.003672202
RP11-20I23.6	CCDC88B	0.961523592	0.00219217
RP11-160E2.19	CCDC88B	0.985057646	0.000333243
AC005786.7	CCDC88B	0.939099478	0.005450374
RP11-680G24.6	TNFRSF10D	0.848763831	0.032579003
LA16c-359F1.1	TNFRSF10D	0.894498976	0.016108561
AC005944.2	CCDC88B	0.960996578	0.002252233
RP11-498J9.2	GLS	0.818512408	0.046417723
RP11-34P13.14	GLS	0.913879485	0.010805748
RP11-93O14.2	GLS	0.859744338	0.028127946
RP11-118G23.2	GLS	0.870585483	0.024038451
RP11-78A19.3	GLS	0.836266752	0.038018137
CTB-191K22.5	CCDC88B	0.919344631	0.00949559
LA16c-359F1.1	GLS	0.833641248	0.039210843
Z69720.3	GLS	0.862709123	0.026979294
AC024028.1	HLA-DQB1	0.861940559	0.027274879
RP11-20I23.8	CCDC88B	0.95512075	0.002976024
RP11-34P13.14	HLA-DQB1	0.862464835	0.02707308
RP11-93O14.2	HLA-DQB1	0.912769645	0.011081829
RP5-1142A6.10	CCDC88B	0.95931779	0.002448898
RP11-78A19.3	HLA-DQB1	0.904281062	0.013304679
Z69720.3	HLA-DQB1	0.914299202	0.01070222
AC024028.1	SLC25A36	0.8467529	0.033427531
RP11-498J9.2	SLC25A36	0.910613852	0.011627733
RP11-556I13.1	CCDC88B	0.949904845	0.003701429
RP11-770G2.2	CCL18	0.93726257	0.005780511
RP11-485G7.6	SLC25A36	0.863712273	0.026595789
RP11-118G23.2	SLC25A36	0.880841345	0.020452224
AC024028.1	CCL2	0.92856058	0.007473087
RP11-498J9.2	CCL2	0.985933898	0.000295391
RP11-34P13.14	CCL2	0.936946819	0.005838215
RP11-93O14.2	CCL2	0.958585034	0.002537282
RP11-485G7.6	CCL2	0.981946002	0.000485978
RP11-78A19.3	CCL2	0.95752582	0.002667771

Z69720.3	CCL2	0.972933599	0.001088971
AC024028.1	CCL20	0.963663719	0.0019565
RP11-498J9.2	CCL20	0.999984776	3.48E-10
RP11-473M20.11	SERPINE2	0.883446088	0.01958554
RP11-34P13.14	CCL20	0.97761208	0.000746218
RP11-680G24.6	SERPINE2	0.886520062	0.018585864
RP11-93O14.2	CCL20	0.982761014	0.000443212
RP11-485G7.6	CCL20	0.966210445	0.001693312
RP11-34P13.14	OSBPL3	0.884266284	0.019316354
RP11-93O14.2	OSBPL3	0.843725659	0.034724264
RP11-118G23.2	OSBPL3	0.891848514	0.016912606
RP11-78A19.3	CCL20	0.982909538	0.00043563
LA16c-359F1.1	OSBPL3	0.82512252	0.043199136
Z69720.3	OSBPL3	0.851595909	0.031401452
RP3-339A18.6	OSBPL3	0.825317248	0.043105955
Z69720.3	CCL20	0.986381336	0.000276939
AC024028.1	CCL3	0.954480644	0.003060859
RP11-498J9.2	CCL3	0.9982274	4.71E-06
RP11-34P13.14	CCL3	0.966878847	0.001627349
RP11-93O14.2	CCL3	0.979171072	0.000646248
RP11-473M20.11	TNNT1	0.895551943	0.015794362
RP11-485G7.6	CCL3	0.97418713	0.000990857
RP11-680G24.6	TNNT1	0.842156729	0.035405454
LA16c-359F1.1	TNNT1	0.901984646	0.013939697
RP11-78A19.3	CCL3	0.978264678	0.000703502
AC024028.1	SKAP2	0.912600764	0.011124135
Z69720.3	CCL3	0.983569391	0.00040273
AC024028.1	CCL3L1	0.967380618	0.001578682
RP11-498J9.2	CCL3L1	0.999906466	1.31E-08
RP11-34P13.14	CCL3L1	0.977797818	0.000733933
RP11-473M20.11	SKAP2	0.853421722	0.030653156
RP11-93O14.2	CCL3L1	0.980731422	0.00055334
RP11-485G7.6	CCL3L1	0.96353176	0.001970649
RP11-473M20.11	CCL3L1	0.91962261	0.009431147
RP11-78A19.3	CCL3L1	0.981540705	0.000507973
Z69720.3	CCL3L1	0.985681166	0.000306076
AC024028.1	CCL4L1	0.925851614	0.008043142
RP11-498J9.2	CCL4L1	0.969413955	0.001388952
RP11-34P13.14	CCL4L1	0.987362408	0.000238554
RP11-93O14.2	CCL4L1	0.966413483	0.001673137
RP11-78A19.3	CCL4L1	0.950593445	0.003601211
Z69720.3	CCL4L1	0.987667482	0.000227199
RP11-680G24.6	CD244	0.828591894	0.04155306
LA16c-359F1.1	CD244	0.866055093	0.025710288
AC024028.1	CCNA1	0.954517594	0.00305593
RP11-498J9.2	CCNA1	0.998352728	4.07E-06
RP11-34P13.14	CCNA1	0.978844187	0.000666618
RP11-93O14.2	CCNA1	0.989399083	0.000167973
RP11-485G7.6	CCNA1	0.97100179	0.001249152
RP11-485G7.6	GPR65	0.904189852	0.013329628
RP11-78A19.3	CCNA1	0.991023048	0.000120517
LA16c-359F1.1	CCNA1	0.921461093	0.009010312
RP11-680G24.6	GPR65	0.836989932	0.037692649
LA16c-359F1.1	GPR65	0.856679876	0.029339042
Z69720.3	CCNA1	0.984423752	0.00036204
RP11-91K8.5	CCNA2	0.949251836	0.003797716
CTD-2139B15.2	CCNB2	0.948700518	0.003879954
RP11-91K8.5	CCNB2	0.940646572	0.005179698
CTA-315H11.2	CCNDBP1	-0.938183402	0.005613828
RP11-66D17.5	CCNDBP1	0.9627936	0.002050722
RP11-126K1.8	CCNDBP1	0.985501497	0.000313786
RP3-438O4.4	CCNDBP1	0.992670199	8.04E-05
RP11-680G24.6	HES1	0.852865963	0.030880027

LA16c-359F1.1	HES1	0.892475306	0.016720763
NUP50-AS1	CCNDBP1	0.990997977	0.00012119
PSMD5-AS1	CCNDBP1	0.984861553	0.000342024
TOPORS-AS1	CCNDBP1	0.975801002	0.000871302
AC087294.2	CCNDBP1	0.9995107	3.59E-07
AP001062.8	CCNDBP1	0.997257653	1.13E-05
RP11-455F5.3	CCNDBP1	0.999422235	5.01E-07
RP11-473M20.11	ZMIZ1	0.909613449	0.011885376
RP11-326C3.2	CCNDBP1	0.982598123	0.000451603
RP11-680G24.6	ZMIZ1	0.87819669	0.02135053
AP006621.8	CCNDBP1	0.984974158	0.000336968
JHDM1D-AS1	CCNDBP1	0.998060778	5.64E-06
RP11-20I23.6	CCNDBP1	0.993694483	5.95E-05
RP11-160E2.19	CCNDBP1	0.933181379	0.006547929
AC005786.7	CCNDBP1	0.990617541	0.000131633
AC005944.2	CCNDBP1	0.972645374	0.001112179
CTB-191K22.5	CCNDBP1	0.986506032	0.000271902
RP11-20I23.8	CCNDBP1	0.998170767	5.02E-06
CDC37L1-AS1	CCNDBP1	0.992739617	7.89E-05
RP11-680G24.6	C5orf62	0.831151325	0.040357885
LA16c-359F1.1	C5orf62	0.890358776	0.017372788
RP5-1142A6.10	CCNDBP1	0.982334372	0.000465355
RP11-556I13.1	CCNDBP1	0.997991415	6.05E-06
RP11-498J9.2	CCNG1	0.921466279	0.009009138
RP11-93O14.2	CCNG1	0.932570655	0.006666784
RP11-485G7.6	CCNG1	0.982657664	0.000448527
RP11-485G7.6	NEDD9	0.910492751	0.011658776
RP11-78A19.3	CCNG1	0.934692902	0.006258258
LA16c-359F1.1	CCNG1	0.938619103	0.005535792
RP11-680G24.6	NEDD9	0.830030841	0.040879109
LA16c-359F1.1	NEDD9	0.8568851	0.029257181
AC024028.1	CCNL1	0.988881143	0.000184756
RP11-498J9.2	CCNL1	0.957075266	0.002724254
RP11-34P13.14	CCNL1	0.969672198	0.001365716
RP11-93O14.2	CCNL1	0.932398342	0.006700507
RP11-473M20.11	CCNL1	0.97158273	0.001199838
RP11-485G7.6	MADD	0.901876683	0.013969903
RP11-473M20.11	MADD	0.900634917	0.014319593
RP11-78A19.3	CCNL1	0.941245766	0.005076678
RP11-680G24.6	MADD	0.882213278	0.019993498
LA16c-359F1.1	MADD	0.880184054	0.020673761
Z69720.3	CCNL1	0.935533677	0.006099902
CTA-315H11.2	CCR3	-0.957816566	0.002631632
RP11-66D17.5	CCR3	0.934770537	0.006243552
RP11-126K1.8	CCR3	0.964642874	0.001853089
RP3-438O4.4	CCR3	0.985198596	0.000327001
NUP50-AS1	CCR3	0.975855936	0.000867367
RP11-473M20.11	KIF3C	0.910985192	0.011532794
PSMD5-AS1	CCR3	0.988035282	0.000213875
RP11-680G24.6	KIF3C	0.855412932	0.029846803
LA16c-359F1.1	KIF3C	0.900006119	0.014498256
TOPORS-AS1	CCR3	0.975463046	0.000895707
RP11-498J9.2	LIMS1	0.866967679	0.025369221
AC087294.2	CCR3	0.995411417	3.15E-05
RP11-93O14.2	LIMS1	0.916489793	0.010169734
RP11-118G23.2	LIMS1	0.892137141	0.016824135
RP11-78A19.3	LIMS1	0.89262222	0.016675949
AP001062.8	CCR3	0.984744488	0.000347321
LA16c-359F1.1	LIMS1	0.893673955	0.016356822
Z69720.3	LIMS1	0.899933391	0.01451899
RP11-455F5.3	CCR3	0.997193292	1.18E-05
RP11-326C3.2	CCR3	0.996165401	2.20E-05
AP006621.8	CCR3	0.990989146	0.000121427

JHDM1D-AS1	CCR3	0.997942638	6.34E-06
RP11-20I23.6	CCR3	0.998096815	5.43E-06
RP11-160E2.19	CCR3	0.962589014	0.002073193
AC005786.7	CCR3	0.989143971	0.00017614
AC024028.1	SFXN3	0.909145506	0.012006828
RP11-498J9.2	SFXN3	0.856528387	0.029399538
AC005944.2	CCR3	0.967428939	0.001574034
RP11-93O14.2	SFXN3	0.840840447	0.035981749
RP11-473M20.11	SFXN3	0.8812567	0.020312818
RP11-78A19.3	SFXN3	0.827813883	0.041919596
Z69720.3	SFXN3	0.872679836	0.023283679
RP3-337H4.8	SFXN3	-0.856842515	0.029274159
CTD-2139B15.2	SFXN3	-0.826708228	0.042443078
CTB-191K22.5	CCR3	0.967993226	0.001520256
RP11-20I23.8	CCR3	0.998561441	3.10E-06
CDC37L1-AS1	CCR3	0.988177311	0.000208838
RP5-1142A6.10	CCR3	0.9899247	0.000151756
RP11-556I13.1	CCR3	0.997938109	6.37E-06
RP11-473M20.11	NR4A3	0.910407671	0.011680609
CTA-315H11.2	CCR7	-0.963854234	0.001936162
RP11-680G24.6	NR4A3	0.858106016	0.028772414
LA16c-359F1.1	NR4A3	0.903752012	0.013449708
RP11-66D17.5	CCR7	0.920553815	0.009216824
RP11-126K1.8	CCR7	0.958808342	0.002510183
RP3-438O4.4	CCR7	0.972791751	0.001100362
NUP50-AS1	CCR7	0.968172235	0.001503389
PSMD5-AS1	CCR7	0.992409481	8.62E-05
TOPORS-AS1	CCR7	0.966716636	0.001643238
RP11-473M20.11	BAALC	0.913922612	0.010795088
AC087294.2	CCR7	0.989164049	0.000175491
RP11-680G24.6	BAALC	0.850713317	0.031766231
LA16c-359F1.1	BAALC	0.901055628	0.014200651
AP001062.8	CCR7	0.97732704	0.000765267
RP11-455F5.3	CCR7	0.99298284	7.37E-05
RP11-326C3.2	CCR7	0.99917033	1.03E-06
AP006621.8	CCR7	0.995631623	2.86E-05
JHDM1D-AS1	CCR7	0.992096148	9.35E-05
RP11-20I23.6	CCR7	0.995467333	3.08E-05
RP11-473M20.11	RAB11FIP1	0.893345544	0.016456153
RP11-160E2.19	CCR7	0.975236523	0.000912252
RP11-680G24.6	RAB11FIP1	0.893625074	0.016371588
AC005786.7	CCR7	0.983129063	0.000424542
AC005944.2	CCR7	0.96964392	0.001368251
CTB-191K22.5	CCR7	0.959649609	0.002409383
RP11-20I23.8	CCR7	0.993745287	5.86E-05
CDC37L1-AS1	CCR7	0.976271571	0.000837877
RP5-1142A6.10	CCR7	0.989352614	0.000169447
RP11-556I13.1	CCR7	0.992053792	9.45E-05
RP11-473M20.11	PTPN1	0.845484903	0.033967855
LL21NC02-21A1.1	CCS	0.94707937	0.004126785
CTA-315H11.2	CD101	-0.970391006	0.00130206
RP11-126K1.8	CD101	0.922681635	0.008736085
RP3-438O4.4	CD101	0.941684083	0.00500196
NUP50-AS1	CD101	0.935040709	0.006192509
PSMD5-AS1	CD101	0.983342697	0.000413888
TOPORS-AS1	CD101	0.942818629	0.004811081
AC087294.2	CD101	0.965302018	0.001785038
AP001062.8	CD101	0.946168325	0.004268776
RP11-455F5.3	CD101	0.972105862	0.001156272
RP11-326C3.2	CD101	0.996211766	2.15E-05
AP006621.8	CD101	0.988660964	0.000192132
JHDM1D-AS1	CD101	0.971622828	0.00119647
RP11-20I23.6	CD101	0.981070442	0.000534101

RP11-160E2.19	CD101	0.993458543	6.40E-05
AC005786.7	CD101	0.961586122	0.002185097
RP11-473M20.11	PHLDA2	0.911220463	0.011472838
AC005944.2	CD101	0.953730786	0.003161733
RP11-680G24.6	PHLDA2	0.854109365	0.030373542
LA16c-359F1.1	PHLDA2	0.901805072	0.013989956
CTB-191K22.5	CD101	0.924349698	0.00836798
RP11-20I23.8	CD101	0.974549752	0.00096333
CDC37L1-AS1	CD101	0.948387754	0.003926993
RP5-1142A6.10	CD101	0.978999377	0.000656908
RP11-556I13.1	CD101	0.971602189	0.001198203
RP11-34P13.14	CD109	0.949177055	0.00380882
RP11-473M20.11	APOC2	0.901103254	0.014187216
RP11-93O14.2	CD109	0.96154498	0.002189749
RP11-680G24.6	APOC2	0.854067402	0.030390571
LA16c-359F1.1	APOC2	0.899731799	0.014576535
RP11-78A19.3	CD109	0.95219978	0.003372683
RP11-680G24.6	CD109	0.982620973	0.000450421
LA16c-359F1.1	CD109	0.967139489	0.001601978
Z69720.3	CD109	0.917944926	0.009823313
AC024028.1	CD19	0.962876609	0.002041638
RP11-498J9.2	CD19	0.999950895	3.62E-09
RP11-473M20.11	IGHV@	0.91406399	0.010760178
RP11-34P13.14	CD19	0.977652796	0.000743516
RP11-680G24.6	IGHV@	0.847687381	0.03303194
LA16c-359F1.1	IGHV@	0.897989146	0.015078548
RP11-93O14.2	CD19	0.982785533	0.000441956
RP11-485G7.6	CD19	0.966309277	0.001683477
RP11-78A19.3	CD19	0.982520383	0.000455635
Z69720.3	CD19	0.986949806	0.00025435
CTA-315H11.2	CD2	-0.970073136	0.001330024
RP3-438O4.4	CD2	0.934427466	0.006308663
RP11-473M20.11	GGT5	0.908750022	0.012109939
NUP50-AS1	CD2	0.928893632	0.007404412
RP11-680G24.6	GGT5	0.839883718	0.036403367
LA16c-359F1.1	GGT5	0.893329792	0.016460925
PSMD5-AS1	CD2	0.981504242	0.000509976
TOPORS-AS1	CD2	0.936587041	0.005904307
AC087294.2	CD2	0.959927913	0.002376485
AP001062.8	CD2	0.940166488	0.00526297
RP11-455F5.3	CD2	0.967389357	0.001577841
RP11-326C3.2	CD2	0.994182453	5.07E-05
AP006621.8	CD2	0.986950021	0.000254342
JHDM1D-AS1	CD2	0.966519771	0.001662624
RP11-20I23.6	CD2	0.977052667	0.000783828
RP11-160E2.19	CD2	0.995077072	3.63E-05
AC005786.7	CD2	0.956349757	0.002816431
AC005944.2	CD2	0.951181818	0.00351665
CTB-191K22.5	CD2	0.918090981	0.009788864
RP11-473M20.11	CD34	0.914116879	0.010747133
RP11-20I23.8	CD2	0.969776386	0.001356396
RP11-680G24.6	CD34	0.849449373	0.032292085
LA16c-359F1.1	CD34	0.89934494	0.014687271
CDC37L1-AS1	CD2	0.941511182	0.005031369
RP5-1142A6.10	CD2	0.975654094	0.000881869
RP11-556I13.1	CD2	0.966490732	0.001665493
AC011558.5	CD2	0.921766769	0.008941247
AC024028.1	CD200R1L	0.963607452	0.001962527
RP11-498J9.2	CD200R1L	0.999962722	2.08E-09
RP11-34P13.14	CD200R1L	0.978667709	0.000677746
RP11-93O14.2	CD200R1L	0.984137245	0.000375445
RP11-680G24.6	PAPSS1	0.852063599	0.031208961
LA16c-359F1.1	PAPSS1	0.868903289	0.024652985

RP11-485G7.6	CD200R1L	0.966162977	0.001698045
AC024028.1	ANKRD28	0.904876228	0.013142433
RP11-78A19.3	CD200R1L	0.984712497	0.000348775
Z69720.3	CD200R1L	0.985956101	0.000294462
RP11-770G2.2	CD209	0.942862038	0.00480385
RP11-485G7.6	ANKRD28	0.841718457	0.035596853
RP11-473M20.11	ANKRD28	0.837194907	0.037600632
AC005943.6	CD209	0.948109387	0.003969092
AC024028.1	CD22	0.951915812	0.003412546
LA16c-359F1.1	ANKRD28	0.876568679	0.02191268
RP11-498J9.2	CD22	0.997908237	6.56E-06
RP11-34P13.14	CD22	0.968176081	0.001503028
RP11-93O14.2	CD22	0.982584116	0.000452328
RP11-485G7.6	CD22	0.974093587	0.00099802
RP11-78A19.3	CD22	0.98055673	0.000563386
Z69720.3	CD22	0.982927439	0.00043472
CCDC144NL-AS1	CD226	-0.918581312	0.009673642
CTA-315H11.2	CD226	-0.967597368	0.001557886
RP3-438O4.4	CD226	0.928116599	0.007565116
NUP50-AS1	CD226	0.920907732	0.009135996
PSMD5-AS1	CD226	0.976212664	0.000842026
TOPORS-AS1	CD226	0.932751522	0.006631476
AC087294.2	CD226	0.95442994	0.003067629
RP11-473M20.11	PHACTR1	0.899008846	0.014783805
AP001062.8	CD226	0.933308369	0.006523346
RP11-680G24.6	PHACTR1	0.868011136	0.024981897
LA16c-359F1.1	PHACTR1	0.905067676	0.013090447
RP11-455F5.3	CD226	0.962436541	0.002090019
RP11-326C3.2	CD226	0.99182692	9.99E-05
AP006621.8	CD226	0.98275013	0.000443771
JHDM1D-AS1	CD226	0.961767486	0.002164645
RP11-20I23.6	CD226	0.972450594	0.001128
RP11-160E2.19	CD226	0.993642753	6.05E-05
AC005786.7	CD226	0.950382308	0.003631796
AC005944.2	CD226	0.941857574	0.004972536
RP11-680G24.6	TNFRSF10B	0.850769055	0.031743135
LA16c-359F1.1	TNFRSF10B	0.878545719	0.021230919
RP11-20I23.8	CD226	0.964890192	0.001827408
AC024028.1	C12orf75	0.878534986	0.021234592
CDC37L1-AS1	CD226	0.934707265	0.006255536
RP5-1142A6.10	CD226	0.971242058	0.001228637
RP11-556I13.1	CD226	0.961745437	0.002167126
RP11-485G7.6	C12orf75	0.847387894	0.03315848
RP11-118G23.2	C12orf75	0.827106495	0.042254165
AC011558.5	CD226	0.925061701	0.008213206
AC024028.1	CD244	0.983363979	0.000412834
LA16c-359F1.1	C12orf75	0.902257935	0.013863377
RP11-498J9.2	CD244	0.994706698	4.20E-05
RP11-93O14.2	KLF10	0.857313289	0.029086731
RP11-485G7.6	KLF10	0.859661568	0.028160339
RP11-78A19.3	KLF10	0.873444086	0.023011114
RP11-680G24.6	KLF10	0.87385785	0.022864186
RP11-34P13.14	CD244	0.984088567	0.000377746
RP11-93O14.2	CD244	0.97018	0.00132059
RP11-34P13.14	RAPGEF2	0.894189183	0.016201568
RP11-93O14.2	RAPGEF2	0.842777285	0.03513528
RP11-118G23.2	RAPGEF2	0.835919177	0.03817504
RP11-78A19.3	RAPGEF2	0.842047783	0.035452987
RP11-680G24.6	RAPGEF2	0.90694106	0.012587006
LA16c-359F1.1	RAPGEF2	0.848459054	0.032706944
Z69720.3	RAPGEF2	0.813223648	0.049070224
AC024028.1	CDKN1C	0.863053951	0.026847172
RP11-485G7.6	CD244	0.934401555	0.006313594

RP11-34P13.14	CDKN1C	0.914059501	0.010761286
RP11-473M20.11	CD244	0.943001051	0.004780729
RP11-78A19.3	CD244	0.969731704	0.001360389
Z69720.3	CD244	0.981883296	0.000489349
RP11-680G24.6	CDKN1C	0.889359183	0.017684887
CTA-315H11.2	CD247	-0.966843176	0.001630837
Z69720.3	CDKN1C	0.913878082	0.010806095
RP11-126K1.8	CD247	0.949448468	0.003768595
RP3-438O4.4	CD247	0.968454767	0.001476957
NUP50-AS1	CD247	0.961110771	0.002239151
PSMD5-AS1	CD247	0.990145555	0.000145187
RP11-485G7.6	C20orf112	0.899228904	0.014720565
TOPORS-AS1	CD247	0.963975476	0.001923274
AC087294.2	CD247	0.985234739	0.00032541
RP11-680G24.6	C20orf112	0.823513909	0.043972474
LA16c-359F1.1	C20orf112	0.846568349	0.033505919
AP001062.8	CD247	0.970864138	0.001260981
RP11-455F5.3	CD247	0.98939776	0.000168015
RP11-326C3.2	CD247	0.999966987	1.63E-09
AP006621.8	CD247	0.994069546	5.27E-05
JHDM1D-AS1	CD247	0.989366599	0.000169003
RP11-20I23.6	CD247	0.99403199	5.33E-05
RP11-473M20.11	METRNL	0.909236165	0.011983251
RP11-160E2.19	CD247	0.980802798	0.000549261
RP11-680G24.6	METRNL	0.816917733	0.047210297
LA16c-359F1.1	METRNL	0.875523565	0.022277232
AC005786.7	CD247	0.980260529	0.000580624
AC005944.2	CD247	0.965691056	0.001745463
CTB-191K22.5	CD247	0.951971141	0.003404761
RP11-20I23.8	CD247	0.991139124	0.000117425
CDC37L1-AS1	CD247	0.973071091	0.001077985
RP5-1142A6.10	CD247	0.988853902	0.000185661
RP11-473M20.11	TNFRSF18	0.91197778	0.011280873
RP11-556I13.1	CD247	0.989349271	0.000169553
RP11-680G24.6	TNFRSF18	0.850079044	0.032029606
LA16c-359F1.1	TNFRSF18	0.900589274	0.014332526
CTA-315H11.2	CD248	-0.967012677	0.001614297
RP11-126K1.8	CD248	0.937396805	0.005756064
RP3-438O4.4	CD248	0.958020068	0.002606481
NUP50-AS1	CD248	0.950699635	0.003585876
PSMD5-AS1	CD248	0.98733502	0.000239587
RP11-485G7.6	MACF1	0.860211441	0.027945469
TOPORS-AS1	CD248	0.957641211	0.002653399
AC087294.2	CD248	0.977388805	0.000761119
AP001062.8	CD248	0.960704484	0.002285868
RP11-498J9.2	SSBP2	0.877718531	0.021514914
RP11-34P13.14	SSBP2	0.82363539	0.043913849
RP11-93O14.2	SSBP2	0.885023395	0.019069456
RP11-455F5.3	CD248	0.982507601	0.0004563
RP11-78A19.3	SSBP2	0.898263877	0.014998862
RP11-680G24.6	SSBP2	0.829581845	0.04108885
RP11-326C3.2	CD248	0.999308579	7.17E-07
Z69720.3	SSBP2	0.870061282	0.024229158
BX322559.3	SSBP2	-0.821834938	0.044786456
AP006621.8	CD248	0.991905832	9.80E-05
JHDM1D-AS1	CD248	0.98247122	0.000458194
RP11-20I23.6	CD248	0.989733129	0.000157572
RP11-160E2.19	CD248	0.9876348	0.000228402
AC005786.7	CD248	0.973980208	0.001006736
RP11-473M20.11	PHLDA1	0.909357554	0.011951718
AC005944.2	CD248	0.960968341	0.002255474
RP11-680G24.6	PHLDA1	0.858625844	0.02856718
LA16c-359F1.1	PHLDA1	0.903478527	0.013524976

CTB-191K22.5	CD248	0.940369505	0.005227677
AC024028.1	GNAQ	0.846624298	0.033482146
RP11-498J9.2	GNAQ	0.901311687	0.014128493
RP11-20I23.8	CD248	0.98475285	0.000346941
CDC37L1-AS1	CD248	0.963312184	0.001994303
RP11-485G7.6	GNAQ	0.826113994	0.042725676
RP11-118G23.2	GNAQ	0.859186962	0.028346425
RP11-78A19.3	GNAQ	0.912633347	0.011115966
RP5-1142A6.10	CD248	0.986659788	0.000265755
LA16c-359F1.1	GNAQ	0.903503419	0.013518117
RP11-556I13.1	CD248	0.982458765	0.000458844
CTA-315H11.2	CD27	-0.95506815	0.002982951
RP11-66D17.5	CD27	0.939196549	0.005433192
RP11-126K1.8	CD27	0.96771813	0.001546358
RP3-438O4.4	CD27	0.987654502	0.000227676
NUP50-AS1	CD27	0.978398086	0.000694924
RP11-473M20.11	SIK1	0.905097703	0.013082303
PSMD5-AS1	CD27	0.987138445	0.000247066
RP11-680G24.6	SIK1	0.873960997	0.022827628
LA16c-359F1.1	SIK1	0.906470649	0.012712524
TOPORS-AS1	CD27	0.976868675	0.000796399
AC087294.2	CD27	0.996768389	1.56E-05
AP001062.8	CD27	0.987094553	0.000248751
RP11-455F5.3	CD27	0.998131551	5.23E-06
RP11-326C3.2	CD27	0.994569867	4.41E-05
AP006621.8	CD27	0.989858964	0.000153739
JHDM1D-AS1	CD27	0.998863234	1.94E-06
RP11-20I23.6	CD27	0.998055209	5.67E-06
RP11-680G24.6	SOS1	0.817192894	0.047073093
LA16c-359F1.1	SOS1	0.861613923	0.027400964
RP11-160E2.19	CD27	0.957883199	0.002623383
AC005786.7	CD27	0.99006698	0.000147507
AC005944.2	CD27	0.967276128	0.001588756
CTB-191K22.5	CD27	0.9707835	0.001267936
RP11-20I23.8	CD27	0.999266703	8.06E-07
CDC37L1-AS1	CD27	0.990151195	0.000145021
RP11-473M20.11	TRIB1	0.911460457	0.011411834
RP5-1142A6.10	CD27	0.989231573	0.000173314
RP11-680G24.6	TRIB1	0.892180956	0.016810724
LA16c-359F1.1	TRIB1	0.912088038	0.011253055
RP11-556I13.1	CD27	0.998856612	1.96E-06
RP11-680G24.6	CD276	0.9254145	0.008137036
CTA-315H11.2	CD28	-0.969538811	0.001377694
RP11-126K1.8	CD28	0.923086593	0.008646011
RP3-438O4.4	CD28	0.939394701	0.005398202
NUP50-AS1	CD28	0.935076174	0.006185824
RP11-473M20.11	DBNDD2	0.907253059	0.012504088
PSMD5-AS1	CD28	0.984450405	0.000360805
RP11-680G24.6	DBNDD2	0.829615686	0.041073024
LA16c-359F1.1	DBNDD2	0.879017527	0.021069742
TOPORS-AS1	CD28	0.940838951	0.005146512
AC087294.2	CD28	0.964146383	0.001905178
AP001062.8	CD28	0.945625876	0.004354438
RP11-455F5.3	CD28	0.971169456	0.001234818
RP11-326C3.2	CD28	0.995540923	2.98E-05
AP006621.8	CD28	0.989317143	0.000170576
RP11-473M20.11	P4HA1	0.868306821	0.024872657
JHDM1D-AS1	CD28	0.970069989	0.001330303
RP11-680G24.6	P4HA1	0.891901998	0.016896195
RP11-20I23.6	CD28	0.980234869	0.00058213
RP11-160E2.19	CD28	0.994318605	4.83E-05
AC005786.7	CD28	0.960786461	0.002276403
AC005944.2	CD28	0.956192404	0.002836622

CTB-191K22.5	CD28	0.924863104	0.008256235
RP11-20I23.8	CD28	0.973298162	0.001059963
CDC37L1-AS1	CD28	0.94611681	0.004276875
RP11-473M20.11	RAB34	0.895379169	0.015845713
RP5-1142A6.10	CD28	0.978717119	0.000674621
RP11-680G24.6	RAB34	0.82044602	0.045465071
LA16c-359F1.1	RAB34	0.874448187	0.022655334
RP11-556I13.1	CD28	0.970033878	0.001333498
AC024028.1	CD300A	0.994821916	4.01E-05
RP11-498J9.2	CD300A	0.944311596	0.004565447
RP11-34P13.14	CD300A	0.921350948	0.009035261
RP11-473M20.11	CD300A	0.99559612	2.90E-05
AC024028.1	CD300C	0.924874862	0.008253684
RP11-473M20.11	GPRC5C	0.913095098	0.01100052
RP11-498J9.2	CD300C	0.983583382	0.000402046
RP11-680G24.6	GPRC5C	0.851262483	0.031539025
LA16c-359F1.1	GPRC5C	0.899912721	0.014524885
RP11-34P13.14	CD300C	0.933411382	0.006503438
RP11-93O14.2	CD300C	0.964337661	0.001885026
RP11-485G7.6	CD300C	0.980176147	0.000585582
RP11-78A19.3	CD300C	0.960442653	0.002316226
Z69720.3	CD300C	0.963362458	0.001988875
AC024028.1	CD300E	0.963188557	0.002007682
RP11-473M20.11	PRNP	0.870964931	0.023900853
RP11-498J9.2	CD300E	0.999967187	1.61E-09
RP11-680G24.6	PRNP	0.880154976	0.020683588
RP11-34P13.14	CD300E	0.97736519	0.000762704
RP11-93O14.2	CD300E	0.982514588	0.000455936
RP11-485G7.6	CD300E	0.966817009	0.001633397
RP11-78A19.3	CD300E	0.982871927	0.000437544
Z69720.3	CD300E	0.986647407	0.000266247
RP11-160E2.19	CD300LB	0.950075705	0.003676436
AC011558.5	CD300LB	0.982040866	0.0004809
RP11-473M20.11	THBS1	0.914175236	0.010732747
AC011558.5	CD300LF	0.974464213	0.000969789
RP11-680G24.6	THBS1	0.859358488	0.028279105
LA16c-359F1.1	THBS1	0.909168385	0.012000876
AC024028.1	CD34	0.963991544	0.001921569
RP11-498J9.2	CD34	0.999997105	1.26E-11
RP11-34P13.14	CD34	0.978533868	0.000686247
RP11-93O14.2	CD34	0.983369414	0.000412565
RP11-485G7.6	CD34	0.965574298	0.001757294
RP11-78A19.3	CD34	0.983565303	0.000402929
RP11-473M20.11	PMAIP1	0.87892645	0.02110081
Z69720.3	CD34	0.986426908	0.000275093
RP11-680G24.6	PMAIP1	0.897117676	0.015332666
AC024028.1	CD37	0.989017146	0.000180272
RP11-498J9.2	CD37	0.922532235	0.00876943
RP11-473M20.11	CD37	0.996503878	1.83E-05
CTA-315H11.2	CD3D	-0.963090116	0.002018367
RP11-66D17.5	CD3D	0.923046193	0.008654977
RP11-126K1.8	CD3D	0.959757804	0.002396567
RP11-485G7.6	PTGER4	0.91262225	0.011118748
RP3-438O4.4	CD3D	0.978618697	0.000680853
NUP50-AS1	CD3D	0.969368113	0.001393098
LA16c-359F1.1	PTGER4	0.845644398	0.033899666
PSMD5-AS1	CD3D	0.988728138	0.000189866
AC024028.1	SOCS1	0.914620327	0.010623337
TOPORS-AS1	CD3D	0.970469545	0.001295196
AC087294.2	CD3D	0.991746742	0.000101893
AP001062.8	CD3D	0.979520127	0.000624843
RP11-455F5.3	CD3D	0.994764012	4.11E-05
RP11-473M20.11	SOCS1	0.856099089	0.029571296

RP11-326C3.2	CD3D	0.99822623	4.72E-06
RP11-680G24.6	SOCS1	0.848408567	0.032728161
AP006621.8	CD3D	0.992585013	8.23E-05
JHDM1D-AS1	CD3D	0.995127301	3.56E-05
RP11-20I23.6	CD3D	0.996187451	2.18E-05
RP11-160E2.19	CD3D	0.968769838	0.001447755
AC005786.7	CD3D	0.984539117	0.00035671
AC005944.2	CD3D	0.96413878	0.001905981
CTB-191K22.5	CD3D	0.96039005	0.002322349
RP11-20I23.8	CD3D	0.996002587	2.39E-05
CDC37L1-AS1	CD3D	0.981862722	0.000490458
RP11-680G24.6	ADAM10	0.857318637	0.029084605
LA16c-359F1.1	ADAM10	0.888103154	0.018080832
RP5-1142A6.10	CD3D	0.988279766	0.000205241
RP11-556I13.1	CD3D	0.995114653	3.57E-05
CTA-315H11.2	CD3E	-0.961721272	0.002169847
RP11-66D17.5	CD3E	0.926849943	0.007830686
RP11-126K1.8	CD3E	0.959904565	0.002379236
RP3-438O4.4	CD3E	0.980037572	0.00059377
RP11-473M20.11	EGR2	0.913050628	0.011011613
NUP50-AS1	CD3E	0.971324725	0.001221618
RP11-680G24.6	EGR2	0.853413763	0.0306564
LA16c-359F1.1	EGR2	0.901392712	0.014105697
PSMD5-AS1	CD3E	0.989469873	0.000165742
TOPORS-AS1	CD3E	0.972191863	0.001149187
AC087294.2	CD3E	0.992555367	8.29E-05
AP001062.8	CD3E	0.980537842	0.000564478
RP11-455F5.3	CD3E	0.995176241	3.48E-05
RP11-485G7.6	RUNX1	0.886038293	0.01874088
RP11-326C3.2	CD3E	0.998278398	4.44E-06
AP006621.8	CD3E	0.992785686	7.79E-05
RP11-680G24.6	RUNX1	0.840627408	0.036075433
LA16c-359F1.1	RUNX1	0.861404599	0.02748191
JHDM1D-AS1	CD3E	0.995670557	2.81E-05
RP11-20I23.6	CD3E	0.997421267	9.97E-06
RP11-160E2.19	CD3E	0.969774265	0.001356586
AC005786.7	CD3E	0.986754596	0.000261999
AC005944.2	CD3E	0.967444668	0.001572523
CTB-191K22.5	CD3E	0.962976944	0.002030686
RP11-473M20.11	LIF	0.91368267	0.010854461
RP11-20I23.8	CD3E	0.996692002	1.64E-05
RP11-680G24.6	LIF	0.849923243	0.032094458
LA16c-359F1.1	LIF	0.89975247	0.014570629
CDC37L1-AS1	CD3E	0.983596894	0.000401386
RP5-1142A6.10	CD3E	0.990308851	0.000140422
RP11-556I13.1	CD3E	0.995662061	2.82E-05
CTA-315H11.2	CD3G	-0.966786931	0.001636343
RP11-126K1.8	CD3G	0.951378764	0.003488566
RP11-485G7.6	ARHGEF6	0.872663879	0.023289387
RP11-473M20.11	ARHGEF6	0.900989866	0.014219211
RP3-438O4.4	CD3G	0.970090312	0.001328506
RP11-680G24.6	ARHGEF6	0.887406542	0.018302241
LA16c-359F1.1	ARHGEF6	0.873478656	0.022998821
NUP50-AS1	CD3G	0.962650674	0.002066408
PSMD5-AS1	CD3G	0.99039477	0.000137948
TOPORS-AS1	CD3G	0.964808391	0.001835882
AC087294.2	CD3G	0.986412622	0.000275671
AP001062.8	CD3G	0.972426484	0.001129966
RP11-485G7.6	AHNAK	0.876343136	0.02199111
RP11-473M20.11	AHNAK	0.850223819	0.031969399
RP11-455F5.3	CD3G	0.990422331	0.000137158
RP11-680G24.6	AHNAK	0.905736408	0.012909642
LA16c-359F1.1	AHNAK	0.880066551	0.020713485

RP11-326C3.2	CD3G	0.999895579	1.64E-08
AP006621.8	CD3G	0.994239164	4.97E-05
CTD-2139B15.2	TMEM173	-0.852076053	0.031203842
RP11-91K8.5	TMEM173	-0.913086478	0.01100267
JHDM1D-AS1	CD3G	0.990402534	0.000137725
RP11-20I23.6	CD3G	0.99454461	4.46E-05
RP11-160E2.19	CD3G	0.979330117	0.000636451
AC005786.7	CD3G	0.981063874	0.00053447
AC005944.2	CD3G	0.966125523	0.001701785
RP11-473M20.11	ETS2	0.878297741	0.021315867
CTB-191K22.5	CD3G	0.953701877	0.003165654
RP11-680G24.6	ETS2	0.880107244	0.020699724
LA16c-359F1.1	ETS2	0.895936891	0.015680239
RP11-20I23.8	CD3G	0.992069931	9.41E-05
CDC37L1-AS1	CD3G	0.97458692	0.000960531
RP5-1142A6.10	CD3G	0.988922861	0.000183375
RP11-556I13.1	CD3G	0.990384532	0.000138241
RP5-1142A6.10	CD4	0.9320842	0.006762201
CTB-31O20.6	CD40	0.918922343	0.009593894
RP11-473M20.11	MS4A3	0.905984951	0.012842753
AC024028.1	CD44	0.992088502	9.36E-05
RP11-680G24.6	MS4A3	0.840678567	0.036052925
LA16c-359F1.1	MS4A3	0.896067682	0.015641555
RP11-498J9.2	CD44	0.981821489	0.000492684
RP11-34P13.14	CD44	0.956834391	0.00275469
RP11-93O14.2	CD44	0.938998944	0.005468197
RP11-485G7.6	CD44	0.921835516	0.00892575
RP11-473M20.11	CD44	0.970878523	0.001259742
RP11-485G7.6	SAMSN1	0.905813763	0.012888806
RP11-473M20.11	SAMSN1	0.871101057	0.023851582
RP11-78A19.3	CD44	0.948528768	0.003905751
RP11-680G24.6	SAMSN1	0.910907229	0.011552695
LA16c-359F1.1	SAMSN1	0.903385231	0.013550699
Z69720.3	CD44	0.957214652	0.002706718
RP3-337H4.8	PTPRC	-0.839301823	0.036660929
AC011558.5	CD48	0.939419882	0.005393763
AC024028.1	CD53	0.954603539	0.003044481
RP11-473M20.11	CD53	0.971973444	0.001167225
AC011558.5	CD55	0.956658133	0.002777067
RP11-91K8.5	CD58	0.961141461	0.002235641
CTA-315H11.2	CD6	-0.963386384	0.001986294
RP11-66D17.5	CD6	0.922808127	0.008707901
RP11-126K1.8	CD6	0.957244082	0.002703022
RP3-438O4.4	CD6	0.977397354	0.000760546
RP11-473M20.11	IL1RL1	0.897567284	0.015201306
NUP50-AS1	CD6	0.968832064	0.001442021
RP11-680G24.6	IL1RL1	0.888536	0.017943908
LA16c-359F1.1	IL1RL1	0.915273664	0.010463722
PSMD5-AS1	CD6	0.989768403	0.000156493
TOPORS-AS1	CD6	0.970361658	0.001304629
RP11-680G24.6	DYRK1A	0.877262122	0.021672382
RP3-339A18.6	DYRK1A	0.876047454	0.022094132
CTC-1337H24.3	DYRK1A	-0.841299246	0.035780381
AC024028.1	ACTR2	0.833094501	0.039461388
RP11-498J9.2	ACTR2	0.856396566	0.029452228
AC087294.2	CD6	0.990919086	0.00012332
RP11-93O14.2	ACTR2	0.888845465	0.01784632
RP11-118G23.2	ACTR2	0.824913267	0.043299373
RP11-78A19.3	ACTR2	0.864766063	0.026195733
RP11-680G24.6	ACTR2	0.903036394	0.013647088
LA16c-359F1.1	ACTR2	0.826271622	0.042650628
Z69720.3	ACTR2	0.886947959	0.0184487
RP3-337H4.8	ACTR2	-0.820224732	0.045573629

AP001062.8	CD6	0.978214772	0.000706725
RP11-455F5.3	CD6	0.993915941	5.54E-05
RP11-326C3.2	CD6	0.998972413	1.58E-06
AP006621.8	CD6	0.99326354	6.79E-05
JHDM1D-AS1	CD6	0.994339585	4.80E-05
RP11-473M20.11	CD83	0.910266773	0.01171681
RP11-20I23.6	CD6	0.99681864	1.52E-05
RP11-680G24.6	CD83	0.851562054	0.031415408
LA16c-359F1.1	CD83	0.899729128	0.014577298
RP11-160E2.19	CD6	0.972866569	0.001094346
AC005786.7	CD6	0.985344238	0.000320613
AC005944.2	CD6	0.967080505	0.001607702
CTB-191K22.5	CD6	0.960282213	0.002334927
RP11-20I23.8	CD6	0.995539491	2.98E-05
CDC37L1-AS1	CD6	0.98127663	0.000522565
RP11-473M20.11	TIPARP	0.895068643	0.015938206
RP5-1142A6.10	CD6	0.990180673	0.000144155
RP11-680G24.6	TIPARP	0.88049041	0.020570363
RP11-556I13.1	CD6	0.994330474	4.81E-05
AC024028.1	CD69	0.966111982	0.001703138
RP11-498J9.2	CD69	0.997643637	8.32E-06
RP11-34P13.14	CD69	0.990278668	0.000141297
RP11-93O14.2	CD69	0.984876177	0.000341365
RP11-485G7.6	CD69	0.950165392	0.00366335
RP11-485G7.6	AHSA2	0.906678032	0.012657114
RP11-78A19.3	CD69	0.982914163	0.000435395
Z69720.3	CD69	0.990575767	0.000132806
RP11-680G24.6	AHSA2	0.873314283	0.023057299
LA16c-359F1.1	AHSA2	0.898018601	0.015069995
AC024028.1	CD72	0.973647567	0.001032526
AC024028.1	BHLHE40	0.904073521	0.013361482
RP11-498J9.2	CD72	0.962637837	0.002067819
RP11-473M20.11	CD72	0.957434185	0.002679211
Z69720.3	CD72	0.923126621	0.008637132
AC024028.1	CD83	0.961788929	0.002162233
RP11-473M20.11	BHLHE40	0.844991653	0.034179143
RP11-498J9.2	CD83	0.999888935	1.85E-08
RP11-680G24.6	BHLHE40	0.891677201	0.016965223
RP11-34P13.14	CD83	0.978818695	0.00066822
RP11-93O14.2	CD83	0.984050423	0.000379555
RP11-485G7.6	CD83	0.965966572	0.001717701
RP11-78A19.3	CD83	0.983255037	0.000418243
Z69720.3	CD83	0.987539975	0.000231911
AC024028.1	CD84	0.940373695	0.00522695
RP11-498J9.2	CD84	0.985193151	0.000327241
RP11-473M20.11	IGHM	0.902665142	0.013750033
RP11-34P13.14	CD84	0.993134211	7.05E-05
RP11-680G24.6	IGHM	0.853721205	0.03053123
LA16c-359F1.1	IGHM	0.911037981	0.011519328
RP11-93O14.2	CD84	0.980871695	0.000545339
RP11-485G7.6	CD84	0.932902059	0.006602159
RP11-78A19.3	CD84	0.970967224	0.001252117
Z69720.3	CD84	0.994894237	3.90E-05
RP11-498J9.2	CD86	0.96289974	0.002039111
RP11-93O14.2	CD86	0.931001521	0.006976941
RP11-473M20.11	PTGS2	0.913577287	0.010880587
RP11-485G7.6	CD86	0.977510543	0.000752976
RP11-680G24.6	PTGS2	0.86005094	0.028008106
LA16c-359F1.1	PTGS2	0.901793779	0.01399312
RP11-78A19.3	CD86	0.927842021	0.007622306
Z69720.3	CD86	0.948436888	0.003919585
CTA-315H11.2	CD8A	-0.968597762	0.001463668
RP11-126K1.8	CD8A	0.944547509	0.004527211

RP3-438O4.4	CD8A	0.963543001	0.001969441
NUP50-AS1	CD8A	0.956257439	0.002828269
PSMD5-AS1	CD8A	0.989443283	0.000166578
TOPORS-AS1	CD8A	0.96002774	0.002364739
RP11-680G24.6	TSPYL2	0.828071483	0.041798069
LA16c-359F1.1	TSPYL2	0.873055766	0.023149415
AC087294.2	CD8A	0.981767321	0.000495615
AP001062.8	CD8A	0.96636877	0.001677757
RP11-455F5.3	CD8A	0.986500856	0.00027211
RP11-326C3.2	CD8A	0.999900552	1.48E-08
AP006621.8	CD8A	0.993675799	5.99E-05
JHDM1D-AS1	CD8A	0.986387069	0.000276706
RP11-20I23.6	CD8A	0.99198465	9.61E-05
RP11-160E2.19	CD8A	0.984114365	0.000376526
AC005786.7	CD8A	0.976936804	0.000791733
RP11-680G24.6	NFKBIZ	0.830399543	0.040707252
LA16c-359F1.1	NFKBIZ	0.874573383	0.022611159
AC005944.2	CD8A	0.963808079	0.00194108
CTB-191K22.5	CD8A	0.946835544	0.004164555
RP11-20I23.8	CD8A	0.988392819	0.000201308
CDC37L1-AS1	CD8A	0.968647012	0.001459105
RP5-1142A6.10	CD8A	0.987353362	0.000238895
RP11-556I13.1	CD8A	0.98636919	0.000277432
RP11-473M20.11	TPM4	0.912770018	0.011081735
CTA-315H11.2	CD8B	-0.963782913	0.001943763
RP11-680G24.6	TPM4	0.878867714	0.021120857
LA16c-359F1.1	TPM4	0.899799237	0.014557272
RP11-66D17.5	CD8B	0.921812406	0.008930958
RP11-126K1.8	CD8B	0.957231279	0.00270463
RP3-438O4.4	CD8B	0.974767883	0.000946957
NUP50-AS1	CD8B	0.968420516	0.001480149
PSMD5-AS1	CD8B	0.99150459	0.000107951
TOPORS-AS1	CD8B	0.968497103	0.001473017
AC087294.2	CD8B	0.989816387	0.000155031
AP001062.8	CD8B	0.977399153	0.000760425
RP11-455F5.3	CD8B	0.993200785	6.92E-05
RP11-326C3.2	CD8B	0.999319883	6.94E-07
AP006621.8	CD8B	0.994710104	4.19E-05
JHDM1D-AS1	CD8B	0.992997103	7.34E-05
RP11-20I23.6	CD8B	0.996406193	1.93E-05
RP11-473M20.11	ZNF331	0.90743348	0.01245626
RP11-160E2.19	CD8B	0.975459437	0.000895969
RP11-680G24.6	ZNF331	0.873913065	0.022844613
LA16c-359F1.1	ZNF331	0.913539999	0.010889839
AC005786.7	CD8B	0.984587542	0.000354485
AC005944.2	CD8B	0.969547224	0.001376937
CTB-191K22.5	CD8B	0.960097217	0.002356581
RP11-20I23.8	CD8B	0.994536522	4.47E-05
CDC37L1-AS1	CD8B	0.978701428	0.000675613
RP11-485G7.6	SNORD3C	0.902428725	0.013815784
RP11-473M20.11	SNORD3C	0.850356726	0.031914175
RP5-1142A6.10	CD8B	0.990456008	0.000136197
RP11-680G24.6	SNORD3C	0.901675784	0.014026195
LA16c-359F1.1	SNORD3C	0.890526642	0.017320637
RP11-556I13.1	CD8B	0.992972717	7.39E-05
CTA-315H11.2	CD97	-0.930173747	0.007143332
RP11-326C3.2	CD97	0.929251863	0.007330891
RP11-160E2.19	CD97	0.978836746	0.000667086
AC011558.5	CD97	0.983483924	0.000406919
CTD-2139B15.2	CDC20	0.923767388	0.008495607
RP11-473M20.11	PTGS1	0.87674882	0.021850135
CTA-315H11.2	CDC20B	-0.945741186	0.004336159
RP11-680G24.6	PTGS1	0.886815884	0.018490985

RP11-66D17.5	CDC20B	0.950244931	0.003651764
RP11-126K1.8	CDC20B	0.97284269	0.001096265
AC024028.1	CTSC	0.862166596	0.027187788
RP3-438O4.4	CDC20B	0.993698542	5.94E-05
RP11-34P13.14	CTSC	0.907492091	0.012440742
NUP50-AS1	CDC20B	0.983525845	0.000404861
PSMD5-AS1	CDC20B	0.982245427	0.000470039
RP11-78A19.3	CTSC	0.909549775	0.011901867
LA16c-359F1.1	CTSC	0.840848415	0.035978247
TOPORS-AS1	CDC20B	0.980052526	0.000592884
AC087294.2	CDC20B	0.998911004	1.78E-06
AP001062.8	CDC20B	0.991493281	0.000108239
RP11-455F5.3	CDC20B	0.998826662	2.06E-06
RP11-326C3.2	CDC20B	0.988496209	0.000197745
AP006621.8	CDC20B	0.984286293	0.000368441
RP11-473M20.11	EGR3	0.913702269	0.010849605
JHDM1D-AS1	CDC20B	0.999999212	9.32E-13
RP11-680G24.6	EGR3	0.851002764	0.031646382
LA16c-359F1.1	EGR3	0.899862022	0.014539349
RP11-20I23.6	CDC20B	0.996735909	1.60E-05
RP11-160E2.19	CDC20B	0.943792601	0.00465012
AC005786.7	CDC20B	0.991761865	0.000101521
AC005944.2	CDC20B	0.965172813	0.001798278
CTB-191K22.5	CDC20B	0.976773127	0.000802966
RP11-485G7.6	HIST1H2BK	0.900637279	0.014318924
RP11-20I23.8	CDC20B	0.999768356	8.05E-08
CDC37L1-AS1	CDC20B	0.995258828	3.37E-05
LA16c-359F1.1	HIST1H2BK	0.843185567	0.034958056
RP5-1142A6.10	CDC20B	0.986392451	0.000276488
RP11-556I13.1	CDC20B	1	0
CTD-2139B15.2	CDC20P1	0.951051007	0.003535365
RP3-337H4.8	CDC25C	0.937770241	0.005688321
MIR210HG	CDC25C	0.921114651	0.0090889
CTA-315H11.2	CDC42SE1	-0.956130488	0.002844587
RP11-473M20.11	ENO2	0.860464191	0.027846965
PSMD5-AS1	CDC42SE1	0.924944282	0.008238633
RP11-680G24.6	ENO2	0.861919479	0.027283008
RP11-326C3.2	CDC42SE1	0.951548606	0.003464436
AP006621.8	CDC42SE1	0.935260606	0.006151116
RP11-160E2.19	CDC42SE1	0.985883031	0.000297527
AC011558.5	CDC42SE1	0.966990037	0.001616502
AC011558.5	CDC6	-0.954484843	0.003060299
RP11-77G23.2	CDC7	0.920199971	0.009297982
RP11-485G7.6	FAM49B	0.896934184	0.015386432
CTD-2541M15.3	CDC7	0.985812947	0.000300481
CTD-2139B15.2	CDCA3	0.949845106	0.003710187
RP11-680G24.6	FAM49B	0.848748636	0.032585376
LA16c-359F1.1	FAM49B	0.87216583	0.023467857
CTD-2139B15.2	CDCA5	0.934600621	0.006275759
AC024028.1	RHOC	0.914482793	0.010657087
CTD-2139B15.2	CDCA8	0.9458704	0.00431572
AC024028.1	CDCP1	0.937282035	0.005776963
RP11-498J9.2	CDCP1	0.994663496	4.26E-05
RP11-34P13.14	CDCP1	0.963173037	0.002009365
RP11-473M20.11	RHOC	0.842997029	0.035039843
RP11-93O14.2	CDCP1	0.980262965	0.000580482
RP11-680G24.6	RHOC	0.878945766	0.021094219
RP11-485G7.6	CDCP1	0.978618361	0.000680874
RP11-78A19.3	CDCP1	0.976158263	0.000845866
Z69720.3	CDCP1	0.985476787	0.000314854
CTA-315H11.2	CDH23	-0.961671852	0.002175417
RP3-438O4.4	CDH23	0.919291193	0.009508002
PSMD5-AS1	CDH23	0.974010481	0.001004405

TOPORS-AS1	CDH23	0.927755233	0.007640426
RP11-473M20.11	CSRNP1	0.884959425	0.019090258
AC087294.2	CDH23	0.947276155	0.004096425
RP11-680G24.6	CSRNP1	0.891466221	0.017030131
AP001062.8	CDH23	0.925662289	0.008083744
RP11-455F5.3	CDH23	0.955443202	0.002933733
RP11-326C3.2	CDH23	0.98839481	0.000201239
AP006621.8	CDH23	0.979722361	0.000612605
JHDM1D-AS1	CDH23	0.954383315	0.003073861
RP11-20I23.6	CDH23	0.968482087	0.001474414
RP11-160E2.19	CDH23	0.99771572	7.82E-06
RP11-473M20.11	FAM53C	0.91389195	0.010802666
AC005786.7	CDH23	0.946867826	0.004159545
RP11-680G24.6	FAM53C	0.856250696	0.029510586
LA16c-359F1.1	FAM53C	0.899798879	0.014557374
AC005944.2	CDH23	0.94365176	0.00467323
RP11-20I23.8	CDH23	0.958317997	0.002569875
RP11-498J9.2	LCP2	0.842374969	0.035310327
RP11-34P13.14	LCP2	0.886327187	0.01864785
CDC37L1-AS1	CDH23	0.926624198	0.007878485
Z69720.3	LCP2	0.836856796	0.037752472
CTD-2139B15.2	LCP2	-0.847295985	0.033197359
RP5-1142A6.10	CDH23	0.970494256	0.00129304
RP11-556I13.1	CDH23	0.954356234	0.003077484
AC011558.5	CDH23	0.93859613	0.005539893
CTA-315H11.2	CDHR3	-0.96154957	0.00218923
PSMD5-AS1	CDHR3	0.964952458	0.00182097
AC087294.2	CDHR3	0.932953133	0.006592226
RP11-455F5.3	CDHR3	0.942481711	0.004867385
RP11-680G24.6	SLC2A3	0.855052252	0.029992109
LA16c-359F1.1	SLC2A3	0.881441223	0.020251033
RP11-326C3.2	CDHR3	0.981619525	0.000503658
AP006621.8	CDHR3	0.971771751	0.001184004
JHDM1D-AS1	CDHR3	0.94153095	0.005028003
RP11-20I23.6	CDHR3	0.956734585	0.00276735
RP11-160E2.19	CDHR3	0.997405993	1.01E-05
AC005786.7	CDHR3	0.93163021	0.006851847
RP11-473M20.11	OSM	0.893884412	0.016293319
AC005944.2	CDHR3	0.930249179	0.007128091
RP11-680G24.6	OSM	0.82866047	0.041520824
LA16c-359F1.1	OSM	0.892531274	0.016703684
RP11-20I23.8	CDHR3	0.9457423	0.004335982
RP5-1142A6.10	CDHR3	0.95893625	0.002494726
RP11-498J9.2	CAP1	0.853061984	0.030799917
RP11-34P13.14	CAP1	0.916800467	0.010095283
RP11-93O14.2	CAP1	0.822589773	0.044419644
RP11-473M20.11	CAP1	0.906579857	0.012683331
RP11-78A19.3	CAP1	0.812943924	0.04921242
Z69720.3	CAP1	0.864232256	0.026398025
RP3-337H4.8	CAP1	-0.84342646	0.034853688
CTD-2139B15.2	CAP1	-0.842201325	0.035386006
RP11-556I13.1	CDHR3	0.941509	0.005031741
RP11-498J9.2	ANXA1	0.878561828	0.021225406
RP11-34P13.14	ANXA1	0.915079049	0.010511145
RP11-93O14.2	ANXA1	0.824467219	0.043513399
AC011558.5	CDHR3	0.948462158	0.003915778
RP11-78A19.3	ANXA1	0.826475636	0.042553587
Z69720.3	ANXA1	0.874722896	0.022558458
CTD-2541M15.3	CDK1	0.946333957	0.004242786
RP11-498J9.2	CDK14	0.952778999	0.003292087
RP11-93O14.2	CDK14	0.951484261	0.003473568
RP11-485G7.6	CDK14	0.962135293	0.00212346
RP11-78A19.3	CDK14	0.945252306	0.004413917

RP11-165D6.1	CDK15	0.921261377	0.009055575
RP3-339A18.6	CDK6	0.96775629	0.001542724
RP11-680G24.6	SVIL	0.841408921	0.035732323
LA16c-359F1.1	SVIL	0.891999761	0.016866217
AC005944.2	CDKAL1	-0.95230419	0.003358084
CTA-315H11.2	CDKL1	-0.95104478	0.003536257
RP11-66D17.5	CDKL1	0.943871515	0.004637196
RP11-126K1.8	CDKL1	0.966681721	0.001646668
RP3-438O4.4	CDKL1	0.992982939	7.37E-05
NUP50-AS1	CDKL1	0.977657838	0.000743182
RP11-473M20.11	CCL2	0.873303027	0.023061307
PSMD5-AS1	CDKL1	0.978104456	0.000713874
LA16c-359F1.1	CCL2	0.871118657	0.023845215
TOPORS-AS1	CDKL1	0.975394156	0.000900723
AC024028.1	NBPF8	0.907375138	0.012471716
AC087294.2	CDKL1	0.996566357	1.77E-05
AP001062.8	CDKL1	0.98719675	0.000244835
RP11-455F5.3	CDKL1	0.996381268	1.96E-05
RP11-326C3.2	CDKL1	0.986923286	0.000255383
RP11-473M20.11	NBPF8	0.857197674	0.029132708
AP006621.8	CDKL1	0.98085164	0.000546479
RP11-680G24.6	NBPF8	0.895645871	0.01576648
JHDM1D-AS1	CDKL1	0.99895589	1.63E-06
RP11-20123.6	CDKL1	0.994285754	4.89E-05
RP11-160E2.19	CDKL1	0.942059431	0.004938408
AC005786.7	CDKL1	0.987939347	0.000217312
AC005944.2	CDKL1	0.958875739	0.002502032
CTB-191K22.5	CDKL1	0.971614805	0.001197144
RP11-20123.8	CDKL1	0.998310122	4.28E-06
RP11-473M20.11	CCL3	0.90226091	0.013862547
CDC37L1-AS1	CDKL1	0.996178026	2.19E-05
RP11-680G24.6	CCL3	0.833614296	0.039223176
LA16c-359F1.1	CCL3	0.890722362	0.017259928
RP5-1142A6.10	CDKL1	0.982102194	0.000477631
RP11-498J9.2	HLA-DMA	0.869126225	0.024571118
RP11-93O14.2	HLA-DMA	0.846467725	0.033548695
RP11-485G7.6	HLA-DMA	0.913175621	0.010980448
RP11-78A19.3	HLA-DMA	0.833746451	0.03916272
Z69720.3	HLA-DMA	0.836877478	0.037743176
RP11-556I13.1	CDKL1	0.998990775	1.53E-06
AC024028.1	CDKN1A	0.956690666	0.00277293
RP11-498J9.2	CDKN1A	0.999608632	2.30E-07
RP11-34P13.14	CDKN1A	0.977044176	0.000784406
RP11-93O14.2	CDKN1A	0.98523341	0.000325468
RP11-473M20.11	PPIF	0.8703638	0.024119013
RP11-485G7.6	CDKN1A	0.970699174	0.00127523
RP11-680G24.6	PPIF	0.860104559	0.027987173
LA16c-359F1.1	PPIF	0.898047745	0.015061534
RP11-78A19.3	CDKN1A	0.984850451	0.000342525
Z69720.3	CDKN1A	0.98774564	0.000224334
RP11-498J9.2	CDKN1C	0.945504297	0.004373752
RP11-93O14.2	CDKN1C	0.97186591	0.001176156
RP11-485G7.6	CDKN1C	0.970981548	0.001250888
RP11-78A19.3	CDKN1C	0.982646752	0.00044909
RP11-473M20.11	LTC4S	0.909563519	0.011898307
LA16c-359F1.1	CDKN1C	0.968839028	0.001441381
RP11-680G24.6	LTC4S	0.854154358	0.030355289
LA16c-359F1.1	LTC4S	0.900818126	0.014267738
CTA-315H11.2	CDKN2D	-0.947614539	0.004044476
RP11-66D17.5	CDKN2D	0.949162948	0.003810917
RP11-126K1.8	CDKN2D	0.972920727	0.001090002
RP3-438O4.4	CDKN2D	0.992650744	8.08E-05
NUP50-AS1	CDKN2D	0.983317957	0.000415115

PSMD5-AS1	CDKN2D	0.98391602	0.000385961
RP11-473M20.11	ITGA2B	0.902195909	0.013880681
TOPORS-AS1	CDKN2D	0.97937911	0.000633447
RP11-680G24.6	ITGA2B	0.843091995	0.034998636
LA16c-359F1.1	ITGA2B	0.890759499	0.017248421
AC087294.2	CDKN2D	0.998834034	2.04E-06
AP001062.8	CDKN2D	0.991284693	0.000113604
RP11-455F5.3	CDKN2D	0.999057508	1.33E-06
RP11-326C3.2	CDKN2D	0.98976713	0.000156532
AP006621.8	CDKN2D	0.985939489	0.000295157
JHDM1D-AS1	CDKN2D	0.999956649	2.82E-09
RP11-20I23.6	CDKN2D	0.997197837	1.18E-05
RP11-160E2.19	CDKN2D	0.946586221	0.004203352
RP11-680G24.6	DUSP2	0.840076542	0.036318206
LA16c-359F1.1	DUSP2	0.885201489	0.0190116
AC005786.7	CDKN2D	0.991718394	0.000102593
AC005944.2	CDKN2D	0.966703815	0.001644497
CTB-191K22.5	CDKN2D	0.976587624	0.000815792
RP11-20I23.8	CDKN2D	0.999902461	1.43E-08
CDC37L1-AS1	CDKN2D	0.99435076	4.78E-05
RP5-1142A6.10	CDKN2D	0.987148565	0.000246678
RP11-473M20.11	HDC	0.911699757	0.011351164
RP11-556I13.1	CDKN2D	0.999950937	3.61E-09
RP11-680G24.6	HDC	0.853861112	0.030474349
LA16c-359F1.1	HDC	0.900552253	0.01434302
CTD-2139B15.2	CDT1	0.964960856	0.001820103
CTA-315H11.2	CEACAM21	-0.956911046	0.002744986
PSMD5-AS1	CEACAM21	0.975536286	0.00089039
AC087294.2	CEACAM21	0.934989037	0.006202256
AP001062.8	CEACAM21	0.917384661	0.009956004
RP11-455F5.3	CEACAM21	0.945185499	0.004424596
RP11-326C3.2	CEACAM21	0.978879475	0.000664404
AP006621.8	CEACAM21	0.979221973	0.000643104
RP11-680G24.6	MYADM	0.837694753	0.037376687
LA16c-359F1.1	MYADM	0.880712866	0.020495437
JHDM1D-AS1	CEACAM21	0.940023292	0.005287934
RP11-20I23.6	CEACAM21	0.956183865	0.00283772
RP11-160E2.19	CEACAM21	0.994431105	4.64E-05
AC005786.7	CEACAM21	0.932861078	0.006610133
AC005944.2	CEACAM21	0.949230997	0.003800809
RP11-485G7.6	SGK1	0.896361851	0.015554717
RP11-473M20.11	SGK1	0.901043856	0.014203973
RP11-20I23.8	CEACAM21	0.945434368	0.00438488
RP11-680G24.6	SGK1	0.883969018	0.01941371
LA16c-359F1.1	SGK1	0.879416167	0.020934019
RP5-1142A6.10	CEACAM21	0.958867814	0.00250299
CTD-2139B15.2	SNORD15B	-0.907488728	0.012441632
RP11-556I13.1	CEACAM21	0.939889077	0.005311384
AC011558.5	CEACAM21	0.935301375	0.006143457
RP3-438O4.4	CEACAM4	0.931490726	0.006879506
NUP50-AS1	CEACAM4	0.933927657	0.006404111
PSMD5-AS1	CEACAM4	0.952567338	0.003321428
RP11-473M20.11	CDKN1A	0.903359069	0.013557917
TOPORS-AS1	CEACAM4	0.966428783	0.001671622
RP11-680G24.6	CDKN1A	0.856479957	0.029418891
LA16c-359F1.1	CDKN1A	0.906862592	0.012607901
AC087294.2	CEACAM4	0.946617951	0.004198405
AC024028.1	HLA-DPB1	0.882557936	0.01987904
AP001062.8	CEACAM4	0.931258042	0.006925767
RP11-34P13.14	HLA-DPB1	0.888073993	0.018090074
RP11-455F5.3	CEACAM4	0.947741585	0.004025056
RP11-326C3.2	CEACAM4	0.96825883	0.001495263
RP11-473M20.11	HLA-DPB1	0.821645507	0.044878731

AP006621.8	CEACAM4	0.953966933	0.003129792
LA16c-359F1.1	HLA-DPB1	0.823685849	0.043889509
JHDM1D-AS1	CEACAM4	0.94796711	0.003990695
RP11-20I23.6	CEACAM4	0.969467476	0.001384121
RP11-160E2.19	CEACAM4	0.970271463	0.001312542
AC005786.7	CEACAM4	0.967795247	0.001539019
AC005944.2	CEACAM4	0.946868822	0.004159391
RP11-485G7.6	CST7	0.907308724	0.012489323
CTB-191K22.5	CEACAM4	0.917384307	0.009956088
RP11-20I23.8	CEACAM4	0.952008269	0.003399542
CDC37L1-AS1	CEACAM4	0.931415733	0.006894399
AC024028.1	IFI27L2	0.871245046	0.023799518
RP5-1142A6.10	CEACAM4	0.985624966	0.000308477
RP11-34P13.14	IFI27L2	0.886405482	0.018622676
RP11-93O14.2	IFI27L2	0.915756545	0.010346503
RP11-556I13.1	CEACAM4	0.947991724	0.003986954
RP11-78A19.3	IFI27L2	0.912223059	0.011219036
LA16c-359F1.1	IFI27L2	0.838682093	0.036936175
AC024028.1	CEBPA	0.97856994	0.00068395
RP11-498J9.2	CEBPA	0.979534341	0.000623979
RP11-34P13.14	CEBPA	0.937574997	0.00572369
RP11-93O14.2	CEBPA	0.938508085	0.005555625
RP11-485G7.6	CEBPA	0.933094448	0.006564783
RP11-473M20.11	CEBPA	0.952552438	0.003323498
RP11-473M20.11	PLP2	0.897715979	0.015157983
RP11-78A19.3	CEBPA	0.942066327	0.004937244
RP11-680G24.6	PLP2	0.85512372	0.029963291
LA16c-359F1.1	PLP2	0.889168355	0.017744772
Z69720.3	CEBPA	0.94673596	0.00418003
PSMD5-AS1	CEBPB	0.948171356	0.003959701
RP11-326C3.2	CEBPB	0.919320566	0.009501179
AP006621.8	CEBPB	0.942743267	0.004823647
RP11-160E2.19	CEBPB	0.942235079	0.004908805
AC005944.2	CEBPB	0.951362524	0.003490878
RP11-473M20.11	NR4A1	0.883659457	0.019515341
RP5-1142A6.10	CEBPB	0.917795214	0.009858686
RP11-680G24.6	NR4A1	0.897492739	0.015223048
LA16c-359F1.1	NR4A1	0.916691828	0.010121287
CTD-2139B15.2	CENPH	0.949718559	0.003728774
RP11-91K8.5	CENPH	0.936082546	0.005997596
AC011558.5	CENPI	-0.933451267	0.006495738
RP11-160E2.19	CENPL	-0.935753221	0.006058879
AC011558.5	CENPL	-0.990628014	0.00013134
LLNLR-284B4.1	CEP152	-0.921937489	0.008902786
RP11-498J9.2	CEP170	0.962020965	0.00213622
RP11-34P13.14	CEP170	0.981323815	0.000519943
RP11-680G24.6	RGS1	0.845367146	0.034018241
LA16c-359F1.1	RGS1	0.890819119	0.017229954
RP11-93O14.2	CEP170	0.984379368	0.0003641
RP11-485G7.6	CEP170	0.926170378	0.007975004
RP11-78A19.3	CEP170	0.972329801	0.001137867
RP11-680G24.6	CEP170	0.95243537	0.003339786
LA16c-359F1.1	CEP170	0.950426765	0.003625345
Z69720.3	CEP170	0.976372629	0.000830784
RP11-473M20.11	KLF6	0.881865315	0.020109373
AC011558.5	CEP57L1	-0.937638701	0.005712138
AC024028.1	CERCAM	0.955519666	0.002923748
RP11-498J9.2	CERCAM	0.998369075	3.99E-06
RP11-34P13.14	CERCAM	0.974335735	0.00097953
RP11-93O14.2	CERCAM	0.985255688	0.000324489
RP11-485G7.6	CERCAM	0.96840073	0.001481995
RP11-78A19.3	CERCAM	0.982444339	0.000459597
Z69720.3	CERCAM	0.984427417	0.00036187

RP11-66D17.5	CETN2	0.969494452	0.001381689
RP11-473M20.11	IER3	0.909040946	0.012034047
RP11-126K1.8	CETN2	0.966419906	0.001672501
RP11-680G24.6	IER3	0.852256094	0.031129896
LA16c-359F1.1	IER3	0.897038233	0.015355933
RP3-438O4.4	CETN2	0.999446213	4.60E-07
AC024028.1	HLA-DPA1	0.896325747	0.015565363
NUP50-AS1	CETN2	0.985917722	0.000296069
RP11-34P13.14	HLA-DPA1	0.897635434	0.015181443
PSMD5-AS1	CETN2	0.953188099	0.00323574
TOPORS-AS1	CETN2	0.989217874	0.000173755
RP11-473M20.11	HLA-DPA1	0.838880791	0.03684782
AC087294.2	CETN2	0.991897515	9.82E-05
LA16c-359F1.1	HLA-DPA1	0.830959326	0.040446977
AP001062.8	CETN2	0.989204269	0.000174193
RP11-455F5.3	CETN2	0.986701507	0.000264099
RP11-326C3.2	CETN2	0.96087863	0.002265785
AP006621.8	CETN2	0.953393485	0.003207632
JHDM1D-AS1	CETN2	0.990141078	0.000145318
RP11-20I23.6	CETN2	0.984130151	0.00037578
RP11-473M20.11	FOSB	0.901971794	0.013943291
AC005786.7	CETN2	0.990691641	0.000129565
RP11-680G24.6	FOSB	0.874693241	0.022568906
LA16c-359F1.1	FOSB	0.906514261	0.012700862
AC005944.2	CETN2	0.94696613	0.004144306
CTB-191K22.5	CETN2	0.978579661	0.000683332
RP11-20I23.8	CETN2	0.988400283	0.00020105
CDC37L1-AS1	CETN2	0.997147011	1.22E-05
RP5-1142A6.10	CETN2	0.975129738	0.000920103
RP11-556I13.1	CETN2	0.99019954	0.000143603
RP11-473M20.11	CD69	0.914405956	0.010675965
RP11-485G7.6	CFB	0.921289412	0.009049215
RP11-680G24.6	CD69	0.869795893	0.024325982
LA16c-359F1.1	CD69	0.903768848	0.013445081
Z69720.3	CFB	0.923354582	0.008586653
AC024028.1	CFH	0.958737934	0.002518712
RP11-498J9.2	CFH	0.999657442	1.76E-07
RP11-34P13.14	CFH	0.976836192	0.000798629
RP11-93O14.2	CFH	0.984787038	0.000345391
RP11-485G7.6	CFH	0.96868585	0.001455511
RP11-473M20.11	IL8	0.914897836	0.010555397
RP11-78A19.3	CFH	0.983632911	0.00039963
RP11-680G24.6	IL8	0.848579685	0.032656277
LA16c-359F1.1	IL8	0.897613269	0.015187902
Z69720.3	CFH	0.986808055	0.000259893
RP11-66D17.5	CFL2	-0.966233936	0.001690971
NUP50-AS1	CFL2	-0.929245779	0.007332136
AC005944.2	CFL2	-0.918182223	0.009767373
CTB-191K22.5	CFL2	-0.942485951	0.004866674
LL21NC02-21A1.1	CFL2	-0.978176025	0.000709232
RP11-473M20.11	RNU5D	0.914673258	0.010610362
CCDC144NL-AS1	CGREF1	0.95528866	0.002953965
RP11-680G24.6	RNU5D	0.848926379	0.032510864
LA16c-359F1.1	RNU5D	0.898846162	0.01483064
CTD-2531D15.5	CGREF1	0.987940789	0.00021726
CCDC144NL-AS1	RNU5A	-0.839199001	0.036706529
AC024028.1	CH25H	0.961152898	0.002234334
CTD-2139B15.2	RNU5A	-0.901881865	0.013968453
RP11-91K8.5	RNU5A	-0.860603117	0.027792892
PSMD5-AS1	RNU5A	0.8243226	0.043582897
RP11-326C3.2	RNU5A	0.866452467	0.025561509
AP006621.8	RNU5A	0.838826022	0.036872164
JHDM1D-AS1	RNU5A	0.814580945	0.048382965

RP11-20I23.6	RNU5A	0.822254188	0.044582548
RP11-160E2.19	RNU5A	0.90360413	0.013490383
RP11-20I23.8	RNU5A	0.816338686	0.047499634
RP5-1142A6.10	RNU5A	0.811516986	0.04994076
RP11-556I13.1	RNU5A	0.814864036	0.04824019
AC011558.5	RNU5A	0.891777206	0.016934498
RP11-498J9.2	CH25H	0.999784097	6.99E-08
RP11-34P13.14	CH25H	0.976302557	0.000835699
RP11-93O14.2	CH25H	0.983844169	0.000389408
RP11-485G7.6	CH25H	0.967895324	0.00152952
RP11-78A19.3	CH25H	0.983245363	0.000418725
RP11-473M20.11	LGALS1	0.895532845	0.015800034
Z69720.3	CH25H	0.985684221	0.000305945
RP11-680G24.6	LGALS1	0.848152419	0.032835905
LA16c-359F1.1	LGALS1	0.893693532	0.016350909
CCDC144NL-AS1	CHD2	-0.94785552	0.004007679
CTA-315H11.2	CHD2	-0.984849067	0.000342587
RP11-126K1.8	CHD2	0.929925987	0.007193506
RP3-438O4.4	CHD2	0.939349055	0.005406252
NUP50-AS1	CHD2	0.928128746	0.007562591
PSMD5-AS1	CHD2	0.979266143	0.000640383
RP11-473M20.11	MIR223	0.914673258	0.010610362
TOPORS-AS1	CHD2	0.926656027	0.007871736
RP11-680G24.6	MIR223	0.848926379	0.032510864
LA16c-359F1.1	MIR223	0.898846162	0.01483064
AC087294.2	CHD2	0.963796317	0.001942334
AP001062.8	CHD2	0.945423777	0.004386567
RP11-455F5.3	CHD2	0.97216031	0.001151784
RP11-326C3.2	CHD2	0.991694267	0.000103191
AP006621.8	CHD2	0.986645685	0.000266316
JHDM1D-AS1	CHD2	0.971289382	0.001224616
RP11-20I23.6	CHD2	0.972634957	0.001113022
RP11-160E2.19	CHD2	0.976975949	0.000789058
AC005786.7	CHD2	0.947801597	0.004015898
AC005944.2	CHD2	0.937640528	0.005711807
CTB-191K22.5	CHD2	0.918231116	0.009755866
RP11-20I23.8	CHD2	0.972857888	0.001095044
CDC37L1-AS1	CHD2	0.946091451	0.004280865
RP5-1142A6.10	CHD2	0.961232924	0.002225198
RP11-556I13.1	CHD2	0.97124444	0.001228435
AC024028.1	CHDH	0.961176275	0.002231663
RP11-498J9.2	CHDH	0.999722521	1.15E-07
RP11-34P13.14	CHDH	0.974352106	0.000978286
RP11-93O14.2	CHDH	0.981979473	0.000484183
RP11-485G7.6	CHDH	0.968985015	0.001427977
RP11-78A19.3	CHDH	0.981750815	0.00049651
Z69720.3	CHDH	0.985498889	0.000313899
AC011558.5	CHEK1	-0.96844372	0.001477986
CTD-2139B15.2	CHEK2	0.956526644	0.002793818
CTA-315H11.2	CHI3L1	-0.947550524	0.004054278
RP11-66D17.5	CHI3L1	0.940947509	0.005127831
RP11-126K1.8	CHI3L1	0.963887984	0.00193257
RP3-438O4.4	CHI3L1	0.984873096	0.000341504
NUP50-AS1	CHI3L1	0.979529471	0.000624275
PSMD5-AS1	CHI3L1	0.988818275	0.000186847
TOPORS-AS1	CHI3L1	0.981095955	0.000532667
AC087294.2	CHI3L1	0.995159541	3.51E-05
AP001062.8	CHI3L1	0.985511358	0.00031336
RP11-455F5.3	CHI3L1	0.996311858	2.04E-05
RP11-326C3.2	CHI3L1	0.995539246	2.98E-05
AP006621.8	CHI3L1	0.990627799	0.000131346
JHDM1D-AS1	CHI3L1	0.996538024	1.80E-05
RP11-20I23.6	CHI3L1	0.999741117	1.01E-07

RP11-160E2.19	CHI3L1	0.965165032	0.001799077
AC005786.7	CHI3L1	0.993565949	6.20E-05
AC005944.2	CHI3L1	0.97368935	0.001029269
CTB-191K22.5	CHI3L1	0.971285404	0.001224954
RP11-20I23.8	CHI3L1	0.997741711	7.64E-06
CDC37L1-AS1	CHI3L1	0.986986491	0.000252925
RP5-1142A6.10	CHI3L1	0.995329097	3.27E-05
RP11-556I13.1	CHI3L1	0.996525178	1.81E-05
CTA-315H11.2	CHI3L2	-0.960261845	0.002337306
RP11-66D17.5	CHI3L2	0.925415081	0.008136911
RP11-126K1.8	CHI3L2	0.957126262	0.002717832
RP3-438O4.4	CHI3L2	0.978156515	0.000710496
NUP50-AS1	CHI3L2	0.970322523	0.00130806
PSMD5-AS1	CHI3L2	0.989792193	0.000155767
TOPORS-AS1	CHI3L2	0.972672944	0.001109949
AC087294.2	CHI3L2	0.991275686	0.000113838
AP001062.8	CHI3L2	0.978830211	0.000667496
RP11-455F5.3	CHI3L2	0.993950544	5.48E-05
RP11-326C3.2	CHI3L2	0.998789115	2.20E-06
AP006621.8	CHI3L2	0.99294365	7.45E-05
JHDM1D-AS1	CHI3L2	0.994381807	4.73E-05
RP11-20I23.6	CHI3L2	0.997622445	8.47E-06
RP11-160E2.19	CHI3L2	0.9732399	0.001064573
AC005786.7	CHI3L2	0.987155368	0.000246417
AC005944.2	CHI3L2	0.968884097	0.001437236
CTB-191K22.5	CHI3L2	0.961715379	0.002170511
RP11-20I23.8	CHI3L2	0.995695476	2.78E-05
CDC37L1-AS1	CHI3L2	0.981829391	0.000492257
RP5-1142A6.10	CHI3L2	0.992013889	9.54E-05
RP11-556I13.1	CHI3L2	0.994374267	4.74E-05
CTA-315H11.2	CHIT1	-0.968898484	0.001435914
RP11-126K1.8	CHIT1	0.936435867	0.005932186
RP3-438O4.4	CHIT1	0.952730959	0.003298735
NUP50-AS1	CHIT1	0.948368894	0.003929838
PSMD5-AS1	CHIT1	0.989003392	0.000180723
TOPORS-AS1	CHIT1	0.951726198	0.003439292
AC087294.2	CHIT1	0.974429288	0.000972432
AP001062.8	CHIT1	0.958120613	0.002594099
RP11-455F5.3	CHIT1	0.980226998	0.000582592
RP11-326C3.2	CHIT1	0.998482542	3.45E-06
AP006621.8	CHIT1	0.993128354	7.07E-05
JHDM1D-AS1	CHIT1	0.979297304	0.000638466
RP11-20I23.6	CHIT1	0.987480613	0.000234121
RP11-160E2.19	CHIT1	0.990112313	0.000146166
AC005786.7	CHIT1	0.970741126	0.001271599
AC005944.2	CHIT1	0.963534559	0.001970348
CTB-191K22.5	CHIT1	0.938972117	0.005472958
RP11-20I23.8	CHIT1	0.982055203	0.000480134
CDC37L1-AS1	CHIT1	0.958562577	0.002540015
RP5-1142A6.10	CHIT1	0.984727028	0.000348114
RP11-556I13.1	CHIT1	0.979261952	0.000640641
CTA-315H11.2	CHMP7	-0.958006061	0.002608208
RP11-66D17.5	CHMP7	0.942065069	0.004937456
RP11-126K1.8	CHMP7	0.972833839	0.001096976
RP3-438O4.4	CHMP7	0.983584349	0.000401999
NUP50-AS1	CHMP7	0.980660029	0.000557435
PSMD5-AS1	CHMP7	0.993154121	7.01E-05
TOPORS-AS1	CHMP7	0.971221058	0.001230423
AC087294.2	CHMP7	0.996157009	2.21E-05
AP001062.8	CHMP7	0.988401899	0.000200994
RP11-455F5.3	CHMP7	0.998351969	4.07E-06
RP11-326C3.2	CHMP7	0.994885327	3.92E-05
AP006621.8	CHMP7	0.994675859	4.24E-05

JHDM1D-AS1	CHMP7	0.997227057	1.15E-05
RP11-20I23.6	CHMP7	0.997482456	9.50E-06
RP11-160E2.19	CHMP7	0.961347354	0.002212167
AC005786.7	CHMP7	0.988872645	0.000185038
AC005944.2	CHMP7	0.976187205	0.000843822
CTB-191K22.5	CHMP7	0.974944391	0.000933811
RP11-20I23.8	CHMP7	0.998382928	3.92E-06
CDC37L1-AS1	CHMP7	0.98641924	0.000275403
RP5-1142A6.10	CHMP7	0.988956807	0.000182255
RP11-556I13.1	CHMP7	0.997171561	1.20E-05
AC024028.1	CHN2	0.923983013	0.008448238
RP11-498J9.2	CHN2	0.976288337	0.000836699
RP11-93O14.2	CHN2	0.942885217	0.004799991
RP11-485G7.6	CHN2	0.983005522	0.000430764
RP11-78A19.3	CHN2	0.94894755	0.003842999
Z69720.3	CHN2	0.952577511	0.003320015
CCDC144NL-AS1	CHST10	0.929475066	0.007285262
CCDC144NL-AS1	ANKRD30BL	-0.865341358	0.025978546
CTA-315H11.2	CHST10	0.94246215	0.004870664
RP11-160E2.19	CHST10	-0.947606104	0.004045767
AC011558.5	CHST10	-0.942946217	0.004789842
AC024028.1	CIB2	0.934933068	0.006212821
RP11-498J9.2	CIB2	0.991365312	0.000111515
RP11-34P13.14	CIB2	0.957929826	0.002617619
RP11-93O14.2	CIB2	0.982806979	0.000440859
RP11-485G7.6	CIB2	0.97598812	0.000857933
RP11-78A19.3	CIB2	0.977584737	0.000748035
Z69720.3	CIB2	0.974570681	0.000961753
AC024028.1	CIITA	0.96767853	0.001550133
RP11-498J9.2	CIITA	0.990307505	0.000140461
RP11-34P13.14	CIITA	0.950289342	0.003645303
RP11-93O14.2	CIITA	0.960454169	0.002314887
RP11-485G7.6	CIITA	0.956586842	0.002786143
RP11-473M20.11	CIITA	0.928770713	0.007429722
RP11-78A19.3	CIITA	0.961037372	0.002247555
Z69720.3	CIITA	0.96363808	0.001959245
CTA-315H11.2	CISD2	-0.929366722	0.007307393
RP11-66D17.5	CISD2	0.965427427	0.001772233
LL21NC02-21A1.1	ANKRD30BL	0.818847741	0.046251852
RP11-126K1.8	CISD2	0.982413289	0.000461219
RP3-438O4.4	CISD2	0.996577401	1.76E-05
CCDC144NL-AS1	BTNL3	-0.865341358	0.025978546
NUP50-AS1	CISD2	0.990920721	0.000123276
PSMD5-AS1	CISD2	0.977658204	0.000743158
TOPORS-AS1	CISD2	0.980631153	0.000559095
AC087294.2	CISD2	0.999400625	5.39E-07
AP001062.8	CISD2	0.996903416	1.44E-05
RP11-455F5.3	CISD2	0.998000159	6.00E-06
RP11-326C3.2	CISD2	0.978476437	0.00068991
AP006621.8	CISD2	0.978035738	0.000718345
JHDM1D-AS1	CISD2	0.998038021	5.77E-06
RP11-20I23.6	CISD2	0.992604145	8.18E-05
RP11-160E2.19	CISD2	0.924574065	0.008319056
AC005786.7	CISD2	0.991750721	0.000101795
AC005944.2	CISD2	0.965951541	0.00171921
CTB-191K22.5	CISD2	0.985566046	0.000311005
RP11-20I23.8	CISD2	0.997506904	9.32E-06
CDC37L1-AS1	CISD2	0.996006996	2.39E-05
RP5-1142A6.10	CISD2	0.981197796	0.000526961
RP11-556I13.1	CISD2	0.998004872	5.97E-06
AC011558.5	CIT	-0.952385433	0.003346746
CTB-31O20.6	CITED1	0.986157412	0.0002861
LL21NC02-21A1.1	BTNL3	0.818847741	0.046251852

RP11-160E2.19	CKAP5	-0.927757604	0.00763993
AC011558.5	CKAP5	-0.968644588	0.001459329
CCDC144NL-AS1	C11orf91	-0.865341358	0.025978546
MIR210HG	CKS2	0.928366407	0.007513268
CTA-315H11.2	CLC	-0.959261286	0.002455658
PSMD5-AS1	CLC	0.960789619	0.002276039
AC087294.2	CLC	0.92433739	0.008370668
RP11-455F5.3	CLC	0.934619307	0.006272213
RP11-326C3.2	CLC	0.976763048	0.00080366
AP006621.8	CLC	0.967612076	0.001556479
JHDM1D-AS1	CLC	0.933168161	0.00655049
RP11-20I23.6	CLC	0.94965778	0.003737716
RP11-160E2.19	CLC	0.9970797	1.28E-05
AC005786.7	CLC	0.923182003	0.008624855
AC005944.2	CLC	0.925778761	0.008058754
RP11-20I23.8	CLC	0.937804723	0.005682085
RP5-1142A6.10	CLC	0.95261599	0.003314672
RP11-556I13.1	CLC	0.933134951	0.006556928
AC011558.5	CLC	0.953693492	0.003166792
CTD-2541M15.3	CLCN4	0.922136324	0.008858094
LLNLR-284B4.1	CLCN5	-0.973540438	0.0010409
RP11-77G23.2	CLCN5	0.936367433	0.005944828
AC024028.1	CLCNKB	0.945479253	0.004377736
LL21NC02-21A1.1	C11orf91	0.818847741	0.046251852
RP11-498J9.2	CLCNKB	0.995223259	3.42E-05
RP11-34P13.14	CLCNKB	0.976643715	0.000811903
CCDC144NL-AS1	C19orf29OS	-0.865341358	0.025978546
RP11-93O14.2	CLCNKB	0.986092633	0.000288777
RP11-485G7.6	CLCNKB	0.964250598	0.001894185
RP11-78A19.3	CLCNKB	0.979450492	0.000629085
Z69720.3	CLCNKB	0.987947316	0.000217025
CCDC144NL-AS1	CLDN11	0.929787002	0.007221727
CTB-31O20.6	CLDN11	0.974927675	0.000935052
RP3-339A18.6	CLDN3	0.979820892	0.000606686
AC024028.1	CLDND1	0.968875893	0.00143799
RP11-498J9.2	CLDND1	0.985559383	0.000311291
RP11-34P13.14	CLDND1	0.973934811	0.001010237
RP11-93O14.2	CLDND1	0.977460898	0.000756292
RP11-485G7.6	CLDND1	0.942026193	0.004944019
RP11-473M20.11	CLDND1	0.932656499	0.006650014
RP11-78A19.3	CLDND1	0.986972634	0.000253463
Z69720.3	CLDND1	0.958429427	0.00255625
CTA-315H11.2	CLEC2D	-0.962958858	0.002032658
RP11-126K1.8	CLEC2D	0.930754229	0.007026449
RP3-438O4.4	CLEC2D	0.971631572	0.001195737
NUP50-AS1	CLEC2D	0.949682568	0.003734068
PSMD5-AS1	CLEC2D	0.97430366	0.000981969
LL21NC02-21A1.1	C19orf29OS	0.818847741	0.046251852
TOPORS-AS1	CLEC2D	0.967692447	0.001548806
AC087294.2	CLEC2D	0.981090675	0.000532963
CCDC144NL-AS1	C4BPA	-0.865341358	0.025978546
AP001062.8	CLEC2D	0.961496875	0.002195196
RP11-455F5.3	CLEC2D	0.983568474	0.000402774
RP11-326C3.2	CLEC2D	0.995777034	2.67E-05
AP006621.8	CLEC2D	0.980462659	0.000568833
JHDM1D-AS1	CLEC2D	0.988022242	0.000214341
RP11-20I23.6	CLEC2D	0.99095797	0.000122268
RP11-160E2.19	CLEC2D	0.97386529	0.001015609
AC005786.7	CLEC2D	0.977622117	0.000745551
AC005944.2	CLEC2D	0.945283217	0.00440898
CTB-191K22.5	CLEC2D	0.938316221	0.005589983
RP11-20I23.8	CLEC2D	0.988422934	0.000200267
CDC37L1-AS1	CLEC2D	0.977545252	0.000750663

RP5-1142A6.10	CLEC2D	0.984988644	0.00033632
RP11-556I13.1	CLEC2D	0.988122455	0.000210776
AC024028.1	CLEC4D	0.998645006	2.75E-06
RP11-498J9.2	CLEC4D	0.967783893	0.001540098
RP11-34P13.14	CLEC4D	0.949138064	0.003814617
RP11-93O14.2	CLEC4D	0.921358949	0.009033448
RP11-473M20.11	CLEC4D	0.98690627	0.000256046
RP11-78A19.3	CLEC4D	0.931040154	0.006969223
LL21NC02-21A1.1	C4BPA	0.818847741	0.046251852
Z69720.3	CLEC4D	0.938725321	0.005516849
CTA-315H11.2	CLEC4E	-0.965974382	0.001716918
CCDC144NL-AS1	CDC20B	-0.865341358	0.025978546
RP11-126K1.8	CLEC4E	0.933322721	0.00652057
RP3-438O4.4	CLEC4E	0.94875091	0.003872402
NUP50-AS1	CLEC4E	0.94616859	0.004268734
PSMD5-AS1	CLEC4E	0.988411661	0.000200656
TOPORS-AS1	CLEC4E	0.950101169	0.003672719
AC087294.2	CLEC4E	0.971584745	0.001199668
AP001062.8	CLEC4E	0.955227315	0.002962014
RP11-455F5.3	CLEC4E	0.977599852	0.00074703
RP11-326C3.2	CLEC4E	0.997434046	9.87E-06
AP006621.8	CLEC4E	0.992323563	8.82E-05
JHDM1D-AS1	CLEC4E	0.976275919	0.000837572
RP11-20I23.6	CLEC4E	0.985897304	0.000296927
RP11-160E2.19	CLEC4E	0.991891139	9.84E-05
AC005786.7	CLEC4E	0.969221883	0.001406361
AC005944.2	CLEC4E	0.963903079	0.001930965
CTB-191K22.5	CLEC4E	0.936507292	0.005919006
RP11-20I23.8	CLEC4E	0.979374861	0.000633708
CDC37L1-AS1	CLEC4E	0.954475588	0.003061534
RP5-1142A6.10	CLEC4E	0.984561447	0.000355683
RP11-556I13.1	CLEC4E	0.976232737	0.000840611
LL21NC02-21A1.1	CDC20B	0.818847741	0.046251852
RP11-770G2.2	CLEC4G	0.938680622	0.005524817
AC005943.6	CLEC4G	0.936784889	0.005867917
CCDC144NL-AS1	GDAP1L1	-0.865341358	0.025978546
AC024028.1	CLEC7A	0.982805232	0.000440948
RP11-498J9.2	CLEC7A	0.992753629	7.86E-05
RP11-34P13.14	CLEC7A	0.96309394	0.002017952
RP11-93O14.2	CLEC7A	0.955746845	0.002894181
RP11-485G7.6	CLEC7A	0.945273727	0.004410496
RP11-473M20.11	CLEC7A	0.949269691	0.003795067
RP11-78A19.3	CLEC7A	0.959691943	0.002404364
Z69720.3	CLEC7A	0.972854825	0.00109529
AC024028.1	CLIP2	0.982402896	0.000461763
RP11-498J9.2	CLIP2	0.985548842	0.000311745
RP11-34P13.14	CLIP2	0.990432296	0.000136874
RP11-93O14.2	CLIP2	0.963237869	0.00200234
RP11-473M20.11	CLIP2	0.941447799	0.005042171
RP11-78A19.3	CLIP2	0.959717816	0.002401299
Z69720.3	CLIP2	0.979913069	0.000601175
RP11-498J9.2	CLIP4	0.976868177	0.000796433
RP11-34P13.14	CLIP4	0.924567631	0.008320457
RP11-93O14.2	CLIP4	0.974787175	0.000945516
RP11-485G7.6	CLIP4	0.988414428	0.000200561
RP11-78A19.3	CLIP4	0.981523869	0.000508898
LL21NC02-21A1.1	GDAP1L1	0.818847741	0.046251852
Z69720.3	CLIP4	0.937524095	0.005732929
CTD-2139B15.2	CLTC	0.932329365	0.00671403
CCDC144NL-AS1	HMGB1P3	-0.865341358	0.025978546
AC024028.1	CLU	0.996741912	1.59E-05
RP11-498J9.2	CLU	0.97000622	0.001335949
RP11-34P13.14	CLU	0.944779595	0.004489748

RP11-93O14.2	CLU	0.921626605	0.008972884
RP11-473M20.11	CLU	0.983917451	0.000385893
RP11-78A19.3	CLU	0.930738031	0.007029698
Z69720.3	CLU	0.939695189	0.005345351
RP11-680G24.6	CMAH	0.938228304	0.005605761
LA16c-359F1.1	CMAH	0.944855264	0.004477567
CTA-315H11.2	CMTM2	-0.961715303	0.00217052
RP11-66D17.5	CMTM2	0.926590686	0.007885592
RP11-126K1.8	CMTM2	0.959571317	0.002418678
RP3-438O4.4	CMTM2	0.980099632	0.000590096
NUP50-AS1	CMTM2	0.97112184	0.001238881
PSMD5-AS1	CMTM2	0.989234118	0.000173232
TOPORS-AS1	CMTM2	0.972297351	0.001140525
AC087294.2	CMTM2	0.992505652	8.40E-05
AP001062.8	CMTM2	0.980379512	0.000573669
RP11-455F5.3	CMTM2	0.995104289	3.59E-05
RP11-326C3.2	CMTM2	0.998274102	4.47E-06
LL21NC02-21A1.1	HMGB1P3	0.818847741	0.046251852
AP006621.8	CMTM2	0.992598826	8.20E-05
JHDM1D-AS1	CMTM2	0.995677705	2.80E-05
CCDC144NL-AS1	ISCA1P6	-0.865341358	0.025978546
RP11-20I23.6	CMTM2	0.997409108	1.01E-05
RP11-160E2.19	CMTM2	0.969750946	0.001358669
AC005786.7	CMTM2	0.986733988	0.000262813
AC005944.2	CMTM2	0.967093517	0.001606439
CTB-191K22.5	CMTM2	0.962716368	0.00205919
RP11-20I23.8	CMTM2	0.996676229	1.66E-05
CDC37L1-AS1	CMTM2	0.983679453	0.000397367
RP5-1142A6.10	CMTM2	0.990292106	0.000140907
RP11-556I13.1	CMTM2	0.995671311	2.81E-05
AC024028.1	CMTM7	0.992450197	8.53E-05
RP11-498J9.2	CMTM7	0.986610351	0.000267724
RP11-34P13.14	CMTM7	0.962303487	0.002104757
RP11-93O14.2	CMTM7	0.94842059	0.003922041
RP11-485G7.6	CMTM7	0.92614569	0.007980271
RP11-473M20.11	CMTM7	0.9667673	0.001638267
RP11-78A19.3	CMTM7	0.953928806	0.003134938
Z69720.3	CMTM7	0.961825942	0.002158073
CTA-315H11.2	CNIH3	-0.944339838	0.004560861
RP11-66D17.5	CNIH3	0.953751689	0.003158899
RP11-126K1.8	CNIH3	0.975434539	0.000897781
LL21NC02-21A1.1	ISCA1P6	0.818847741	0.046251852
RP3-438O4.4	CNIH3	0.993712705	5.92E-05
NUP50-AS1	CNIH3	0.985761524	0.000302658
PSMD5-AS1	CNIH3	0.983772882	0.000392843
TOPORS-AS1	CNIH3	0.979943042	0.000599388
AC087294.2	CNIH3	0.99940802	5.26E-07
AP001062.8	CNIH3	0.993012787	7.31E-05
RP11-455F5.3	CNIH3	0.999292012	7.52E-07
RP11-326C3.2	CNIH3	0.988026575	0.000214186
AP006621.8	CNIH3	0.985240829	0.000325142
JHDM1D-AS1	CNIH3	0.999906953	1.30E-08
RP11-20I23.6	CNIH3	0.996950866	1.39E-05
RP11-160E2.19	CNIH3	0.943396248	0.004715298
AC005786.7	CNIH3	0.992553153	8.30E-05
AC005944.2	CNIH3	0.968534867	0.001469506
CTB-191K22.5	CNIH3	0.979604198	0.000619741
RP11-20I23.8	CNIH3	0.999871276	2.49E-08
CDC37L1-AS1	CNIH3	0.995098072	3.60E-05
RP5-1142A6.10	CNIH3	0.986914783	0.000255714
RP11-556I13.1	CNIH3	0.999893104	1.71E-08
RP11-21J18.1	CNKSR3	0.943461767	0.004704493
CTD-2139B15.2	CNN3	0.957225263	0.002705385

RP11-91K8.5	CNN3	0.950884098	0.003559315
AC011558.5	CNNM2	-0.967362124	0.001580463
AC024028.1	CNNM4	0.981416679	0.000514801
CCDC144NL-AS1	RNU6ATAC	-0.865341358	0.025978546
RP11-498J9.2	CNNM4	0.995340315	3.25E-05
RP11-34P13.14	CNNM4	0.96741007	0.001575848
RP11-93O14.2	CNNM4	0.966055418	0.001708796
RP11-485G7.6	CNNM4	0.951287801	0.003501523
RP11-473M20.11	CNNM4	0.946153427	0.004271117
RP11-78A19.3	CNNM4	0.970638202	0.001280516
Z69720.3	CNNM4	0.972206032	0.001148022
AC024028.1	CNOT6L	0.96454048	0.001863773
RP11-473M20.11	CNOT6L	0.981204133	0.000526607
AC024028.1	CNST	0.959293911	0.002451754
RP11-34P13.14	CNST	0.940678679	0.005174152
RP11-473M20.11	CNST	0.949877595	0.003705423
LLNLR-284B4.1	CNTLN	-0.934428593	0.006308448
RP11-77G23.2	CNTLN	0.935887678	0.006033821
AC024028.1	CNTNAP4	0.963492415	0.001974877
RP11-498J9.2	CNTNAP4	0.999959217	2.49E-09
RP11-34P13.14	CNTNAP4	0.979699537	0.00061398
RP11-93O14.2	CNTNAP4	0.98440699	0.000362817
RP11-485G7.6	CNTNAP4	0.965332049	0.001781967
RP11-78A19.3	CNTNAP4	0.984634497	0.000352334
LL21NC02-21A1.1	RNU6ATAC	0.818847741	0.046251852
Z69720.3	CNTNAP4	0.986768531	0.000261449
RP11-77G23.2	COBLL1	0.933795333	0.006429497
RP11-91K8.5	COL15A1	0.934286891	0.006335437
RP11-91K8.5	COL23A1	0.998933177	1.71E-06
AC024028.1	COL24A1	0.984047849	0.000379677
RP11-498J9.2	COL24A1	0.995805015	2.64E-05
RP11-34P13.14	COL24A1	0.97531445	0.000906543
RP11-93O14.2	COL24A1	0.968759138	0.001448742
RP11-485G7.6	COL24A1	0.945037742	0.004448258
RP11-473M20.11	COL24A1	0.947742904	0.004024854
RP11-78A19.3	COL24A1	0.972339545	0.00113707
Z69720.3	COL24A1	0.975959903	0.000859943
LLNLR-284B4.1	COL4A5	-0.929047499	0.00737279
RP11-77G23.2	COL4A5	0.980623955	0.000559509
AC024028.1	COL5A1	0.985799576	0.000301046
RP11-498J9.2	COL5A1	0.994841101	3.99E-05
RP11-34P13.14	COL5A1	0.97475755	0.00094773
RP11-93O14.2	COL5A1	0.966309223	0.001683482
RP11-485G7.6	COL5A1	0.942059738	0.004938356
RP11-473M20.11	COL5A1	0.950951647	0.003549613
RP11-78A19.3	COL5A1	0.970285778	0.001311285
Z69720.3	COL5A1	0.974878005	0.000938745
CTA-315H11.2	COL6A2	-0.955902176	0.00287405
PSMD5-AS1	COL6A2	0.975233564	0.000912469
AC087294.2	COL6A2	0.92653897	0.007896567
RP11-455F5.3	COL6A2	0.937537517	0.005730492
RP11-326C3.2	COL6A2	0.970457781	0.001296223
AP006621.8	COL6A2	0.977048936	0.000784082
JHDM1D-AS1	COL6A2	0.930404971	0.007096661
RP11-20I23.6	COL6A2	0.947228047	0.004103837
RP11-160E2.19	COL6A2	0.99003503	0.000148456
AC005786.7	COL6A2	0.923144448	0.008633179
AC005944.2	COL6A2	0.954032475	0.003120955
RP11-20I23.8	COL6A2	0.936700796	0.005883371
RP5-1142A6.10	COL6A2	0.949369963	0.003780208
RP11-556I13.1	COL6A2	0.930216826	0.007134626
AC011558.5	COL6A2	0.928114376	0.007565578
RP11-473M20.11	COL9A2	0.967317266	0.001584786

AC024028.1	COL9A3	0.930529083	0.007071672
RP11-498J9.2	COL9A3	0.983070132	0.000427504
RP11-34P13.14	COL9A3	0.953290311	0.003221737
RP11-93O14.2	COL9A3	0.975776234	0.000873079
RP11-485G7.6	COL9A3	0.959670569	0.002406897
RP11-78A19.3	COL9A3	0.966399528	0.00167452
Z69720.3	COL9A3	0.966773046	0.001637704
AC024028.1	COLQ	0.986711196	0.000263715
RP11-498J9.2	COLQ	0.935214528	0.006159779
RP11-473M20.11	COLQ	0.992716077	7.94E-05
CTA-315H11.2	CORO1A	-0.956269666	0.002826699
RP3-438O4.4	CORO1A	0.922771233	0.008716117
NUP50-AS1	CORO1A	0.917346603	0.009965049
PSMD5-AS1	CORO1A	0.972452225	0.001127867
TOPORS-AS1	CORO1A	0.934161742	0.006359321
AC087294.2	CORO1A	0.948637784	0.003889367
AP001062.8	CORO1A	0.926612662	0.007880931
RP11-455F5.3	CORO1A	0.95588535	0.002876228
RP11-326C3.2	CORO1A	0.988556448	0.000195683
AP006621.8	CORO1A	0.977937467	0.000724763
JHDM1D-AS1	CORO1A	0.955644594	0.002907471
RP11-20I23.6	CORO1A	0.970760591	0.001269916
RP11-160E2.19	CORO1A	0.99810349	5.39E-06
AC005786.7	CORO1A	0.951131702	0.003523814
AC005944.2	CORO1A	0.944509576	0.004533348
RP11-20I23.8	CORO1A	0.959522584	0.002424472
CDC37L1-AS1	CORO1A	0.92989942	0.007198897
RP5-1142A6.10	CORO1A	0.974471683	0.000969224
RP11-556I13.1	CORO1A	0.955641379	0.002907889
AC011558.5	CORO1A	0.941390893	0.005051879
AC011558.5	COTL1	0.976545926	0.000818689
AC024028.1	CPA3	0.958819358	0.00250885
RP11-498J9.2	CPA3	0.999429675	4.88E-07
RP11-34P13.14	CPA3	0.982088897	0.000478338
RP11-93O14.2	CPA3	0.987679823	0.000226745
RP11-485G7.6	CPA3	0.965106295	0.001805113
RP11-78A19.3	CPA3	0.986220606	0.000283499
Z69720.3	CPA3	0.98842982	0.000200029
RP11-498J9.2	CPB1	0.968773152	0.001447449
RP11-34P13.14	CPB1	0.947910929	0.003999241
RP11-93O14.2	CPB1	0.944337643	0.004561218
RP11-485G7.6	CPB1	0.951875682	0.003418198
RP11-78A19.3	CPB1	0.93675011	0.005874306
Z69720.3	CPB1	0.98834603	0.000202931
AC024028.1	CPE	0.951655968	0.003449225
RP11-498J9.2	CPE	0.996544903	1.79E-05
RP11-34P13.14	CPE	0.973872349	0.001015063
RP11-93O14.2	CPE	0.990935473	0.000122876
RP11-485G7.6	CPE	0.9739504	0.001009034
RP11-78A19.3	CPE	0.994092447	5.22E-05
LA16c-359F1.1	CPE	0.924719663	0.008287382
Z69720.3	CPE	0.977098439	0.000780716
CCDC144NL-AS1	CPEB4	-0.920953797	0.009125501
RP11-455F5.3	CPEB4	0.919510321	0.009457153
JHDM1D-AS1	CPEB4	0.920037596	0.00933534
RMRP	CPEB4	0.952306989	0.003357693
RP11-556I13.1	CPEB4	0.919988293	0.009346697
AC024028.1	CPNE5	0.958152819	0.002590139
RP11-498J9.2	CPNE5	0.999289208	7.58E-07
RP11-34P13.14	CPNE5	0.972191413	0.001149224
RP11-93O14.2	CPNE5	0.981452172	0.000512842
RP11-485G7.6	CPNE5	0.970939662	0.001254484
RP11-78A19.3	CPNE5	0.980613719	0.000560099

Z69720.3	CPNE5	0.985487135	0.000314406
RP3-339A18.6	CPNE8	0.95946731	0.002431053
RP11-126K1.8	CPT1A	-0.926260015	0.007955894
PSMD5-AS1	CPT1A	-0.933016356	0.006579941
AP006621.8	CPT1A	-0.925194364	0.008184523
AC005944.2	CPT1A	-0.938091209	0.005630409
AC024028.1	CPXM1	0.955579117	0.002915996
RP11-498J9.2	CPXM1	0.998300243	4.33E-06
RP11-34P13.14	CPXM1	0.972289365	0.00114118
RP11-93O14.2	CPXM1	0.983735467	0.000394651
RP11-485G7.6	CPXM1	0.969434388	0.001387107
RP11-78A19.3	CPXM1	0.981152149	0.000529514
Z69720.3	CPXM1	0.983818982	0.00039062
RP11-160E2.19	CR1	0.946149512	0.004271733
AC011558.5	CR1	0.975556421	0.00088893
CCDC144NL-AS1	CREB1	-0.968745814	0.001449971
CTA-315H11.2	CREB1	-0.992435992	8.56E-05
RP11-126K1.8	CREB1	0.928344402	0.007517828
RP3-438O4.4	CREB1	0.925525624	0.008113115
PSMD5-AS1	CREB1	0.965535069	0.001761278
AC087294.2	CREB1	0.950627521	0.003596286
AP001062.8	CREB1	0.934118716	0.006367542
RP11-455F5.3	CREB1	0.960422067	0.002318622
RP11-326C3.2	CREB1	0.973583783	0.001037508
AP006621.8	CREB1	0.973859813	0.001016033
JHDM1D-AS1	CREB1	0.958931778	0.002495265
RP11-20I23.6	CREB1	0.951498483	0.003471548
RP11-160E2.19	CREB1	0.947766098	0.004021314
AC005786.7	CREB1	0.921373386	0.009030176
RP11-20I23.8	CREB1	0.959331773	0.002447226
CDC37L1-AS1	CREB1	0.933898795	0.006409644
RP5-1142A6.10	CREB1	0.929498504	0.007280479
RP11-556I13.1	CREB1	0.958853193	0.002504758
RP11-160E2.19	CREB5	0.962328828	0.002101946
AC011558.5	CREB5	0.979022957	0.000655439
AC024028.1	CREM	0.964835672	0.001833054
RP11-498J9.2	CREM	0.997790037	7.32E-06
RP11-34P13.14	CREM	0.97380928	0.001019948
RP11-93O14.2	CREM	0.981061099	0.000534626
RP11-485G7.6	CREM	0.967251594	0.001591127
RP11-473M20.11	CREM	0.919781484	0.009394412
RP11-78A19.3	CREM	0.986099984	0.000288473
Z69720.3	CREM	0.979153616	0.000647328
RP11-498J9.2	CRHBP	0.969516717	0.001379683
RP11-34P13.14	CRHBP	0.940137764	0.005267973
RP11-93O14.2	CRHBP	0.965051181	0.001810786
RP11-485G7.6	CRHBP	0.980218256	0.000583106
RP11-78A19.3	CRHBP	0.967678718	0.001550115
LA16c-359F1.1	CRHBP	0.946412839	0.004230436
Z69720.3	CRHBP	0.970062388	0.001330975
RP11-473M20.11	CRIP1	0.928895896	0.007403947
AC011558.5	CRIP1	0.917921399	0.009828868
AC024028.1	CRISP3	0.967447071	0.001572292
RP11-498J9.2	CRISP3	0.995670543	2.81E-05
RP11-34P13.14	CRISP3	0.991647976	0.000104343
CCDC144NL-AS1	SFTPC	-0.865341358	0.025978546
RP11-93O14.2	CRISP3	0.986053011	0.000290421
RP11-485G7.6	CRISP3	0.946678013	0.004189048
RP11-473M20.11	CRISP3	0.918265814	0.009747704
RP11-78A19.3	CRISP3	0.986600692	0.000268109
Z69720.3	CRISP3	0.985995668	0.000292809
CTA-315H11.2	CRISPLD2	-0.944585828	0.004521015
PSMD5-AS1	CRISPLD2	0.946728847	0.004181137

RP11-326C3.2	CRISPLD2	0.962505716	0.002082377
AP006621.8	CRISPLD2	0.953339962	0.003214946
RP11-20I23.6	CRISPLD2	0.931804367	0.00681739
RP11-160E2.19	CRISPLD2	0.994516746	4.50E-05
RP5-1142A6.10	CRISPLD2	0.938722922	0.005517276
AC011558.5	CRISPLD2	0.968260717	0.001495086
RP11-326C3.2	CROCC	0.917312903	0.009973062
RP11-160E2.19	CROCC	0.961412174	0.002204801
AC011558.5	CROCC	0.96933191	0.001396375
CTA-315H11.2	CRTAM	-0.965089355	0.001806856
PSMD5-AS1	CRTAM	0.969103407	0.001417152
AC087294.2	CRTAM	0.93594438	0.00602327
RP11-455F5.3	CRTAM	0.945566106	0.004363928
LL21NC02-21A1.1	SFTPC	0.818847741	0.046251852
RP11-326C3.2	CRTAM	0.982981005	0.000432005
AP006621.8	CRTAM	0.975329751	0.000905424
CCDC144NL-AS1	XG	-0.865341358	0.025978546
JHDM1D-AS1	CRTAM	0.944001239	0.00461599
RP11-20I23.6	CRTAM	0.958600033	0.002535457
RP11-160E2.19	CRTAM	0.997755835	7.55E-06
AC005786.7	CRTAM	0.933517743	0.006482914
AC005944.2	CRTAM	0.935770543	0.006055648
RP11-20I23.8	CRTAM	0.948319757	0.003937256
RP5-1142A6.10	CRTAM	0.959905855	0.002379084
RP11-556I13.1	CRTAM	0.943961003	0.004622562
AC011558.5	CRTAM	0.944374223	0.004555281
CCDC144NL-AS1	CRYBB1	0.91839108	0.009718265
CTD-2531D15.5	CRYBB1	0.981416408	0.000514816
CTA-315H11.2	CSAD	-0.9761743	0.000844733
RP11-126K1.8	CSAD	0.950797725	0.00357174
RP3-438O4.4	CSAD	0.955581755	0.002915653
NUP50-AS1	CSAD	0.954569689	0.003048988
PSMD5-AS1	CSAD	0.994137575	5.15E-05
TOPORS-AS1	CSAD	0.945704231	0.004342013
AC087294.2	CSAD	0.978537295	0.000686028
AP001062.8	CSAD	0.965516994	0.001763115
RP11-455F5.3	CSAD	0.98488181	0.000341112
LL21NC02-21A1.1	XG	0.818847741	0.046251852
RP11-326C3.2	CSAD	0.997505449	9.33E-06
AP006621.8	CSAD	0.997575949	8.81E-06
JHDM1D-AS1	CSAD	0.982383694	0.000462768
RP11-20I23.6	CSAD	0.986890883	0.000256647
RP11-160E2.19	CSAD	0.982605121	0.000451241
AC005786.7	CSAD	0.969130942	0.001414641
AC005944.2	CSAD	0.968184586	0.001502229
CTB-191K22.5	CSAD	0.947818633	0.0040133
RP11-20I23.8	CSAD	0.984932855	0.000338818
CDC37L1-AS1	CSAD	0.961318694	0.002215427
RP5-1142A6.10	CSAD	0.979741382	0.00061146
RP11-556I13.1	CSAD	0.982298811	0.000467225
CTA-315H11.2	CSDA	-0.945574168	0.004362648
RP11-66D17.5	CSDA	0.950860383	0.003562724
RP11-126K1.8	CSDA	0.973694226	0.001028889
RP3-438O4.4	CSDA	0.993543058	6.24E-05
NUP50-AS1	CSDA	0.98407193	0.000378535
PSMD5-AS1	CSDA	0.982835671	0.000439393
TOPORS-AS1	CSDA	0.979973205	0.000597593
AC087294.2	CSDA	0.99905769	1.33E-06
AP001062.8	CSDA	0.991915837	9.78E-05
RP11-455F5.3	CSDA	0.999032746	1.40E-06
RP11-326C3.2	CSDA	0.988561797	0.000195501
AP006621.8	CSDA	0.984769885	0.000346168
JHDM1D-AS1	CSDA	0.999993724	5.91E-11

RP11-20I23.6	CSDA	0.996812154	1.52E-05
RP11-160E2.19	CSDA	0.94389473	0.004633398
AC005786.7	CSDA	0.99187893	9.87E-05
AC005944.2	CSDA	0.965999988	0.001714349
CTB-191K22.5	CSDA	0.977382563	0.000761538
RP11-20I23.8	CSDA	0.99982097	4.81E-08
CDC37L1-AS1	CSDA	0.99499203	3.76E-05
RP5-1142A6.10	CSDA	0.986535539	0.000270717
RP11-556I13.1	CSDA	0.99998901	1.81E-10
AC011558.5	CSE1L	-0.936925856	0.005842056
AC024028.1	CSF2	0.963339803	0.00199132
RP11-498J9.2	CSF2	0.999946007	4.37E-09
RP11-34P13.14	CSF2	0.979706482	0.000613562
RP11-93O14.2	CSF2	0.984624073	0.000352811
RP11-485G7.6	CSF2	0.965504508	0.001764385
RP11-78A19.3	CSF2	0.984917709	0.000339498
Z69720.3	CSF2	0.986639166	0.000266575
CTA-315H11.2	CSF3R	-0.96174594	0.00216707
RP11-66D17.5	CSF3R	0.917497833	0.009929132
RP11-126K1.8	CSF3R	0.951577954	0.003460274
RP3-438O4.4	CSF3R	0.973013851	0.001082552
NUP50-AS1	CSF3R	0.965364417	0.001778661
PSMD5-AS1	CSF3R	0.989480046	0.000165422
TOPORS-AS1	CSF3R	0.969781025	0.001355982
AC087294.2	CSF3R	0.987841344	0.000220851
AP001062.8	CSF3R	0.974114469	0.000996419
RP11-455F5.3	CSF3R	0.991149725	0.000117144
RP11-326C3.2	CSF3R	0.999590957	2.51E-07
AP006621.8	CSF3R	0.993032709	7.26E-05
JHDM1D-AS1	CSF3R	0.991485579	0.000108434
RP11-20I23.6	CSF3R	0.996156902	2.21E-05
RP11-160E2.19	CSF3R	0.978255918	0.000704067
AC005786.7	CSF3R	0.984396604	0.0003633
AC005944.2	CSF3R	0.967213515	0.001594808
CTB-191K22.5	CSF3R	0.956044795	0.002855628
RP11-20I23.8	CSF3R	0.993099331	7.13E-05
CDC37L1-AS1	CSF3R	0.97703426	0.000785081
RP5-1142A6.10	CSF3R	0.991648962	0.000104319
RP11-556I13.1	CSF3R	0.991478274	0.00010862
AC024028.1	CSGALNACT2	0.993135677	7.05E-05
RP11-498J9.2	CSGALNACT2	0.933388788	0.006507802
RP11-34P13.14	CSGALNACT2	0.934008488	0.006388627
RP11-473M20.11	CSGALNACT2	0.994697951	4.21E-05
CTA-315H11.2	CSPP1	-0.943724862	0.004661228
RP11-66D17.5	CSPP1	0.927721602	0.007647453
RP11-126K1.8	CSPP1	0.951903935	0.003414219
RP3-438O4.4	CSPP1	0.988460353	0.000198977
NUP50-AS1	CSPP1	0.959450804	0.00243302
PSMD5-AS1	CSPP1	0.952404159	0.003344135
TOPORS-AS1	CSPP1	0.959613777	0.002413635
AC087294.2	CSPP1	0.984631572	0.000352468
AP001062.8	CSPP1	0.973557067	0.001039598
RP11-455F5.3	CSPP1	0.983201408	0.000420919
RP11-326C3.2	CSPP1	0.967667391	0.001551196
AP006621.8	CSPP1	0.957268618	0.002699943
JHDM1D-AS1	CSPP1	0.989084627	0.000178068
RP11-20I23.6	CSPP1	0.976636051	0.000812434
AC005786.7	CSPP1	0.969296101	0.001399621
AC005944.2	CSPP1	0.925585949	0.008100144
CTB-191K22.5	CSPP1	0.953789761	0.003153741
RP11-20I23.8	CSPP1	0.986287522	0.000280759
CDC37L1-AS1	CSPP1	0.992589877	8.22E-05
RP5-1142A6.10	CSPP1	0.957057379	0.002726508

RP11-556I13.1	CSPP1	0.989194452	0.000174509
AC024028.1	CSRNP1	0.946889807	0.004156135
RP11-498J9.2	CSRNP1	0.994068543	5.27E-05
RP11-34P13.14	CSRNP1	0.989616259	0.000161173
RP11-93O14.2	CSRNP1	0.989910075	0.000152196
RP11-485G7.6	CSRNP1	0.954050752	0.003118493
RP11-78A19.3	CSRNP1	0.983935248	0.000385041
LA16c-359F1.1	CSRNP1	0.917891653	0.009835893
Z69720.3	CSRNP1	0.993012738	7.31E-05
CCDC144NL-AS1	CST3	0.926781926	0.007845073
CTD-2531D15.5	CST3	0.932476101	0.006685279
RP11-156P1.3	CST3	0.921630144	0.008972084
AC024028.1	CST7	0.975508586	0.000892399
RP11-498J9.2	CST7	0.97412761	0.000995412
RP11-34P13.14	CST7	0.952839768	0.003283687
RP11-93O14.2	CST7	0.941918606	0.004962205
RP11-473M20.11	CST7	0.942004074	0.004947756
RP11-78A19.3	CST7	0.936895329	0.005847652
Z69720.3	CST7	0.951809202	0.003427572
LLNLR-284B4.1	CSTA	0.939251119	0.005423545
CCDC144NL-AS1	CSTF2	0.920638967	0.009197345
RP11-160E2.19	CSTF2	-0.947881215	0.004003765
AC011558.5	CSTF2	-0.946990875	0.004140474
CCDC144NL-AS1	PAGE1	-0.858521948	0.028608144
AC005786.7	CTNND1	-0.921091696	0.009094119
AC005944.2	CTNND1	-0.958545568	0.002542086
CTB-191K22.5	CTNND1	-0.919887956	0.009369832
RP5-1142A6.10	CTNND1	-0.928140189	0.007560213
RP11-66D17.5	CTSB	0.985825539	0.000299949
RP11-126K1.8	CTSB	0.95054625	0.003608036
RP3-438O4.4	CTSB	0.953695281	0.003166549
NUP50-AS1	CTSB	0.979445686	0.000629378
PSMD5-AS1	CTSB	0.924731211	0.008284872
TOPORS-AS1	CTSB	0.967158249	0.00160016
AC087294.2	CTSB	0.951209203	0.003512739
LL21NC02-21A1.1	PAGE1	0.82050623	0.045435554
AP001062.8	CTSB	0.964690021	0.00184818
RP11-455F5.3	CTSB	0.943411934	0.00471271
JHDM1D-AS1	CTSB	0.938393104	0.005576203
RP11-20I23.6	CTSB	0.945642056	0.004351871
AC005786.7	CTSB	0.969271865	0.00140182
AC005944.2	CTSB	0.955559467	0.002918557
CTB-191K22.5	CTSB	0.97504389	0.00092644
RP11-20I23.8	CTSB	0.940448783	0.005213926
CDC37L1-AS1	CTSB	0.943844775	0.004641574
RP5-1142A6.10	CTSB	0.953624694	0.003176135
RP11-556I13.1	CTSB	0.938250465	0.005601782
RP11-498J9.2	CTSC	0.948444791	0.003918394
RP11-93O14.2	CTSC	0.925156334	0.00819274
RP11-485G7.6	CTSC	0.950436794	0.003623891
Z69720.3	CTSC	0.962510553	0.002081843
CTA-315H11.2	CTSE	-0.91910347	0.009551669
RP11-66D17.5	CTSE	0.97278088	0.001101238
RP11-126K1.8	CTSE	0.988404562	0.000200902
RP3-438O4.4	CTSE	0.994275787	4.91E-05
NUP50-AS1	CTSE	0.994926287	3.85E-05
PSMD5-AS1	CTSE	0.977471575	0.000755578
TOPORS-AS1	CTSE	0.979047534	0.00065391
AC087294.2	CTSE	0.998127356	5.26E-06
AP001062.8	CTSE	0.999091968	1.24E-06
RP11-455F5.3	CTSE	0.996562308	1.77E-05
RP11-326C3.2	CTSE	0.973194511	0.001068171
AP006621.8	CTSE	0.976518211	0.000820618

JHDM1D-AS1	CTSE	0.994864768	3.95E-05
RP11-20I23.6	CTSE	0.989632681	0.000160665
AC005786.7	CTSE	0.990807382	0.000126368
AC005944.2	CTSE	0.969671306	0.001365796
CTB-191K22.5	CTSE	0.990284554	0.000141126
RP11-20I23.8	CTSE	0.994657074	4.27E-05
CDC37L1-AS1	CTSE	0.99212976	9.27E-05
RP5-1142A6.10	CTSE	0.978848586	0.000666342
RP11-556I13.1	CTSE	0.994785894	4.07E-05
RP3-337H4.8	CTSL1	0.934501153	0.00629465
RP11-91K8.5	CTSL1	0.967978838	0.001521616
AC024028.1	CTSS	0.994893574	3.90E-05
RP11-498J9.2	CTSS	0.970644855	0.001279939
RP11-34P13.14	CTSS	0.946222688	0.004260237
RP11-473M20.11	CTSS	0.978638733	0.000679582
RP11-78A19.3	CTSS	0.923044638	0.008655322
Z69720.3	CTSS	0.948308617	0.003938939
LLNLR-284B4.1	CTTN	-0.92439123	0.008358913
AC011558.5	CTTN	-0.929490349	0.007282143
CCDC144NL-AS1	HNF4A	-0.862205505	0.02717281
AC024028.1	CTTNBP2	0.960333575	0.002328932
RP11-498J9.2	CTTNBP2	0.998836785	2.03E-06
RP11-34P13.14	CTTNBP2	0.985772915	0.000302175
RP11-93O14.2	CTTNBP2	0.985591156	0.000309926
RP11-485G7.6	CTTNBP2	0.95927602	0.002453895
RP11-78A19.3	CTTNBP2	0.983144294	0.000423778
Z69720.3	CTTNBP2	0.991876375	9.87E-05
AC024028.1	CXCL1	0.941174562	0.005088868
RP11-498J9.2	CXCL1	0.993907553	5.56E-05
RP11-34P13.14	CXCL1	0.953694767	0.003166619
RP11-93O14.2	CXCL1	0.973359194	0.001055145
RP11-485G7.6	CXCL1	0.981799893	0.000493851
RP11-78A19.3	CXCL1	0.972398924	0.001132216
Z69720.3	CXCL1	0.978942533	0.000660457
AC024028.1	CXCL2	0.955096535	0.002979212
RP11-498J9.2	CXCL2	0.997993945	6.03E-06
RP11-34P13.14	CXCL2	0.98553524	0.000312331
RP11-93O14.2	CXCL2	0.987077023	0.000249426
RP11-485G7.6	CXCL2	0.960448489	0.002315547
RP11-78A19.3	CXCL2	0.983299319	0.00041604
LL21NC02-21A1.1	HNF4A	0.83123407	0.040319518
Z69720.3	CXCL2	0.992645696	8.09E-05
AC024028.1	CXCL3	0.954773505	0.0030219
CCDC144NL-AS1	TRIM31	-0.853898181	0.030459286
RP11-498J9.2	CXCL3	0.999063174	1.32E-06
RP11-34P13.14	CXCL3	0.980164472	0.00058627
RP11-93O14.2	CXCL3	0.985545373	0.000311894
RP11-485G7.6	CXCL3	0.967249364	0.001591342
RP11-78A19.3	CXCL3	0.983161691	0.000422906
Z69720.3	CXCL3	0.991018061	0.000120651
AC024028.1	CXCL5	0.996588373	1.74E-05
RP11-498J9.2	CXCL5	0.956850891	0.0027526
RP11-34P13.14	CXCL5	0.934718994	0.006253314
RP11-473M20.11	CXCL5	0.991655986	0.000104143
Z69720.3	CXCL5	0.924872162	0.00825427
CTA-315H11.2	CXCR2	-0.950321792	0.003640585
RP11-66D17.5	CXCR2	0.945213149	0.004420174
RP11-126K1.8	CXCR2	0.970263085	0.001313278
RP3-438O4.4	CXCR2	0.991182017	0.000116292
NUP50-AS1	CXCR2	0.981266079	0.000523152
PSMD5-AS1	CXCR2	0.984710147	0.000348882
TOPORS-AS1	CXCR2	0.97904051	0.000654347
AC087294.2	CXCR2	0.998134005	5.22E-06

AP001062.8	CXCR2	0.989532481	0.00016378
LL21NC02-21A1.1	TRIM31	0.842006814	0.035470869
RP11-455F5.3	CXCR2	0.998694129	2.56E-06
RP11-326C3.2	CXCR2	0.991698165	0.000103095
CTA-315H11.2	BCL2L14	-0.908156081	0.012265592
AP006621.8	CXCR2	0.98707622	0.000249457
JHDM1D-AS1	CXCR2	0.999738156	1.03E-07
RP11-20I23.6	CXCR2	0.997733772	7.70E-06
RP11-160E2.19	CXCR2	0.950977697	0.003545874
AC005786.7	CXCR2	0.991386433	0.000110971
AC005944.2	CXCR2	0.966420788	0.001672414
CTB-191K22.5	CXCR2	0.97408569	0.000998626
RP11-20I23.8	CXCR2	0.999810562	5.38E-08
CDC37L1-AS1	CXCR2	0.99324014	6.84E-05
RP5-1142A6.10	CXCR2	0.988220548	0.000207316
RP11-556I13.1	CXCR2	0.999737719	1.03E-07
AC024028.1	CXCR4	0.937729262	0.005695735
RP11-473M20.11	CXCR4	0.980176324	0.000585572
CTA-315H11.2	CXorf65	-0.954162874	0.00310341
RP3-438O4.4	CXorf65	0.9604771	0.002312221
NUP50-AS1	CXorf65	0.92005181	0.009332067
PSMD5-AS1	CXorf65	0.934144354	0.006362642
TOPORS-AS1	CXorf65	0.929686578	0.007242152
AC087294.2	CXorf65	0.957745202	0.00264048
LL21NC02-21A1.1	BCL2L14	0.891410077	0.017047423
AP001062.8	CXorf65	0.936880704	0.005850333
RP11-455F5.3	CXorf65	0.957648495	0.002652493
RP11-326C3.2	CXorf65	0.958200795	0.002584245
AP006621.8	CXorf65	0.940920222	0.005132524
JHDM1D-AS1	CXorf65	0.967202592	0.001595865
RP11-20I23.6	CXorf65	0.958509094	0.00254653
RP11-160E2.19	CXorf65	0.919946682	0.009356288
AC005786.7	CXorf65	0.944575162	0.004522739
RP11-20I23.8	CXorf65	0.964957193	0.001820481
CDC37L1-AS1	CXorf65	0.971711494	0.001189041
RP5-1142A6.10	CXorf65	0.940275742	0.005243963
RP11-556I13.1	CXorf65	0.967413979	0.001575472
RP11-160E2.19	CXXC5	-0.962900986	0.002038975
AC011558.5	CXXC5	-0.958396505	0.002560271
CTA-315H11.2	CYB561D1	-0.968599172	0.001463537
PSMD5-AS1	CYB561D1	0.952848529	0.003282477
RP11-455F5.3	CYB561D1	0.921690007	0.008958566
RP11-326C3.2	CYB561D1	0.967745834	0.001543719
AP006621.8	CYB561D1	0.959900815	0.002379678
JHDM1D-AS1	CYB561D1	0.920815281	0.009157077
RP11-20I23.6	CYB561D1	0.936395225	0.005939692
RP11-160E2.19	CYB561D1	0.994041114	5.32E-05
RP11-20I23.8	CYB561D1	0.925660437	0.008084142
RP5-1142A6.10	CYB561D1	0.936460594	0.005927622
RP11-556I13.1	CYB561D1	0.920792944	0.009162174
AC011558.5	CYB561D1	0.953308805	0.003219207
CTA-315H11.2	CYB5R3	-0.919254102	0.009516623
RP11-66D17.5	CYB5R3	0.977014324	0.00078644
RP11-126K1.8	CYB5R3	0.990887154	0.000124188
RP3-438O4.4	CYB5R3	0.988178902	0.000208782
NUP50-AS1	CYB5R3	0.997691376	7.99E-06
PSMD5-AS1	CYB5R3	0.985225992	0.000325795
TOPORS-AS1	CYB5R3	0.974531234	0.000964727
AC087294.2	CYB5R3	0.996336099	2.01E-05
AP001062.8	CYB5R3	0.999157821	1.06E-06
RP11-455F5.3	CYB5R3	0.995503988	3.03E-05
RP11-326C3.2	CYB5R3	0.974149878	0.000993706
AP006621.8	CYB5R3	0.982298475	0.000467243

JHDM1D-AS1	CYB5R3	0.991662579	0.000103979
RP11-20I23.6	CYB5R3	0.99006155	0.000147668
RP11-160E2.19	CYB5R3	0.925849757	0.008043539
AC005786.7	CYB5R3	0.991535865	0.000107159
AC005944.2	CYB5R3	0.984011835	0.000381389
CTB-191K22.5	CYB5R3	0.995285234	3.33E-05
RP11-20I23.8	CYB5R3	0.992795059	7.77E-05
CDC37L1-AS1	CYB5R3	0.986713818	0.000263611
RP5-1142A6.10	CYB5R3	0.982153589	0.0004749
RP11-556I13.1	CYB5R3	0.991531191	0.000107277
AC011558.5	CYBA	0.970663363	0.001278333
CTA-315H11.2	CYFIP2	-0.943590736	0.00468326
PSMD5-AS1	CYFIP2	0.940692957	0.005171687
RP11-326C3.2	CYFIP2	0.957026648	0.002730384
AP006621.8	CYFIP2	0.947841228	0.004009856
RP11-20I23.6	CYFIP2	0.923584258	0.008535939
RP11-160E2.19	CYFIP2	0.991955386	9.68E-05
RP5-1142A6.10	CYFIP2	0.930178201	0.007142432
AC011558.5	CYFIP2	0.969917174	0.001343853
RP11-160E2.19	CYLD	0.955589709	0.002914616
AC011558.5	CYLD	0.972162336	0.001151617
RP11-21J18.1	CYorf15A	0.918131083	0.009779415
LLNLR-284B4.1	CYorf15B	-0.946892478	0.004155721
AC024028.1	CYP11A1	0.962825363	0.002047244
RP11-498J9.2	CYP11A1	0.999933295	6.67E-09
RP11-34P13.14	CYP11A1	0.978653185	0.000678666
RP11-93O14.2	CYP11A1	0.984591831	0.000354288
RP11-485G7.6	CYP11A1	0.96676591	0.001638403
RP11-78A19.3	CYP11A1	0.985189625	0.000327397
Z69720.3	CYP11A1	0.985992435	0.000292944
AC024028.1	CYP1A1	0.964314754	0.001887434
RP11-498J9.2	CYP1A1	0.999998328	4.19E-12
RP11-34P13.14	CYP1A1	0.978871225	0.000664921
RP11-93O14.2	CYP1A1	0.983088533	0.000426578
RP11-485G7.6	CYP1A1	0.965053367	0.001810561
RP11-78A19.3	CYP1A1	0.983241767	0.000418904
Z69720.3	CYP1A1	0.986786535	0.00026074
AC024028.1	CYP1B1	0.951091489	0.003529568
RP11-498J9.2	CYP1B1	0.991911754	9.79E-05
RP11-34P13.14	CYP1B1	0.992261877	8.96E-05
RP11-93O14.2	CYP1B1	0.983406365	0.000410739
RP11-485G7.6	CYP1B1	0.94253509	0.004858443
RP11-78A19.3	CYP1B1	0.976008809	0.000856462
Z69720.3	CYP1B1	0.995300937	3.31E-05
CTB-31O20.6	CYP2S1	0.944132086	0.004594648
AC024028.1	CYSLTR2	0.997485212	9.48E-06
RP11-498J9.2	CYSLTR2	0.975736031	0.000875968
RP11-34P13.14	CYSLTR2	0.95658233	0.002786718
RP11-93O14.2	CYSLTR2	0.93281171	0.006619747
RP11-473M20.11	CYSLTR2	0.980754357	0.000552028
RP11-78A19.3	CYSLTR2	0.941829478	0.004977296
CTA-315H11.2	RPS15AP5	-0.87303592	0.023156494
Z69720.3	CYSLTR2	0.948967773	0.003839981
RP11-66D17.5	CYTH3	-0.929001288	0.00738228
LL21NC02-21A1.1	CYTH3	-0.918267671	0.009747267
CTA-315H11.2	CYTH4	-0.952686666	0.003304871
PSMD5-AS1	CYTH4	0.954886497	0.003006934
TOPORS-AS1	RPS15AP5	0.911349956	0.011439903
AC087294.2	CYTH4	0.917539473	0.009919253
RP11-455F5.3	CYTH4	0.927674959	0.007657204
RP11-326C3.2	CYTH4	0.972728055	0.001105497
AP006621.8	CYTH4	0.961764073	0.002165029
JHDM1D-AS1	CYTH4	0.92676062	0.007849582

RP11-20I23.6	CYTH4	0.945248137	0.004414583
RP11-160E2.19	CYTH4	0.997343108	1.06E-05
RP11-160E2.19	RPS15AP5	0.868671794	0.024738131
AC005786.7	CYTH4	0.919115694	0.009548823
AC005944.2	CYTH4	0.920988383	0.009117625
RP11-20I23.8	CYTH4	0.931647107	0.006848501
RP5-1142A6.10	CYTH4	0.95036524	0.003634274
RP11-556I13.1	CYTH4	0.926745467	0.00785279
AC011558.5	CYTH4	0.961909672	0.002148678
RP11-91K8.5	CYTL1	0.942597318	0.004848029
CCDC144NL-AS1	RNU12	-0.83196478	0.039981446
RP11-160E2.19	RNU12	0.91545515	0.010419591
LL21NC02-21A1.1	RNU12	0.89438456	0.016142882
AC024028.1	DAB2	0.921994075	0.008890056
RP11-473M20.11	DAB2	0.945357505	0.004397128
LLNLR-284B4.1	DAB2	0.9178654	0.009842095
CTA-315H11.2	DACT1	-0.956437752	0.002805171
RP11-66D17.5	DACT1	0.937171185	0.005797183
RP11-126K1.8	DACT1	0.965980816	0.001716272
RP3-438O4.4	DACT1	0.986722479	0.000263268
CCDC144NL-AS1	IL34	-0.866579624	0.025513987
NUP50-AS1	DACT1	0.97712706	0.000778774
PSMD5-AS1	DACT1	0.987362292	0.000238558
TOPORS-AS1	DACT1	0.976309816	0.000835189
AC087294.2	DACT1	0.996158545	2.21E-05
AP001062.8	DACT1	0.985920505	0.000295953
RP11-455F5.3	DACT1	0.997662414	8.19E-06
RP11-326C3.2	DACT1	0.995280838	3.34E-05
AP006621.8	DACT1	0.990199463	0.000143605
JHDM1D-AS1	DACT1	0.998509296	3.33E-06
RP11-20I23.6	DACT1	0.998124	5.28E-06
RP11-160E2.19	DACT1	0.960046281	0.00236256
AC005786.7	DACT1	0.989723261	0.000157874
AC005944.2	DACT1	0.967219585	0.001594221
CTB-191K22.5	DACT1	0.969443412	0.001386292
RP11-20I23.8	DACT1	0.998992451	1.52E-06
CDC37L1-AS1	DACT1	0.989532627	0.000163775
RP5-1142A6.10	DACT1	0.989583683	0.000162184
RP11-556I13.1	DACT1	0.998506398	3.34E-06
AC024028.1	DAP3P1	0.964355341	0.001883169
RP11-498J9.2	DAP3P1	1	0
LL21NC02-21A1.1	IL34	0.818037364	0.046653173
RP11-34P13.14	DAP3P1	0.978552256	0.000685076
RP11-93O14.2	DAP3P1	0.982998398	0.000431125
RP11-485G7.6	DAP3P1	0.965304842	0.001784749
RP11-78A19.3	DAP3P1	0.983256999	0.000418145
Z69720.3	DAP3P1	0.986539728	0.000270549
RP11-34P13.14	DAPK1	0.960232396	0.002340748
RP11-93O14.2	DAPK1	0.931648523	0.00684822
RP11-680G24.6	DAPK1	0.945771119	0.00433142
Z69720.3	DAPK1	0.948014968	0.003983422
AC024028.1	DBN1	0.998731413	2.41E-06
RP11-498J9.2	DBN1	0.964245293	0.001894744
RP11-34P13.14	DBN1	0.946248888	0.004256125
RP11-473M20.11	DBN1	0.988951619	0.000182426
RP11-78A19.3	DBN1	0.925914065	0.00802977
Z69720.3	DBN1	0.935275064	0.006148399
AC024028.1	DBNDD1	0.963087522	0.002018649
RP11-498J9.2	DBNDD1	0.999901507	1.46E-08
RP11-34P13.14	DBNDD1	0.978566335	0.00068418
RP11-93O14.2	DBNDD1	0.983578119	0.000402303
RP11-485G7.6	DBNDD1	0.965244406	0.001790935
RP11-78A19.3	DBNDD1	0.98289986	0.000436122

Z69720.3	DBNDD1	0.986873418	0.00025733
AC024028.1	DBNDD2	0.95912309	0.002472232
RP11-498J9.2	DBNDD2	0.997671494	8.13E-06
CCDC144NL-AS1	FAM167B	-0.866454693	0.025560677
RP11-34P13.14	DBNDD2	0.970729883	0.001272571
RP11-93O14.2	DBNDD2	0.975080214	0.000923756
RP11-485G7.6	DBNDD2	0.964796104	0.001837157
RP11-78A19.3	DBNDD2	0.972122342	0.001154913
Z69720.3	DBNDD2	0.987184506	0.000245303
RP11-66D17.5	DCAF6	0.965048285	0.001811085
RP11-126K1.8	DCAF6	0.990017705	0.000148972
RP3-438O4.4	DCAF6	0.98540551	0.000317944
NUP50-AS1	DCAF6	0.985282508	0.000323313
PSMD5-AS1	DCAF6	0.960485988	0.002311188
TOPORS-AS1	DCAF6	0.960697308	0.002286697
AC087294.2	DCAF6	0.987760404	0.000223795
AP001062.8	DCAF6	0.992516703	8.38E-05
RP11-455F5.3	DCAF6	0.986303946	0.000280088
RP11-326C3.2	DCAF6	0.953522594	0.003190025
AP006621.8	DCAF6	0.960205984	0.002343837
JHDM1D-AS1	DCAF6	0.983700868	0.000396328
RP11-20I23.6	DCAF6	0.971218625	0.001230631
AC005786.7	DCAF6	0.971734337	0.00118713
AC005944.2	DCAF6	0.946864048	0.004160131
LL21NC02-21A1.1	FAM167B	0.81761895	0.046861015
CTB-191K22.5	DCAF6	0.981151005	0.000529579
RP11-20I23.8	DCAF6	0.982173396	0.000473849
CDC37L1-AS1	DCAF6	0.981133718	0.000530547
RP5-1142A6.10	DCAF6	0.95348171	0.003195595
RP11-556I13.1	DCAF6	0.983586487	0.000401894
CTA-315H11.2	DGP2	-0.958957089	0.002492212
RP11-66D17.5	DGP2	0.94195671	0.004955761
RP11-126K1.8	DGP2	0.977973449	0.00072241
RP3-438O4.4	DGP2	0.982092653	0.000478138
NUP50-AS1	DGP2	0.980927438	0.000542175
PSMD5-AS1	DGP2	0.993304148	6.71E-05
TOPORS-AS1	DGP2	0.966657978	0.001649003
AC087294.2	DGP2	0.995817817	2.62E-05
AP001062.8	DGP2	0.989636413	0.000160549
RP11-455F5.3	DGP2	0.99853362	3.22E-06
RP11-326C3.2	DGP2	0.992742985	7.88E-05
AP006621.8	DGP2	0.994881123	3.92E-05
JHDM1D-AS1	DGP2	0.996436329	1.90E-05
RP11-20I23.6	DGP2	0.994798285	4.05E-05
RP11-160E2.19	DGP2	0.955538684	0.002921267
AC005786.7	DGP2	0.985317148	0.000321797
AC005944.2	DGP2	0.974396155	0.000974943
CTB-191K22.5	DGP2	0.97558127	0.000887131
RP11-20I23.8	DGP2	0.997427507	9.92E-06
CCDC144NL-AS1	GPR52	-0.865210436	0.026027896
CDC37L1-AS1	DGP2	0.984246675	0.000370296
RP5-1142A6.10	DGP2	0.984145432	0.000375058
RP11-556I13.1	DGP2	0.996351795	1.99E-05
CTA-315H11.2	DCUN1D1	-0.940671994	0.005175307
RP11-66D17.5	DCUN1D1	0.93641073	0.005936828
RP11-126K1.8	DCUN1D1	0.967987149	0.00152083
RP3-438O4.4	DCUN1D1	0.989676998	0.000159297
NUP50-AS1	DCUN1D1	0.968902291	0.001435564
PSMD5-AS1	DCUN1D1	0.959857281	0.002384813
TOPORS-AS1	DCUN1D1	0.962450424	0.002088484
AC087294.2	DCUN1D1	0.989461407	0.000166008
AP001062.8	DCUN1D1	0.982544843	0.000454365
RP11-455F5.3	DCUN1D1	0.988909303	0.000183823

RP11-326C3.2	DCUN1D1	0.969732672	0.001360303
AP006621.8	DCUN1D1	0.964171559	0.00190252
JHDM1D-AS1	DCUN1D1	0.991859782	9.91E-05
RP11-20I23.6	DCUN1D1	0.978734517	0.000673523
AC005786.7	DCUN1D1	0.971760887	0.001184912
RMRP	GPR52	0.814245735	0.048552278
AC005944.2	DCUN1D1	0.932274938	0.006724709
CTB-191K22.5	DCUN1D1	0.962314955	0.002103485
RP11-20I23.8	DCUN1D1	0.98931939	0.000170504
CDC37L1-AS1	DCUN1D1	0.990710078	0.000129053
RP5-1142A6.10	DCUN1D1	0.958752835	0.002516905
CTB-31O20.6	LILRB5	0.824105131	0.043687501
RP11-556I13.1	DCUN1D1	0.991891808	9.83E-05
RP4-784A16.3	DCUN1D4	0.922564518	0.008762219
RP11-77G23.2	DCUN1D4	0.987862935	0.000220069
AC024028.1	DDAH2	0.986675193	0.000265143
RP11-498J9.2	DDAH2	0.994176642	5.08E-05
RP11-34P13.14	DDAH2	0.973764057	0.001023458
RP11-93O14.2	DDAH2	0.963189687	0.00200756
RP11-485G7.6	DDAH2	0.939389063	0.005399196
RP11-473M20.11	DDAH2	0.952124909	0.003383171
RP11-78A19.3	DDAH2	0.966334006	0.00168102
Z69720.3	DDAH2	0.975362999	0.000902996
RMRP	DDI2	0.987789525	0.000222733
CTA-315H11.2	DDR1	-0.971331871	0.001221012
RP11-126K1.8	DDR1	0.934040165	0.006382564
RP3-438O4.4	DDR1	0.968602094	0.001463266
NUP50-AS1	DDR1	0.949299797	0.003790603
PSMD5-AS1	DDR1	0.976166765	0.000845266
TOPORS-AS1	DDR1	0.95236338	0.003349822
AC087294.2	DDR1	0.978501317	0.000688322
AP001062.8	DDR1	0.960890385	0.002264433
RP11-455F5.3	DDR1	0.98105442	0.000535002
RP11-326C3.2	DDR1	0.989779524	0.000156153
AP006621.8	DDR1	0.980357196	0.00057497
JHDM1D-AS1	DDR1	0.984879302	0.000341225
RP11-20I23.6	DDR1	0.986017115	0.000291915
RP11-160E2.19	DDR1	0.96854456	0.001468605
AC005786.7	DDR1	0.971895399	0.001173703
AC005944.2	DDR1	0.952875371	0.003278771
CTB-191K22.5	DDR1	0.94410345	0.004599314
RP11-20I23.8	DDR1	0.985635926	0.000308008
CDC37L1-AS1	DDR1	0.977762522	0.00073626
RP5-1142A6.10	DDR1	0.976707206	0.000807513
RP11-556I13.1	DDR1	0.984955167	0.000337818
RP4-784A16.3	DDX3Y	0.921754492	0.008944016
RP11-21J18.1	DDX3Y	0.939303121	0.00541436
CTA-315H11.2	DEF6	-0.968786795	0.001446191
RP11-126K1.8	DEF6	0.925385849	0.008143209
RP3-438O4.4	DEF6	0.95126201	0.003505202
NUP50-AS1	DEF6	0.941384075	0.005053043
PSMD5-AS1	DEF6	0.983245832	0.000418702
TOPORS-AS1	DEF6	0.95165945	0.003448732
AC087294.2	DEF6	0.97097181	0.001251724
AP001062.8	DEF6	0.951740896	0.003437215
RP11-455F5.3	DEF6	0.976375084	0.000830612
RP11-326C3.2	DEF6	0.997656221	8.23E-06
AP006621.8	DEF6	0.98825113	0.000206243
JHDM1D-AS1	DEF6	0.977250862	0.000770398
RP11-20I23.6	DEF6	0.986005389	0.000292403
RP11-160E2.19	DEF6	0.991739422	0.000102074
AC005786.7	DEF6	0.968873339	0.001438225
AC005944.2	DEF6	0.95630738	0.002821862

CTB-191K22.5	DEF6	0.931130472	0.006951193
RP11-20I23.8	DEF6	0.979750896	0.000610888
CDC37L1-AS1	DEF6	0.958197441	0.002584657
RP5-1142A6.10	DEF6	0.983926459	0.000385462
RP11-556I13.1	DEF6	0.977264773	0.00076946
RMRP	DEGS2	-0.964824591	0.001834203
AC024028.1	DENND1B	0.92474616	0.008281624
RP11-498J9.2	DENND1B	0.928037763	0.007581515
RP11-34P13.14	DENND1B	0.984097064	0.000377344
RP11-93O14.2	DENND1B	0.929975255	0.007183515
RP11-78A19.3	DENND1B	0.919258092	0.009515695
Z69720.3	DENND1B	0.94906539	0.003825431
CTA-315H11.2	DENND1C	-0.938004056	0.005646105
PSMD5-AS1	DENND1C	0.930083308	0.007161627
RP11-326C3.2	DENND1C	0.949979968	0.00369043
AP006621.8	DENND1C	0.938224529	0.005606439
RP11-160E2.19	DENND1C	0.988608579	0.000193908
RP5-1142A6.10	DENND1C	0.921432572	0.009016769
AC011558.5	DENND1C	0.975030839	0.000927405
CTA-315H11.2	DENND2D	-0.937369565	0.005761021
RP11-66D17.5	DENND2D	0.956424362	0.002806883
RP11-126K1.8	DENND2D	0.968302481	0.001491175
RP3-438O4.4	DENND2D	0.99347863	6.37E-05
NUP50-AS1	DENND2D	0.985535254	0.00031233
PSMD5-AS1	DENND2D	0.981868935	0.000490123
TOPORS-AS1	DENND2D	0.983848176	0.000389215
AC087294.2	DENND2D	0.997602461	8.62E-06
AP001062.8	DENND2D	0.990337269	0.000139601
RP11-455F5.3	DENND2D	0.996508982	1.83E-05
RP11-326C3.2	DENND2D	0.986942433	0.000254637
AP006621.8	DENND2D	0.98245489	0.000459046
JHDM1D-AS1	DENND2D	0.997955978	6.26E-06
RP11-20I23.6	DENND2D	0.997997972	6.01E-06
RP11-160E2.19	DENND2D	0.947313392	0.004090692
AC005786.7	DENND2D	0.995944557	2.46E-05
AC005944.2	DENND2D	0.972229059	0.001146129
CTB-191K22.5	DENND2D	0.979720626	0.00061271
RP11-20I23.8	DENND2D	0.998349823	4.08E-06
CCDC144NL-AS1	WNK2	-0.83981051	0.036435724
CDC37L1-AS1	DENND2D	0.995621978	2.87E-05
RP5-1142A6.10	DENND2D	0.991416125	0.000110208
RP11-556I13.1	DENND2D	0.9979689	6.18E-06
AC011558.5	DENND3	0.968683848	0.001455696
AC011558.5	DENND5A	0.969925072	0.001343151
AC011558.5	DEPDC1	-0.93551186	0.006103986
CTD-2541M15.3	DEPDC1B	0.925794822	0.008055311
AC011558.5	DEPDC1B	-0.969904375	0.00134499
RP5-1033H22.2	DES	0.977312673	0.000766233
RP11-298J23.8	DES	0.980213657	0.000583376
RP11-165D6.1	DES	0.970844396	0.001262682
CTA-315H11.2	DGAT2	-0.953895428	0.003139447
RP11-66D17.5	DGAT2	0.939711113	0.005342557
RP11-126K1.8	DGAT2	0.967521948	0.001565107
RP11-160E2.19	WNK2	0.915500293	0.010408628
RP3-438O4.4	DGAT2	0.986071791	0.000289641
NUP50-AS1	DGAT2	0.979110221	0.000650016
PSMD5-AS1	DGAT2	0.989134815	0.000176437
TOPORS-AS1	DGAT2	0.977444735	0.000757373
AC087294.2	DGAT2	0.99636807	1.98E-05
LL21NC02-21A1.1	WNK2	0.883079257	0.01970651
AP001062.8	DGAT2	0.986915276	0.000255695
RP11-455F5.3	DGAT2	0.997905119	6.58E-06
CTA-315H11.2	IDO1	-0.874383344	0.02267823

RP11-326C3.2	DGAT2	0.995553365	2.96E-05
AP006621.8	DGAT2	0.991465502	0.000108946
JHDM1D-AS1	DGAT2	0.998125651	5.27E-06
RP11-20I23.6	DGAT2	0.998802224	2.15E-06
RP11-160E2.19	DGAT2	0.961558643	0.002188204
AC005786.7	DGAT2	0.991073117	0.000119178
AC005944.2	DGAT2	0.970816223	0.001265111
CTB-191K22.5	DGAT2	0.97144811	0.001211178
RP11-20I23.8	DGAT2	0.998915819	1.76E-06
CDC37L1-AS1	DGAT2	0.988459425	0.000199009
RP5-1142A6.10	DGAT2	0.991428827	0.000109883
RP11-556I13.1	DGAT2	0.998107969	5.37E-06
CTA-315H11.2	DGKA	-0.967703834	0.00154772
RP11-160E2.19	IDO1	0.899875752	0.014535431
RP11-126K1.8	DGKA	0.944528159	0.004530341
RP3-438O4.4	DGKA	0.959368023	0.002442896
NUP50-AS1	DGKA	0.955189625	0.002966966
PSMD5-AS1	DGKA	0.990766012	0.000127506
TOPORS-AS1	DGKA	0.957017654	0.002731518
LL21NC02-21A1.1	IDO1	0.891912699	0.016892912
AC087294.2	DGKA	0.979655453	0.000616641
AP001062.8	DGKA	0.964863143	0.001830208
RP11-455F5.3	DGKA	0.984929728	0.000338958
RP11-326C3.2	DGKA	0.999371565	5.92E-07
AP006621.8	DGKA	0.994687858	4.23E-05
JHDM1D-AS1	DGKA	0.983871768	0.000388082
RP11-20I23.6	DGKA	0.990469889	0.000135802
RP11-160E2.19	DGKA	0.985803908	0.000300863
AC005786.7	DGKA	0.974996174	0.000929971
AC005944.2	DGKA	0.965669756	0.001747618
CTB-191K22.5	DGKA	0.945837476	0.004320924
RP11-20I23.8	DGKA	0.986273015	0.000281352
CDC37L1-AS1	DGKA	0.964235244	0.001895803
RP5-1142A6.10	DGKA	0.986601592	0.000268073
RP11-556I13.1	DGKA	0.983830509	0.000390065
CTA-315H11.2	DGKD	-0.958011207	0.002607574
RP11-326C3.2	DGKD	0.934038848	0.006382816
RP11-160E2.19	DGKD	0.970897403	0.001258117
AC011558.5	DGKD	0.955668212	0.002904398
CTA-315H11.2	DGKZ	-0.957751482	0.0026397
RP11-66D17.5	DGKZ	0.931172649	0.006942782
RP11-126K1.8	DGKZ	0.955632877	0.002908995
RP3-438O4.4	DGKZ	0.980829359	0.000547747
NUP50-AS1	DGKZ	0.971882123	0.001174807
PSMD5-AS1	DGKZ	0.988049669	0.000213362
TOPORS-AS1	DGKZ	0.97360244	0.001036049
AC087294.2	DGKZ	0.991575551	0.000106158
AP001062.8	DGKZ	0.979246616	0.000641585
RP11-455F5.3	DGKZ	0.993270229	6.78E-05
RP11-326C3.2	DGKZ	0.99644303	1.90E-05
AP006621.8	DGKZ	0.990382262	0.000138306
JHDM1D-AS1	DGKZ	0.994508196	4.52E-05
RP11-20I23.6	DGKZ	0.997872901	6.78E-06
RP11-160E2.19	DGKZ	0.970903588	0.001257585
AC005786.7	DGKZ	0.989116596	0.000177028
AC005944.2	DGKZ	0.971306394	0.001223173
CTB-191K22.5	DGKZ	0.96488758	0.001827678
RP11-20I23.8	DGKZ	0.995797558	2.65E-05
CDC37L1-AS1	DGKZ	0.985513352	0.000313274
RP5-1142A6.10	DGKZ	0.992558836	8.29E-05
RP11-556I13.1	DGKZ	0.994521073	4.49E-05
RP11-91K8.5	DHRS2	0.990664927	0.000130309
CTD-2139B15.2	DHRS7B	0.92697914	0.007803394

RP11-66D17.5	DHX36	-0.973998864	0.001005299
RP11-126K1.8	DHX36	-0.941734419	0.004993415
NUP50-AS1	DHX36	-0.954424982	0.003068292
AP001062.8	DHX36	-0.93647382	0.005925181
AC005786.7	DHX36	-0.920679528	0.009188074
AC005944.2	DHX36	-0.921808978	0.00893173
CTB-191K22.5	DHX36	-0.95389968	0.003138872
LL21NC02-21A1.1	DHX36	-0.933827728	0.006423278
RP3-339A18.6	DIAPH2	0.922929608	0.008680875
LLNLR-284B4.1	DIAPH3	-0.949495561	0.003761637
AC011558.5	DIAPH3	-0.919925356	0.009361206
CCDC144NL-AS1	DIP2A	-0.946705133	0.004184826
CTA-315H11.2	DIP2A	-0.943679459	0.004668681
RP11-160E2.19	DIP2A	0.952119962	0.003383865
AC011558.5	DIP2A	0.931788342	0.006820557
RP5-1033H22.2	DIP2B	0.931664025	0.00684515
RP3-339A18.6	DIP2B	0.933545659	0.006477532
RP11-165D6.1	DIP2B	0.939508846	0.005378096
AC024028.1	DIRAS1	0.942993201	0.004782033
RP11-498J9.2	DIRAS1	0.994785111	4.07E-05
RP11-34P13.14	DIRAS1	0.977622609	0.000745519
RP11-93O14.2	DIRAS1	0.985599483	0.000309569
RP11-485G7.6	DIRAS1	0.964002431	0.001920414
RP11-78A19.3	DIRAS1	0.978477711	0.000689829
CCDC144NL-AS1	PAGE2B	-0.853398928	0.030662446
Z69720.3	DIRAS1	0.990338876	0.000139555
RP11-160E2.19	DISC1	0.94080698	0.00515202
AC011558.5	DISC1	0.981909699	0.000487928
RP3-339A18.6	DLC1	0.971761748	0.00118484
AC024028.1	DLG4	0.96773478	0.001544772
RP11-498J9.2	DLG4	0.992331418	8.80E-05
RP11-34P13.14	DLG4	0.99316667	6.99E-05
RP11-93O14.2	DLG4	0.980979305	0.00053924
RP11-485G7.6	DLG4	0.932566872	0.006667523
RP11-78A19.3	DLG4	0.97586276	0.000866878
Z69720.3	DLG4	0.987360223	0.000238636
AC024028.1	DLGAP4	0.991670466	0.000103783
RP11-498J9.2	DLGAP4	0.940796864	0.005153763
RP11-34P13.14	DLGAP4	0.946028139	0.004290834
RP11-473M20.11	DLGAP4	0.980789143	0.000550041
Z69720.3	DLGAP4	0.923630397	0.008525769
RP11-91K8.5	DLGAP5	0.929664327	0.007246681
AC011558.5	DLGAP5	-0.932550863	0.006670653
MIR210HG	DMC1	0.925162319	0.008191447
RP3-337H4.8	DMGDH	0.947929516	0.003996413
LL21NC02-21A1.1	PAGE2B	0.826056081	0.042753265
MIR210HG	DMGDH	0.960661604	0.002290826
RP11-160E2.19	DNAH1	0.963522482	0.001971645
AC011558.5	DNAH1	0.979153112	0.000647359
RP11-160E2.19	DNAH14	-0.934748301	0.006247762
AC011558.5	DNAH14	-0.943980137	0.004619436
CTA-315H11.2	DNAJB2	-0.947524963	0.004058196
RP11-66D17.5	DNAJB2	0.950453152	0.003621519
RP11-126K1.8	DNAJB2	0.974736581	0.000949298
RP3-438O4.4	DNAJB2	0.992408462	8.62E-05
NUP50-AS1	DNAJB2	0.984287668	0.000368377
PSMD5-AS1	DNAJB2	0.984835486	0.0003432
TOPORS-AS1	DNAJB2	0.978720688	0.000674396
AC087294.2	DNAJB2	0.999064638	1.31E-06
AP001062.8	DNAJB2	0.992111035	9.31E-05
RP11-455F5.3	DNAJB2	0.999387708	5.62E-07
RP11-326C3.2	DNAJB2	0.989548789	0.000163271
AP006621.8	DNAJB2	0.986643651	0.000266397

JHDM1D-AS1	DNAJB2	0.999900857	1.47E-08
RP11-20I23.6	DNAJB2	0.997065558	1.29E-05
RP11-160E2.19	DNAJB2	0.946080855	0.004282532
AC005786.7	DNAJB2	0.991624065	0.000104941
AC005944.2	DNAJB2	0.96804261	0.001515594
CTB-191K22.5	DNAJB2	0.977836949	0.000731358
RP11-20I23.8	DNAJB2	0.999922206	9.08E-09
CCDC144NL-AS1	BEST3	-0.8793794	0.020946519
CDC37L1-AS1	DNAJB2	0.993961794	5.46E-05
RP5-1142A6.10	DNAJB2	0.986880887	0.000257038
RP11-556I13.1	DNAJB2	0.999884617	2.00E-08
AC024028.1	DNAJB5	0.928556425	0.007473946
RP11-498J9.2	DNAJB5	0.992378783	8.69E-05
RP11-34P13.14	DNAJB5	0.978403165	0.000694598
RP11-93O14.2	DNAJB5	0.992289104	8.90E-05
RP11-485G7.6	DNAJB5	0.972061397	0.001159944
RP11-78A19.3	DNAJB5	0.987528833	0.000232325
LA16c-359F1.1	DNAJB5	0.934863149	0.006226032
Z69720.3	DNAJB5	0.99006047	0.0001477
CCDC144NL-AS1	DNAJC12	0.94685107	0.004162145
RP11-156P1.3	DNAJC12	0.926285712	0.00795042
RP11-93O14.2	DNAJC18	0.947426926	0.004073238
RP11-78A19.3	DNAJC18	0.926465211	0.007912233
RP11-680G24.6	DNAJC18	0.935763633	0.006056937
LA16c-359F1.1	DNAJC18	0.928801031	0.007423475
CTA-315H11.2	DNMT3A	-0.942985266	0.004783351
RMRP	BEST3	0.842104286	0.035428331
RP11-326C3.2	DNMT3A	0.939126809	0.005445534
RP11-160E2.19	DNMT3A	0.977771053	0.000735697
LL21NC02-21A1.1	BEST3	0.815722462	0.047808449
AC011558.5	DNMT3A	0.972215295	0.00114726
AC024028.1	DOCK1	0.962326224	0.002102235
RP11-498J9.2	DOCK1	0.999591541	2.50E-07
RP11-34P13.14	DOCK1	0.982850359	0.000438643
RP11-93O14.2	DOCK1	0.984308483	0.000367404
RP11-485G7.6	DOCK1	0.961922145	0.00214728
RP11-78A19.3	DOCK1	0.982855916	0.00043836
Z69720.3	DOCK1	0.990186502	0.000143985
AC024028.1	DOCK10	0.996160817	2.21E-05
RP11-498J9.2	DOCK10	0.938751416	0.0055122
RP11-34P13.14	DOCK10	0.938188905	0.005612839
RP11-473M20.11	DOCK10	0.994497842	4.53E-05
CTA-315H11.2	DOCK5	-0.955668049	0.00290442
RP11-326C3.2	DOCK5	0.938701107	0.005521164
RP11-160E2.19	DOCK5	0.971140349	0.001237301
AC011558.5	DOCK5	0.955146903	0.002972583
AC024028.1	DOCK6	0.959547345	0.002421527
RP11-498J9.2	DOCK6	0.999418599	5.07E-07
RP11-34P13.14	DOCK6	0.982513301	0.000456003
RP11-93O14.2	DOCK6	0.986338574	0.000278677
RP11-485G7.6	DOCK6	0.963659374	0.001956965
RP11-78A19.3	DOCK6	0.984411355	0.000362615
Z69720.3	DOCK6	0.989651622	0.000160079
AC024028.1	DOK2	0.937869176	0.005670439
CCDC144NL-AS1	HPD	-0.836382014	0.037966172
CTA-315H11.2	HPD	-0.89576587	0.015730892
RP11-473M20.11	DOK2	0.975552221	0.000889235
RP11-66D17.5	DPCD	0.977369923	0.000762386
RP11-126K1.8	DPCD	0.991006128	0.000120971
RP3-438O4.4	DPCD	0.993150639	7.02E-05
NUP50-AS1	DPCD	0.996511303	1.82E-05
PSMD5-AS1	DPCD	0.977663902	0.00074278
TOPORS-AS1	DPCD	0.975436374	0.000897647

AC087294.2	DPCD	0.997181515	1.19E-05
AP001062.8	DPCD	0.999801622	5.90E-08
RP11-455F5.3	DPCD	0.995448663	3.10E-05
RP11-326C3.2	DPCD	0.969823214	0.001352218
AP006621.8	DPCD	0.975702676	0.000878368
JHDM1D-AS1	DPCD	0.993099133	7.13E-05
RP11-160E2.19	HPD	0.877554936	0.021571294
RP11-20I23.6	DPCD	0.987636663	0.000228333
AC005786.7	DPCD	0.98959956	0.000161691
AC005944.2	DPCD	0.973066692	0.001078336
RMRP	HPD	0.846574982	0.0335031
CTB-191K22.5	DPCD	0.993634934	6.06E-05
RP11-20I23.8	DPCD	0.993092187	7.14E-05
LL21NC02-21A1.1	HPD	0.890233303	0.017411817
CDC37L1-AS1	DPCD	0.991268509	0.000114026
RP5-1142A6.10	DPCD	0.976466457	0.000824225
CCDC144NL-AS1	SFRP2	-0.856625311	0.029360825
RP11-556I13.1	DPCD	0.993001428	7.33E-05
AC024028.1	DPF1	0.939985711	0.005294495
RP11-498J9.2	DPF1	0.994884192	3.92E-05
RP11-34P13.14	DPF1	0.971573202	0.001200639
RP11-93O14.2	DPF1	0.979051076	0.000653689
RP11-485G7.6	DPF1	0.970920668	0.001256116
RP11-78A19.3	DPF1	0.973997877	0.001005375
Z69720.3	DPF1	0.992908382	7.53E-05
CTA-315H11.2	DPM2	-0.931667024	0.006844557
RP11-66D17.5	DPM2	0.967879881	0.001530984
RP11-126K1.8	DPM2	0.983668496	0.000397899
RP3-438O4.4	DPM2	0.995212753	3.43E-05
NUP50-AS1	DPM2	0.99271377	7.94E-05
PSMD5-AS1	DPM2	0.982040265	0.000480932
TOPORS-AS1	DPM2	0.979456549	0.000628715
AC087294.2	DPM2	0.999682443	1.51E-07
AP001062.8	DPM2	0.997627416	8.44E-06
RP11-455F5.3	DPM2	0.998561218	3.10E-06
RP11-326C3.2	DPM2	0.980221335	0.000582925
AP006621.8	DPM2	0.98159186	0.000505171
LL21NC02-21A1.1	SFRP2	0.813180912	0.049091936
JHDM1D-AS1	DPM2	0.997901711	6.60E-06
RP11-20I23.6	DPM2	0.994044584	5.31E-05
RP11-160E2.19	DPM2	0.930196873	0.007138658
AC005786.7	DPM2	0.993172942	6.98E-05
AC005944.2	DPM2	0.973236473	0.001064844
CTB-191K22.5	DPM2	0.988535338	0.000196404
RP11-20I23.8	DPM2	0.997940003	6.36E-06
CDC37L1-AS1	DPM2	0.995304887	3.30E-05
RP5-1142A6.10	DPM2	0.983790736	0.000391981
RP11-556I13.1	DPM2	0.997851707	6.92E-06
CTA-315H11.2	WDR78	-0.838546905	0.036996346
CTA-315H11.2	DPP4	-0.964430283	0.001875306
RP11-126K1.8	DPP4	0.94804353	0.003979085
RP3-438O4.4	DPP4	0.966625356	0.001652213
NUP50-AS1	DPP4	0.960997131	0.00225217
PSMD5-AS1	DPP4	0.990661244	0.000130411
TOPORS-AS1	DPP4	0.964161829	0.001903547
AC087294.2	DPP4	0.984087438	0.0003778
AP001062.8	DPP4	0.969847048	0.001350093
RP11-455F5.3	DPP4	0.988271094	0.000205544
RP11-326C3.2	DPP4	0.999802244	5.87E-08
AP006621.8	DPP4	0.994211114	5.02E-05
JHDM1D-AS1	DPP4	0.987934494	0.000217486
RP11-20I23.6	DPP4	0.993947692	5.48E-05
RP11-160E2.19	WDR78	0.880778974	0.020473197

RP11-160E2.19	DPP4	0.982984173	0.000431844
AC005786.7	DPP4	0.980637989	0.000558702
AC005944.2	DPP4	0.967888322	0.001530184
CTB-191K22.5	DPP4	0.951837221	0.003423619
RP11-20I23.8	DPP4	0.990023056	0.000148813
CDC37L1-AS1	DPP4	0.971186567	0.00123336
RP5-1142A6.10	DPP4	0.990161979	0.000144704
RP11-556I13.1	DPP4	0.987911345	0.00021832
CCDC144NL-AS1	TRIM15	-0.866058799	0.025708899
AC024028.1	DPPA4	0.995198703	3.45E-05
RP11-498J9.2	DPPA4	0.984145147	0.000375072
RP11-34P13.14	DPPA4	0.966369272	0.00167752
RP11-93O14.2	DPPA4	0.949381931	0.003778437
RP11-485G7.6	DPPA4	0.917303205	0.009975368
RP11-473M20.11	DPPA4	0.9713592	0.001218696
RP11-78A19.3	DPPA4	0.955622763	0.002910312
Z69720.3	DPPA4	0.958413525	0.002558192
AC005944.2	DPY19L1	-0.919587017	0.009439387
LLNLR-284B4.1	DPY19L2P1	-0.937801293	0.005682705
RP11-77G23.2	DPY19L2P1	0.938049126	0.005637985
LLNLR-284B4.1	DPY19L2P2	-0.953868552	0.003143079
CTD-2541M15.3	DPY19L2P2	0.918103862	0.009785828
CTA-315H11.2	DRAM1	0.948966694	0.003840142
RP11-160E2.19	TRIM15	0.916467843	0.010175004
RP3-438O4.4	DRAM1	-0.917424569	0.009946524
PSMD5-AS1	DRAM1	-0.917261913	0.009985191
AC087294.2	DRAM1	-0.922747458	0.008721413
RMRP	TRIM15	0.838401752	0.037061003
RP11-455F5.3	DRAM1	-0.92562275	0.008092236
RP11-326C3.2	DRAM1	-0.956284217	0.002824833
LL21NC02-21A1.1	TRIM15	0.846937876	0.03334905
AP006621.8	DRAM1	-0.927206854	0.007755404
JHDM1D-AS1	DRAM1	-0.937243883	0.005783918
CCDC144NL-AS1	TMPRSS4	-0.831828304	0.040044487
CTA-315H11.2	TMPRSS4	-0.915485654	0.010412183
RP11-20I23.6	DRAM1	-0.942244683	0.004907188
RP11-160E2.19	DRAM1	-0.954299894	0.003085027
AC005786.7	DRAM1	-0.921583771	0.008982563
RP11-20I23.8	DRAM1	-0.937138926	0.005803074
CDC37L1-AS1	DRAM1	-0.932129022	0.006753382
RP5-1142A6.10	DRAM1	-0.936388175	0.005940995
RP11-556I13.1	DRAM1	-0.937536866	0.00573061
AC011558.5	DSCC1	-0.988190349	0.000208378
RP11-91K8.5	DSN1	0.925512607	0.008115916
AC011558.5	DSN1	-0.939081988	0.005453473
RP11-498J9.2	DSTNP2	0.937525239	0.005732721
RP11-34P13.14	DSTNP2	0.93904197	0.005460566
RP11-93O14.2	DSTNP2	0.98440051	0.000363118
RP11-160E2.19	TMPRSS4	0.914857309	0.010565305
RP11-485G7.6	DSTNP2	0.930826066	0.00701205
RP11-78A19.3	DSTNP2	0.976496891	0.000822103
RP11-680G24.6	DSTNP2	0.929036931	0.007374959
LA16c-359F1.1	DSTNP2	0.952636638	0.003311807
Z69720.3	DSTNP2	0.921063577	0.009100513
LL21NC02-21A1.1	TMPRSS4	0.878783764	0.021149526
AC011558.5	DTL	-0.951525943	0.003467651
CTD-2139B15.2	DTYMK	0.940479774	0.005208556
CCDC144NL-AS1	C9orf153	-0.849565955	0.032243411
AC024028.1	DUSP10	0.929950472	0.00718854
RP11-498J9.2	DUSP10	0.987497877	0.000233478
RP11-34P13.14	DUSP10	0.98922068	0.000173664
RP11-93O14.2	DUSP10	0.992046759	9.46E-05
RP11-485G7.6	DUSP10	0.952208637	0.003371443

RP11-78A19.3	DUSP10	0.9851934	0.00032723
LA16c-359F1.1	DUSP10	0.937222039	0.005787902
Z69720.3	DUSP10	0.991237956	0.000114824
CTA-315H11.2	DUSP13	-0.969885786	0.001346644
RP11-126K1.8	DUSP13	0.943779519	0.004652265
RP3-438O4.4	DUSP13	0.961022252	0.002249289
NUP50-AS1	DUSP13	0.951758041	0.003434793
PSMD5-AS1	DUSP13	0.986165423	0.000285769
TOPORS-AS1	DUSP13	0.956718132	0.00276944
AC087294.2	DUSP13	0.97981255	0.000607186
AP001062.8	DUSP13	0.963985336	0.001922228
RP11-455F5.3	DUSP13	0.985184968	0.000327602
RP11-326C3.2	DUSP13	0.998656946	2.70E-06
RMRP	C9orf153	0.812762244	0.049304878
AP006621.8	DUSP13	0.99166332	0.000103961
JHDM1D-AS1	DUSP13	0.985026131	0.000334646
LL21NC02-21A1.1	C9orf153	0.816479588	0.047429152
RP11-20I23.6	DUSP13	0.98870747	0.000190562
RP11-160E2.19	DUSP13	0.979559337	0.000622461
CCDC144NL-AS1	HIST1H2AB	-0.846596572	0.033493926
AC005786.7	DUSP13	0.971864931	0.001176238
AC005944.2	DUSP13	0.954795451	0.00301899
CTB-191K22.5	DUSP13	0.940810688	0.005151381
RP11-20I23.8	DUSP13	0.986555793	0.000269905
CDC37L1-AS1	DUSP13	0.96527829	0.001787465
RP5-1142A6.10	DUSP13	0.982115534	0.000476921
RP11-556I13.1	DUSP13	0.985005072	0.000335586
AC024028.1	DUSP15	0.963695934	0.001953054
RP11-498J9.2	DUSP15	0.999969362	1.41E-09
RP11-34P13.14	DUSP15	0.979826795	0.000606332
RP11-93O14.2	DUSP15	0.98411102	0.000376684
RP11-485G7.6	DUSP15	0.964946705	0.001821565
RP11-78A19.3	DUSP15	0.984190013	0.000372958
Z69720.3	DUSP15	0.987068802	0.000249743
RP11-160E2.19	HIST1H2AB	0.887994418	0.018115307
AC024028.1	DUSP2	0.968111593	0.001509093
RP11-498J9.2	DUSP2	0.999153127	1.08E-06
RP11-34P13.14	DUSP2	0.979336124	0.000636082
RMRP	HIST1H2AB	0.862456861	0.027076144
RP11-93O14.2	DUSP2	0.979895555	0.00060222
RP11-485G7.6	DUSP2	0.958064064	0.002601059
LL21NC02-21A1.1	HIST1H2AB	0.840588747	0.036092446
RP11-473M20.11	DUSP2	0.919259631	0.009515337
RP11-78A19.3	DUSP2	0.978192536	0.000708163
Z69720.3	DUSP2	0.986548125	0.000270212
AC024028.1	DUSP3	0.917683078	0.009885221
RP11-498J9.2	DUSP3	0.987706959	0.000225749
RP11-34P13.14	DUSP3	0.946420601	0.004229221
RP11-93O14.2	DUSP3	0.980258722	0.00058073
RP11-485G7.6	DUSP3	0.989006043	0.000180636
RP11-78A19.3	DUSP3	0.976838966	0.000798438
Z69720.3	DUSP3	0.971836611	0.001178595
AC024028.1	DUSP5	0.948818649	0.003862261
RP11-498J9.2	DUSP5	0.994565368	4.42E-05
RP11-34P13.14	DUSP5	0.98784284	0.000220796
RP11-93O14.2	DUSP5	0.987865689	0.000219969
RP11-485G7.6	DUSP5	0.953835209	0.003147589
RP11-78A19.3	DUSP5	0.981190259	0.000527382
Z69720.3	DUSP5	0.99299786	7.34E-05
AC024028.1	DUSP6	0.972844358	0.001096131
RP11-498J9.2	DUSP6	0.999317679	6.98E-07
RP11-34P13.14	DUSP6	0.977660742	0.00074299
RP11-93O14.2	DUSP6	0.977550249	0.00075033

RP11-485G7.6	DUSP6	0.959004175	0.002486537
RP11-473M20.11	DUSP6	0.928585903	0.007467855
RP11-78A19.3	DUSP6	0.979535665	0.000623898
Z69720.3	DUSP6	0.983630743	0.000399736
CTD-2139B15.2	DUT	0.968527374	0.001470202
RP11-160E2.19	DYNC2LI1	-0.963974032	0.001923427
AC011558.5	DYNC2LI1	-0.986288788	0.000280707
RP11-118G23.2	DYRK1A	0.91795464	0.00982102
CTA-315H11.2	DYSF	-0.924674405	0.008297221
RP11-66D17.5	DYSF	0.958564894	0.002539733
RP11-126K1.8	DYSF	0.968906116	0.001435213
RP3-438O4.4	DYSF	0.989477706	0.000165496
NUP50-AS1	DYSF	0.988402504	0.000200973
PSMD5-AS1	DYSF	0.983712436	0.000395767
TOPORS-AS1	DYSF	0.989426609	0.000167104
AC087294.2	DYSF	0.996154843	2.21E-05
AP001062.8	DYSF	0.990484876	0.000135376
RP11-455F5.3	DYSF	0.995222239	3.42E-05
RP11-326C3.2	DYSF	0.987151956	0.000246548
AP006621.8	DYSF	0.983563874	0.000402999
JHDM1D-AS1	DYSF	0.994994839	3.75E-05
RP11-20I23.6	DYSF	0.998754245	2.33E-06
RP11-160E2.19	DYSF	0.951092593	0.00352941
AC005786.7	DYSF	0.998771337	2.26E-06
AC005944.2	DYSF	0.977111676	0.000779818
CTB-191K22.5	DYSF	0.980431842	0.000570623
RP11-20I23.8	DYSF	0.996166837	2.20E-05
CDC37L1-AS1	DYSF	0.989212163	0.000173938
RP5-1142A6.10	DYSF	0.996719454	1.61E-05
RP11-556I13.1	DYSF	0.994971477	3.79E-05
CTA-315H11.2	E2F2	-0.919478888	0.009464439
RP11-66D17.5	E2F2	0.977010199	0.000786721
RP11-126K1.8	E2F2	0.994196878	5.04E-05
RP3-438O4.4	E2F2	0.989241391	0.000172999
NUP50-AS1	E2F2	0.996462014	1.88E-05
PSMD5-AS1	E2F2	0.980639096	0.000558638
TOPORS-AS1	E2F2	0.969580942	0.001373905
AC087294.2	E2F2	0.995810959	2.63E-05
AP001062.8	E2F2	0.999715831	1.21E-07
RP11-455F5.3	E2F2	0.994835929	3.99E-05
RP11-326C3.2	E2F2	0.969112392	0.001416332
AP006621.8	E2F2	0.978133882	0.000711963
JHDM1D-AS1	E2F2	0.99117766	0.000116407
RP11-20I23.6	E2F2	0.985775981	0.000302045
AC005786.7	E2F2	0.986747014	0.000262299
AC005944.2	E2F2	0.976616831	0.000813766
CTB-191K22.5	E2F2	0.994748933	4.13E-05
RP11-20I23.8	E2F2	0.991559497	0.000106562
CDC37L1-AS1	E2F2	0.987506102	0.000233171
RP5-1142A6.10	E2F2	0.974054897	0.00100099
RP11-556I13.1	E2F2	0.99104451	0.000119942
RP11-680G24.6	E2F6	0.949384351	0.003778079
LA16c-359F1.1	E2F6	0.953132141	0.003243419
AC011558.5	E2F7	-0.926241908	0.007959753
AC024028.1	EBF1	0.964355341	0.001883169
RP11-498J9.2	EBF1	1	0
RP11-34P13.14	EBF1	0.978552256	0.000685076
RP11-93O14.2	EBF1	0.982998398	0.000431125
RP11-485G7.6	EBF1	0.965304842	0.001784749
RP11-78A19.3	EBF1	0.983256999	0.000418145
Z69720.3	EBF1	0.986539728	0.000270549
RP11-770G2.2	ECE2	0.919453234	0.009470387
CTA-315H11.2	ECHDC2	-0.918606496	0.009667742

RP11-160E2.19	ECHDC2	0.968371907	0.001484685
AC011558.5	ECHDC2	0.985034426	0.000334277
CCDC144NL-AS1	ECHS1	0.949695272	0.003732199
CTD-2531D15.5	ECHS1	0.941612753	0.005014083
RP11-66D17.5	ECSIT	0.992779902	7.80E-05
RP11-126K1.8	ECSIT	0.944155769	0.00459079
RP3-438O4.4	ECSIT	0.945089413	0.004439976
NUP50-AS1	ECSIT	0.970959396	0.001252789
TOPORS-AS1	ECSIT	0.945626922	0.004354272
AC087294.2	ECSIT	0.93562321	0.006083156
AP001062.8	ECSIT	0.954474946	0.00306162
RP11-455F5.3	ECSIT	0.925200472	0.008183203
JHDM1D-AS1	ECSIT	0.920645039	0.009195957
RP11-20I23.6	ECSIT	0.92252015	0.00877213
AC005786.7	ECSIT	0.951256109	0.003506043
AC005944.2	ECSIT	0.940008155	0.005290576
CTB-191K22.5	ECSIT	0.972389619	0.001132976
RP11-20I23.8	ECSIT	0.921820992	0.008929023
CDC37L1-AS1	ECSIT	0.935809375	0.006048408
LL21NC02-21A1.1	ECSIT	0.95257201	0.003320779
RP5-1142A6.10	ECSIT	0.92592353	0.008027744
RP11-556I13.1	ECSIT	0.920502663	0.009228535
AC011558.5	ECT2	-0.965383854	0.001776676
CTA-315H11.2	EDIL3	-0.950315278	0.003641532
RP11-66D17.5	EDIL3	0.945387629	0.004392326
RP11-126K1.8	EDIL3	0.970486817	0.001293689
RP3-438O4.4	EDIL3	0.991249587	0.00011452
NUP50-AS1	EDIL3	0.981356383	0.000518137
PSMD5-AS1	EDIL3	0.98468421	0.000350064
TOPORS-AS1	EDIL3	0.978936239	0.00066085
AC087294.2	EDIL3	0.998176674	4.98E-06
AP001062.8	EDIL3	0.989642925	0.000160348
RP11-455F5.3	EDIL3	0.998731316	2.41E-06
RP11-326C3.2	EDIL3	0.991581411	0.000106011
AP006621.8	EDIL3	0.98703865	0.000250906
JHDM1D-AS1	EDIL3	0.999759498	8.68E-08
RP11-20I23.6	EDIL3	0.997664879	8.17E-06
RP11-160E2.19	EDIL3	0.950667178	0.00359056
AC005786.7	EDIL3	0.99132612	0.000112528
AC005944.2	EDIL3	0.966393661	0.001675102
CTB-191K22.5	EDIL3	0.97422045	0.000988311
RP11-20I23.8	EDIL3	0.999819471	4.89E-08
CDC37L1-AS1	EDIL3	0.99329629	6.73E-05
RP5-1142A6.10	EDIL3	0.98806012	0.00021299
RP11-556I13.1	EDIL3	0.999758466	8.75E-08
RP11-473M20.11	EDN1	0.959991627	0.002368985
AC024028.1	EEF1A2	0.9579906	0.002610116
RP11-498J9.2	EEF1A2	0.999529474	3.32E-07
RP11-34P13.14	EEF1A2	0.975578287	0.000887347
RP11-93O14.2	EEF1A2	0.983206813	0.000420649
RP11-485G7.6	EEF1A2	0.971169292	0.001234832
RP11-78A19.3	EEF1A2	0.983921333	0.000385707
Z69720.3	EEF1A2	0.987117906	0.000247854
CTA-315H11.2	EFCAB4A	-0.923504328	0.008553571
RP11-326C3.2	EFCAB4A	0.927946553	0.007600509
RP11-160E2.19	EFCAB4A	0.978453072	0.000691403
AC011558.5	EFCAB4A	0.982800597	0.000441185
AC024028.1	EFEMP1	0.964355341	0.001883169
RP11-498J9.2	EFEMP1	1	0
RP11-34P13.14	EFEMP1	0.978552256	0.000685076
RP11-93O14.2	EFEMP1	0.982998398	0.000431125
RP11-485G7.6	EFEMP1	0.965304842	0.001784749
RP11-78A19.3	EFEMP1	0.983256999	0.000418145

Z69720.3	EFEMP1	0.986539728	0.000270549
AC011558.5	EFEMP2	0.92123663	0.009061192
AC024028.1	EFS	0.960790262	0.002275965
RP11-498J9.2	EFS	0.999590321	2.52E-07
RP11-34P13.14	EFS	0.977852616	0.000730328
RP11-93O14.2	EFS	0.985827335	0.000299873
RP11-485G7.6	EFS	0.96899061	0.001427464
RP11-78A19.3	EFS	0.987298505	0.000240967
Z69720.3	EFS	0.98474951	0.000347093
CTA-315H11.2	EGF	-0.958180218	0.002586772
RP11-66D17.5	EGF	0.933975727	0.0063949
RP11-126K1.8	EGF	0.964544587	0.001863344
RP3-438O4.4	EGF	0.984892782	0.000340618
NUP50-AS1	EGF	0.97546628	0.000895472
PSMD5-AS1	EGF	0.987991579	0.000215437
TOPORS-AS1	EGF	0.975170583	0.000917096
AC087294.2	EGF	0.995262339	3.36E-05
AP001062.8	EGF	0.984522206	0.000357489
CCDC144NL-AS1	ANO7L1	-0.819675919	0.045843383
RP11-156P1.3	ANO7L1	-0.830053365	0.040868601
CTA-315H11.2	ANO7L1	-0.888518982	0.017949282
RP11-455F5.3	EGF	0.997130903	1.23E-05
RP11-326C3.2	EGF	0.996270032	2.08E-05
AP006621.8	EGF	0.991049141	0.000119818
JHDM1D-AS1	EGF	0.997854243	6.90E-06
RP11-20I23.6	EGF	0.997933351	6.40E-06
TOPORS-AS1	ANO7L1	0.915821727	0.01033073
RP11-160E2.19	EGF	0.96265338	0.00206611
AC005786.7	EGF	0.988774306	0.000188317
AC005944.2	EGF	0.966907859	0.001624515
CTB-191K22.5	EGF	0.96747519	0.001569591
RP11-20I23.8	EGF	0.998457361	3.57E-06
CDC37L1-AS1	EGF	0.98782816	0.000221329
RP5-1142A6.10	EGF	0.989657618	0.000159894
RP11-160E2.19	ANO7L1	0.865015016	0.026101642
RP11-556I13.1	EGF	0.997848988	6.94E-06
AC024028.1	EGR2	0.963608665	0.001962397
RP11-498J9.2	EGR2	0.999956201	2.88E-09
RMRP	ANO7L1	0.819245298	0.046055561
RP11-34P13.14	EGR2	0.980189887	0.000584774
RP11-93O14.2	EGR2	0.983965327	0.000383605
LL21NC02-21A1.1	ANO7L1	0.913446293	0.010913106
RP11-485G7.6	EGR2	0.964585805	0.00185904
RP11-78A19.3	EGR2	0.983879401	0.000387716
Z69720.3	EGR2	0.987601685	0.000229624
AC024028.1	EGR3	0.963905248	0.001930734
RP3-438O4.4	SEC14L4	0.894608065	0.016075872
NUP50-AS1	SEC14L4	0.916523186	0.010161719
PSMD5-AS1	SEC14L4	0.827162611	0.042227579
TOPORS-AS1	SEC14L4	0.86141959	0.027476109
AC087294.2	SEC14L4	0.882613894	0.019860486
AP001062.8	SEC14L4	0.913135014	0.010990568
RP11-455F5.3	SEC14L4	0.87402435	0.022805188
AP006621.8	SEC14L4	0.818791656	0.046279575
JHDM1D-AS1	SEC14L4	0.866028676	0.025720194
RP11-20I23.6	SEC14L4	0.842002735	0.03547265
AC005786.7	SEC14L4	0.864844592	0.026166035
AC005944.2	SEC14L4	0.840923427	0.035945289
RP11-498J9.2	EGR3	0.999988318	2.05E-10
RMRP	SEC14L4	0.882194113	0.019999872
RP11-20I23.8	SEC14L4	0.862547476	0.027041336
CDC37L1-AS1	SEC14L4	0.878183938	0.021354906
LL21NC02-21A1.1	SEC14L4	0.908621861	0.012143444

RP5-1142A6.10	SEC14L4	0.819818759	0.045773102
RP11-556I13.1	SEC14L4	0.8657549	0.025822955
RP11-156P1.3	PAQR9	-0.85909446	0.028382761
RP11-34P13.14	EGR3	0.979338288	0.000635949
RP11-93O14.2	EGR3	0.983401483	0.00041098
RP3-438O4.4	PAQR9	0.869783186	0.024330623
NUP50-AS1	PAQR9	0.914212911	0.010723465
PSMD5-AS1	PAQR9	0.864731362	0.026208861
TOPORS-AS1	PAQR9	0.828255939	0.04171115
AC087294.2	PAQR9	0.880749522	0.020483104
AP001062.8	PAQR9	0.913519505	0.010894926
RP11-455F5.3	PAQR9	0.87987939	0.020776834
RP11-326C3.2	PAQR9	0.813461098	0.048949668
AP006621.8	PAQR9	0.855121264	0.029964281
JHDM1D-AS1	PAQR9	0.863585069	0.026644275
RP11-20I23.6	PAQR9	0.843623629	0.034768374
AC005786.7	PAQR9	0.853080157	0.030792495
AC005944.2	PAQR9	0.873456859	0.023006572
RP11-485G7.6	EGR3	0.964957548	0.001820445
RMRP	PAQR9	0.874221432	0.022735448
RP11-20I23.8	PAQR9	0.863434165	0.026701849
CDC37L1-AS1	PAQR9	0.856627526	0.029359941
LL21NC02-21A1.1	PAQR9	0.894225743	0.016190579
RP5-1142A6.10	PAQR9	0.819571454	0.045894813
RP11-556I13.1	PAQR9	0.863092961	0.026832245
RP11-118G23.2	SNHG9	-0.899293971	0.014701891
CTC-1337H24.3	SNHG9	0.834308716	0.038905991
RP11-66D17.5	SNHG9	0.8915892	0.016992282
RP11-126K1.8	SNHG9	0.856702412	0.029330048
NUP50-AS1	SNHG9	0.834996441	0.038593054
AP001062.8	SNHG9	0.813114843	0.049125511
CTB-191K22.5	SNHG9	0.85678197	0.029298305
RP11-78A19.3	EGR3	0.983408676	0.000410624
CCDC144NL-AS1	RN7SK	-0.865444146	0.025939831
Z69720.3	EGR3	0.987201165	0.000244667
AC024028.1	EGR4	0.963881342	0.001933277
RP11-498J9.2	EGR4	0.999990607	1.32E-10
RP11-34P13.14	EGR4	0.978833948	0.000667261
RP11-93O14.2	EGR4	0.98309525	0.00042624
RP11-485G7.6	EGR4	0.965177558	0.001797791
RP11-78A19.3	EGR4	0.983033018	0.000429375
Z69720.3	EGR4	0.987068311	0.000249762
RP11-118G23.2	EHBP1	0.938298442	0.005593172
RP11-66D17.5	EHBP1	-0.944904599	0.004469634
LL21NC02-21A1.1	EHBP1	-0.936396785	0.005939404
RP11-66D17.5	EHBP1L1	0.941552063	0.005024408
RP11-126K1.8	EHBP1L1	0.954411342	0.003070115
NUP50-AS1	EHBP1L1	0.92899403	0.007383771
AP001062.8	EHBP1L1	0.919982582	0.009348013
CTB-191K22.5	EHBP1L1	0.937600794	0.005719011
LL21NC02-21A1.1	EHBP1L1	0.925182256	0.008187139
RP11-118G23.2	EHD2	0.92124695	0.009058849
RP11-160E2.19	EID2B	-0.926827485	0.007835435
AC011558.5	EID2B	-0.963953443	0.001925613
LL21NC02-21A1.1	RN7SK	0.824898846	0.043306284
AC011558.5	EIF1AY	-0.947851666	0.004008266
CTA-315H11.2	EIF2C2	-0.937162602	0.00579875
RP11-126K1.8	RMRP	0.82969702	0.041035
RP11-66D17.5	EIF2C2	0.944288555	0.00456919
CCDC144NL-AS1	RNU4-1	-0.860480817	0.027840491
RP11-126K1.8	RNU4-1	0.879436783	0.020927011
RP3-438O4.4	RNU4-1	0.853381131	0.0306697
NUP50-AS1	RNU4-1	0.841783506	0.035568414

PSMD5-AS1	RNU4-1	0.820655596	0.045362369
TOPORS-AS1	RNU4-1	0.819840673	0.045762324
AC087294.2	RNU4-1	0.858392755	0.02865912
AP001062.8	RNU4-1	0.863777164	0.026571071
RP11-455F5.3	RNU4-1	0.861302762	0.027521331
RP11-326C3.2	RNU4-1	0.82433686	0.043576042
AP006621.8	RNU4-1	0.828825717	0.041443195
JHDM1D-AS1	RNU4-1	0.857440044	0.029036364
RP11-20I23.6	RNU4-1	0.828466093	0.041612225
AC005786.7	RNU4-1	0.81740277	0.046968567
CTB-191K22.5	RNU4-1	0.82848776	0.041602032
RP11-126K1.8	EIF2C2	0.955299859	0.002952496
RP11-20I23.8	RNU4-1	0.852065283	0.031208269
CDC37L1-AS1	RNU4-1	0.841750596	0.035582801
RP11-556I13.1	RNU4-1	0.857276007	0.029101554
RP3-438O4.4	EIF2C2	0.994564082	4.42E-05
NUP50-AS1	EIF2C2	0.973291678	0.001060476
PSMD5-AS1	EIF2C2	0.965459086	0.001769007
TOPORS-AS1	EIF2C2	0.978527019	0.000686683
AC087294.2	EIF2C2	0.992282861	8.91E-05
AP001062.8	EIF2C2	0.981662354	0.000501321
RP11-455F5.3	EIF2C2	0.990068297	0.000147468
RP11-326C3.2	EIF2C2	0.978639818	0.000679513
AP006621.8	EIF2C2	0.968161941	0.001504357
JHDM1D-AS1	EIF2C2	0.99507229	3.64E-05
RP11-20I23.6	EIF2C2	0.990309507	0.000140403
RP11-160E2.19	EIF2C2	0.931509228	0.006875834
AC005786.7	EIF2C2	0.987275952	0.000241822
AC005944.2	EIF2C2	0.949426113	0.0037719
CTB-191K22.5	EIF2C2	0.966959818	0.001619446
RP11-20I23.8	EIF2C2	0.993823104	5.71E-05
CDC37L1-AS1	EIF2C2	0.998090653	5.46E-06
RP5-1142A6.10	EIF2C2	0.979243873	0.000641754
RP11-556I13.1	EIF2C2	0.995171914	3.49E-05
CCDC144NL-AS1	EIF4A1P10	0.95737382	0.002686761
CTA-315H11.2	EIF4E3	-0.93302401	0.006578455
PSMD5-AS1	EIF4E3	0.91802163	0.009805214
LA16c-359F1.1	FAT1	-0.811954582	0.049716875
RP11-66D17.5	FAT1	0.900212823	0.014439407
RP11-126K1.8	FAT1	0.833406033	0.039318538
RP3-438O4.4	FAT1	0.894509244	0.016105483
NUP50-AS1	FAT1	0.865568495	0.025893033
RP11-326C3.2	EIF4E3	0.935792874	0.006051484
TOPORS-AS1	FAT1	0.856426944	0.029440082
AC087294.2	FAT1	0.855465198	0.029825775
AP001062.8	FAT1	0.861544226	0.027427903
RP11-455F5.3	FAT1	0.839176895	0.036716336
JHDM1D-AS1	FAT1	0.850292666	0.031940787
RP11-20I23.6	FAT1	0.832025757	0.039953294
AC005786.7	FAT1	0.858191002	0.028738813
CTB-191K22.5	FAT1	0.873161523	0.02311171
RP11-20I23.8	FAT1	0.845134786	0.034117767
CDC37L1-AS1	FAT1	0.89607382	0.015639741
LL21NC02-21A1.1	FAT1	0.882790815	0.01980188
RP5-1142A6.10	FAT1	0.815619065	0.047860356
RP11-556I13.1	FAT1	0.850529119	0.031842611
AP006621.8	EIF4E3	0.925866742	0.008039901
RP11-160E2.19	EIF4E3	0.983108153	0.000425592
AC011558.5	EIF4E3	0.978265673	0.000703438
CTA-315H11.2	ELF3	-0.956640517	0.002779308
RP11-66D17.5	ELF3	0.93781091	0.005680967
RP11-126K1.8	ELF3	0.973804584	0.001020312
RP3-438O4.4	ELF3	0.985387841	0.000318713

NUP50-AS1	ELF3	0.978153019	0.000710722
PSMD5-AS1	ELF3	0.987250437	0.000242791
TOPORS-AS1	ELF3	0.971051842	0.001244865
AC087294.2	ELF3	0.996152795	2.22E-05
AP001062.8	ELF3	0.988272003	0.000205512
RP11-455F5.3	ELF3	0.998282706	4.42E-06
RP11-326C3.2	ELF3	0.992187232	9.13E-05
AP006621.8	ELF3	0.990212791	0.000143215
JHDM1D-AS1	ELF3	0.997788403	7.33E-06
RP11-20I23.6	ELF3	0.994595562	4.37E-05
RP11-160E2.19	ELF3	0.95098315	0.003545092
AC005786.7	ELF3	0.985249331	0.000324769
AC005944.2	ELF3	0.964252017	0.001894036
CTB-191K22.5	ELF3	0.970719717	0.001273451
RP11-20I23.8	ELF3	0.997967502	6.19E-06
CDC37L1-AS1	ELF3	0.986944444	0.000254559
RP5-1142A6.10	ELF3	0.983078396	0.000427088
RP11-556I13.1	ELF3	0.997745371	7.62E-06
RP11-66D17.5	ELL3	-0.940649261	0.005179234
TOPORS-AS1	ELL3	-0.921287479	0.009049653
AC024028.1	ELN	0.964355341	0.001883169
RP11-498J9.2	ELN	1	0
RP11-34P13.14	ELN	0.978552256	0.000685076
RP11-93O14.2	ELN	0.982998398	0.000431125
RP11-485G7.6	ELN	0.965304842	0.001784749
RP11-78A19.3	ELN	0.983256999	0.000418145
Z69720.3	ELN	0.986539728	0.000270549
LA16c-359F1.1	ELOVL5	0.95707693	0.002724044
AC024028.1	ELOVL7	0.961828783	0.002157754
RP11-498J9.2	ELOVL7	0.999830523	4.31E-08
RP11-34P13.14	ELOVL7	0.978908604	0.000662579
RP11-93O14.2	ELOVL7	0.984997562	0.000335921
RP11-485G7.6	ELOVL7	0.965902516	0.001724136
RP11-78A19.3	ELOVL7	0.984192447	0.000372843
Z69720.3	ELOVL7	0.986601599	0.000268073
AC011558.5	EME1	-0.95144149	0.003479645
CCDC144NL-AS1	MEOX1	-0.869853324	0.024305014
CTA-315H11.2	EML3	-0.936262824	0.005964178
NUP50-AS1	EML3	0.919822916	0.009384843
PSMD5-AS1	EML3	0.97439351	0.000975143
TOPORS-AS1	EML3	0.921705922	0.008954974
AC087294.2	EML3	0.938317176	0.005589812
AP001062.8	EML3	0.922346033	0.008811076
RP11-455F5.3	EML3	0.945494429	0.004375322
RP11-326C3.2	EML3	0.975983894	0.000858234
AP006621.8	EML3	0.975169926	0.000917145
JHDM1D-AS1	EML3	0.941313299	0.005065131
RP11-20I23.6	EML3	0.962065542	0.00213124
RP11-160E2.19	EML3	0.994635163	4.31E-05
AC005786.7	EML3	0.946632216	0.004196182
AC005944.2	EML3	0.963140873	0.002012855
RP11-20I23.8	EML3	0.947345525	0.004085748
RP5-1142A6.10	EML3	0.971139274	0.001237393
RP11-556I13.1	EML3	0.941212056	0.005082447
AC011558.5	EML3	0.939943449	0.005301878
CTA-315H11.2	EML4	-0.956510214	0.002795915
RP11-326C3.2	EML4	0.938602401	0.005538774
LL21NC02-21A1.1	MEOX1	0.812691994	0.049340649
RP11-160E2.19	EML4	0.97020102	0.001318738
AC011558.5	EML4	0.953489659	0.003194512
AC011558.5	MEOX1	0.814806186	0.04826935
AC024028.1	EMP1	0.95419681	0.003098852
RP11-498J9.2	EMP1	0.998418471	3.75E-06

RP11-34P13.14	EMP1	0.967486313	0.001568524
RP11-93O14.2	EMP1	0.98035708	0.000574977
RP11-485G7.6	EMP1	0.974798336	0.000944683
RP11-78A19.3	EMP1	0.979658791	0.000616439
Z69720.3	EMP1	0.983474738	0.00040737
CTA-315H11.2	EMR1	-0.95719692	0.002708946
PSMD5-AS1	EMR1	0.95602841	0.002857741
RP11-455F5.3	EMR1	0.927490636	0.007695799
RP11-326C3.2	EMR1	0.972370801	0.001134513
AP006621.8	EMR1	0.963086283	0.002018784
JHDM1D-AS1	EMR1	0.925929128	0.008026546
RP11-20I23.6	EMR1	0.943314957	0.004728721
RP11-160E2.19	EMR1	0.996236155	2.12E-05
AC005944.2	EMR1	0.920106203	0.009319546
RP11-20I23.8	EMR1	0.93080968	0.007015333
RP5-1142A6.10	EMR1	0.946779347	0.004173285
RP11-556I13.1	EMR1	0.925894548	0.008033948
AC011558.5	EMR1	0.957926124	0.002618077
AC024028.1	EMR2	0.955978414	0.002864195
RP11-34P13.14	EMR2	0.959020885	0.002484524
CCDC144NL-AS1	PDZD4	-0.866352819	0.025598779
RP11-473M20.11	EMR2	0.931139306	0.006949431
CTA-315H11.2	EMR3	-0.965929751	0.001721399
PSMD5-AS1	EMR3	0.969542895	0.001377326
AC087294.2	EMR3	0.939176561	0.005436728
RP11-455F5.3	EMR3	0.948402621	0.003924751
RP11-326C3.2	EMR3	0.984901355	0.000340233
AP006621.8	EMR3	0.9760505	0.000853499
JHDM1D-AS1	EMR3	0.947415021	0.004075067
RP11-20I23.6	EMR3	0.961332831	0.002213818
RP11-160E2.19	EMR3	0.997581464	8.77E-06
AC005786.7	EMR3	0.936727037	0.005878546
AC005944.2	EMR3	0.935570204	0.006093067
RP11-20I23.8	EMR3	0.951431188	0.003481109
CDC37L1-AS1	EMR3	0.917815874	0.009853801
RP5-1142A6.10	EMR3	0.96225569	0.002110064
RP11-556I13.1	EMR3	0.947389259	0.004079025
AC011558.5	EMR3	0.942585086	0.004850075
AC024028.1	ENO2	0.920773814	0.00916654
RP11-498J9.2	ENO2	0.98780999	0.000221989
RP11-34P13.14	ENO2	0.952585277	0.003318936
LL21NC02-21A1.1	PDZD4	0.815513436	0.047913411
RP11-93O14.2	ENO2	0.977656356	0.00074328
RP11-485G7.6	ENO2	0.988588972	0.000194574
RP11-78A19.3	ENO2	0.980626753	0.000559348
LA16c-359F1.1	ENO2	0.929374873	0.007305727
Z69720.3	ENO2	0.976759934	0.000803875
RP11-118G23.2	ENPP3	0.924041561	0.008435399
CTD-2541M15.3	ENPP4	0.920454918	0.009239473
CTD-2139B15.2	ENTPD4	-0.97241678	0.001130758
RP11-498J9.2	EPAS1	0.939929265	0.005304357
RP11-34P13.14	EPAS1	0.970765628	0.00126948
RP11-93O14.2	EPAS1	0.961066748	0.00224419
RP11-78A19.3	EPAS1	0.940226545	0.005252518
RP11-680G24.6	EPAS1	0.937218704	0.005788511
Z69720.3	EPAS1	0.966637458	0.001651022
CTA-315H11.2	EPB41	-0.944438285	0.004544894
RP11-66D17.5	EPB41	0.942540918	0.004857467
RP11-126K1.8	EPB41	0.974178428	0.000991522
RP3-438O4.4	EPB41	0.991332134	0.000112372
NUP50-AS1	EPB41	0.976954879	0.000790497
PSMD5-AS1	EPB41	0.972293561	0.001140836
TOPORS-AS1	EPB41	0.970486125	0.001293749

AC087294.2	EPB41	0.994974153	3.78E-05
AP001062.8	EPB41	0.98851802	0.000196997
RP11-455F5.3	EPB41	0.995146508	3.53E-05
CCDC144NL-AS1	TMC5	-0.843977264	0.034615603
RP11-326C3.2	EPB41	0.979728414	0.000612241
AP006621.8	EPB41	0.97579436	0.000871778
JHDM1D-AS1	EPB41	0.996529539	1.80E-05
RP11-20I23.6	EPB41	0.987441356	0.000235589
RP11-160E2.19	EPB41	0.923874657	0.008472026
AC005786.7	EPB41	0.980695427	0.000555403
AC005944.2	EPB41	0.947680266	0.004034423
CTB-191K22.5	EPB41	0.969718373	0.001361582
RP11-20I23.8	EPB41	0.995047341	3.67E-05
CDC37L1-AS1	EPB41	0.991813614	0.000100251
RP5-1142A6.10	EPB41	0.971321353	0.001221904
RP11-556I13.1	EPB41	0.99652696	1.81E-05
AC024028.1	EPB41L3	0.924040354	0.008435663
RP11-498J9.2	EPB41L3	0.984029381	0.000380554
RP11-160E2.19	TMC5	0.913712959	0.010846957
RP11-34P13.14	EPB41L3	0.937114282	0.005807576
RP11-93O14.2	EPB41L3	0.95552135	0.002923528
RP11-485G7.6	EPB41L3	0.980623058	0.000559561
RMRP	TMC5	0.821286361	0.045053919
RP11-78A19.3	EPB41L3	0.954487595	0.003059932
Z69720.3	EPB41L3	0.975838939	0.000868583
LL21NC02-21A1.1	TMC5	0.867898389	0.025023612
RP11-66D17.5	EPB42	0.977540665	0.000750968
RP11-126K1.8	EPB42	0.995685943	2.79E-05
CCDC144NL-AS1	EPPK1	-0.866882928	0.025400805
RP3-438O4.4	EPB42	0.987450069	0.000235263
NUP50-AS1	EPB42	0.995124018	3.56E-05
PSMD5-AS1	EPB42	0.973613173	0.001035211
TOPORS-AS1	EPB42	0.966503683	0.001664213
AC087294.2	EPB42	0.992753343	7.86E-05
AP001062.8	EPB42	0.998652264	2.72E-06
RP11-455F5.3	EPB42	0.991387579	0.000110941
RP11-326C3.2	EPB42	0.961185478	0.002230612
AP006621.8	EPB42	0.971123983	0.001238698
JHDM1D-AS1	EPB42	0.987347736	0.000239107
RP11-20I23.6	EPB42	0.979713946	0.000613112
AC005786.7	EPB42	0.981820019	0.000492763
AC005944.2	EPB42	0.968760747	0.001448593
CTB-191K22.5	EPB42	0.993024394	7.28E-05
RP11-20I23.8	EPB42	0.987232905	0.000243458
CDC37L1-AS1	EPB42	0.984126653	0.000375945
RP5-1142A6.10	EPB42	0.966396314	0.001674839
RP11-556I13.1	EPB42	0.987201547	0.000244652
CTA-315H11.2	EPB49	-0.946729962	0.004180963
RP11-66D17.5	EPB49	0.951907722	0.003413685
LL21NC02-21A1.1	EPPK1	0.827886227	0.04188545
RP11-126K1.8	EPB49	0.976246923	0.000839612
RP3-438O4.4	EPB49	0.992397787	8.65E-05
RP3-337H4.8	PKDCC	0.871887353	0.023567929
NUP50-AS1	EPB49	0.985249185	0.000324775
PSMD5-AS1	EPB49	0.985278131	0.000323505
CCDC144NL-AS1	PRSS33	-0.86599555	0.025732617
TOPORS-AS1	EPB49	0.978485934	0.000689304
AC087294.2	EPB49	0.999265231	8.10E-07
AP001062.8	EPB49	0.992874916	7.60E-05
RP11-455F5.3	EPB49	0.999595172	2.46E-07
RP11-326C3.2	EPB49	0.989086455	0.000178008
AP006621.8	EPB49	0.986883359	0.000256941
JHDM1D-AS1	EPB49	0.999817789	4.98E-08

RP11-20I23.6	EPB49	0.996897802	1.44E-05
RP11-160E2.19	EPB49	0.94513004	0.00443347
AC005786.7	EPB49	0.99166893	0.000103821
AC005944.2	EPB49	0.968988695	0.00142764
CTB-191K22.5	EPB49	0.978995444	0.000657154
RP11-20I23.8	EPB49	0.999881375	2.11E-08
CDC37L1-AS1	EPB49	0.993754458	5.84E-05
RP5-1142A6.10	EPB49	0.986647067	0.000266261
RP11-556I13.1	EPB49	0.999793618	6.39E-08
AC011558.5	EPCAM	-0.929231325	0.007335096
CTA-315H11.2	EPHA1	-0.954298689	0.003085189
RP11-66D17.5	EPHA1	0.941899209	0.004965487
RP11-126K1.8	EPHA1	0.969363283	0.001393535
LL21NC02-21A1.1	PRSS33	0.817985796	0.046678766
RP3-438O4.4	EPHA1	0.988335391	0.000203301
NUP50-AS1	EPHA1	0.979903405	0.000601751
CCDC144NL-AS1	RFPL2	-0.869996721	0.024252696
PSMD5-AS1	EPHA1	0.987640094	0.000228207
TOPORS-AS1	EPHA1	0.976887794	0.000795088
AC087294.2	EPHA1	0.997301993	1.09E-05
AP001062.8	EPHA1	0.988233953	0.000206845
RP11-455F5.3	EPHA1	0.998523526	3.27E-06
RP11-326C3.2	EPHA1	0.99398008	5.43E-05
AP006621.8	EPHA1	0.990011297	0.000149163
JHDM1D-AS1	EPHA1	0.999080704	1.27E-06
RP11-20I23.6	EPHA1	0.99817224	5.01E-06
RP11-160E2.19	EPHA1	0.956778012	0.002761838
AC005786.7	EPHA1	0.990643743	0.0001309
AC005944.2	EPHA1	0.968969595	0.00142939
CTB-191K22.5	EPHA1	0.972805969	0.001099218
RP11-20I23.8	EPHA1	0.999524654	3.39E-07
CDC37L1-AS1	EPHA1	0.990828474	0.00012579
RP5-1142A6.10	EPHA1	0.989271543	0.000172032
RP11-556I13.1	EPHA1	0.999068954	1.30E-06
CTA-315H11.2	EPHA4	-0.972068491	0.001159358
RP11-126K1.8	EPHA4	0.941595354	0.005017042
RP3-438O4.4	EPHA4	0.95804646	0.002603228
LL21NC02-21A1.1	RFPL2	0.813941906	0.048705978
NUP50-AS1	EPHA4	0.952285609	0.00336068
PSMD5-AS1	EPHA4	0.990274421	0.00014142
AC011558.5	RFPL2	0.816099055	0.047619612
CCDC144NL-AS1	ITI13	-0.873283247	0.023068349
TOPORS-AS1	EPHA4	0.953444242	0.003200705
AC087294.2	EPHA4	0.978286406	0.000702101
AP001062.8	EPHA4	0.962553714	0.002077083
RP11-455F5.3	EPHA4	0.98371184	0.000395796
RP11-326C3.2	EPHA4	0.999248094	8.48E-07
AP006621.8	EPHA4	0.9943241	4.82E-05
JHDM1D-AS1	EPHA4	0.983101898	0.000425906
RP11-20I23.6	EPHA4	0.989473461	0.000165629
RP11-160E2.19	EPHA4	0.987162403	0.000246148
AC005786.7	EPHA4	0.973010908	0.001082787
AC005944.2	EPHA4	0.9647744	0.00183941
CTB-191K22.5	EPHA4	0.943763611	0.004654873
RP11-20I23.8	EPHA4	0.985498646	0.000313909
CDC37L1-AS1	EPHA4	0.964088318	0.001911317
RP5-1142A6.10	EPHA4	0.984913309	0.000339695
RP11-556I13.1	EPHA4	0.983071352	0.000427443
CTA-315H11.2	EPHB1	-0.95842684	0.002556565
RP11-126K1.8	EPHB1	0.937904994	0.005663972
RP3-438O4.4	EPHB1	0.963718029	0.001950692
NUP50-AS1	EPHB1	0.95555635	0.002918964
PSMD5-AS1	EPHB1	0.985545254	0.000311899

TOPORS-AS1	EPHB1	0.966764562	0.001638536
AC011558.5	ITIH3	0.821617805	0.044892232
CCDC144NL-AS1	EDIL3	-0.871542603	0.023692097
AC087294.2	EPHB1	0.980231295	0.00058234
AP001062.8	EPHB1	0.96391879	0.001929294
RP11-455F5.3	EPHB1	0.984081149	0.000378098
RP11-326C3.2	EPHB1	0.998917743	1.76E-06
AP006621.8	EPHB1	0.989705714	0.000158413
JHDM1D-AS1	EPHB1	0.984779362	0.000345739
RP11-20I23.6	EPHB1	0.992742969	7.88E-05
RP11-160E2.19	EPHB1	0.985406617	0.000317896
AC005786.7	EPHB1	0.979984453	0.000596924
AC005944.2	EPHB1	0.96233581	0.002101172
CTB-191K22.5	EPHB1	0.944479888	0.004538154
RP11-20I23.8	EPHB1	0.986891874	0.000256608
CDC37L1-AS1	EPHB1	0.968145457	0.001505906
RP5-1142A6.10	EPHB1	0.991429904	0.000109855
RP11-556I13.1	EPHB1	0.984788297	0.000345334
RP11-66D17.5	EPHB6	0.92008194	0.00932513
CTA-315H11.2	EPHX2	-0.963479926	0.00197622
RP11-126K1.8	EPHX2	0.937364968	0.005761858
RP3-438O4.4	EPHX2	0.962099829	0.002127414
NUP50-AS1	EPHX2	0.950674353	0.003589524
PSMD5-AS1	EPHX2	0.982830276	0.000439668
TOPORS-AS1	EPHX2	0.962678879	0.002063307
AC011558.5	EDIL3	0.818142922	0.046600807
AC087294.2	EPHX2	0.9790122	0.000656109
AP001062.8	EPHX2	0.961809085	0.002159967
RP11-455F5.3	EPHX2	0.98360216	0.000401129
RP11-326C3.2	EPHX2	0.998676476	2.63E-06
AP006621.8	EPHX2	0.988489373	0.000197979
JHDM1D-AS1	EPHX2	0.984527111	0.000357263
RP11-20I23.6	EPHX2	0.989954989	0.000150847
RP11-160E2.19	EPHX2	0.981558201	0.000507014
AC005786.7	EPHX2	0.974720057	0.000950535
AC005944.2	EPHX2	0.952878042	0.003278402
CTB-191K22.5	EPHX2	0.938364361	0.005581353
RP11-20I23.8	EPHX2	0.986042948	0.00029084
CDC37L1-AS1	EPHX2	0.966163192	0.001698024
RP5-1142A6.10	EPHX2	0.98582953	0.000299781
RP11-556I13.1	EPHX2	0.984538716	0.000356729
AC011558.5	EPN3	-0.944033758	0.004610681
CTA-315H11.2	EPPK1	-0.946248765	0.004256144
RP11-66D17.5	EPPK1	0.954116393	0.003109659
RP11-126K1.8	EPPK1	0.978028769	0.000718799
RP3-438O4.4	EPPK1	0.992746377	7.87E-05
NUP50-AS1	EPPK1	0.98624047	0.000282685
PSMD5-AS1	EPPK1	0.985241853	0.000325097
CCDC144NL-AS1	LILRA3	-0.862759621	0.026959926
TOPORS-AS1	EPPK1	0.977362293	0.000762898
AC087294.2	EPPK1	0.999432531	4.83E-07
AP001062.8	EPPK1	0.993745657	5.86E-05
RP11-455F5.3	EPPK1	0.999661633	1.72E-07
RP11-326C3.2	EPPK1	0.987814017	0.000221842
AP006621.8	EPPK1	0.986546296	0.000270286
JHDM1D-AS1	EPPK1	0.99969545	1.39E-07
RP11-20I23.6	EPPK1	0.996262	2.09E-05
RP11-160E2.19	EPPK1	0.942716453	0.004828122
AC005786.7	EPPK1	0.991308415	0.000112987
AC005944.2	EPPK1	0.969766809	0.001357251
CTB-191K22.5	EPPK1	0.980642105	0.000558465
RP11-20I23.8	EPPK1	0.999734901	1.05E-07
CDC37L1-AS1	EPPK1	0.994132756	5.15E-05

RP5-1142A6.10	EPPK1	0.985465741	0.000315332
RP11-556I13.1	EPPK1	0.999664999	1.68E-07
RP11-77G23.2	EPS8	0.930755046	0.007026285
AC024028.1	EPS8L2	0.968654225	0.001458437
RP11-498J9.2	EPS8L2	0.996952633	1.39E-05
RP11-34P13.14	EPS8L2	0.970170267	0.001321448
LL21NC02-21A1.1	LILRA3	0.819981025	0.045693325
RP11-93O14.2	EPS8L2	0.967524181	0.001564892
RP11-485G7.6	EPS8L2	0.960836676	0.002270615
RP11-473M20.11	EPS8L2	0.924737259	0.008283558
RP11-78A19.3	EPS8L2	0.970383162	0.001302746
Z69720.3	EPS8L2	0.985047721	0.000333685
AC024028.1	EPX	0.995324562	3.27E-05
RP11-498J9.2	EPX	0.98414967	0.000374858
RP11-34P13.14	EPX	0.976787427	0.000801982
RP11-93O14.2	EPX	0.951422338	0.003482367
RP11-473M20.11	EPX	0.968126518	0.001507688
RP11-78A19.3	EPX	0.955590713	0.002914486
Z69720.3	EPX	0.966189158	0.001695434
LLNLR-284B4.1	ERCC6L	-0.930068287	0.007164668
AC011558.5	ERCC6L	-0.941327798	0.005062654
AC024028.1	EREG	0.926504242	0.007903941
RP11-498J9.2	EREG	0.980830428	0.000547687
RP11-34P13.14	EREG	0.991598428	0.000105583
RP11-93O14.2	EREG	0.99112782	0.000117724
RP11-485G7.6	EREG	0.937364458	0.00576195
RP11-78A19.3	EREG	0.982406984	0.000461549
RP11-680G24.6	EREG	0.925432696	0.008133117
LA16c-359F1.1	EREG	0.935206629	0.006161264
Z69720.3	EREG	0.985675799	0.000306305
AC024028.1	ERG	0.932814333	0.006619236
CCDC144NL-AS1	ARHGEF37	-0.825097631	0.043211053
CTA-315H11.2	ARHGEF37	-0.835588416	0.038324635
RP11-498J9.2	ERG	0.97840648	0.000694386
RP11-34P13.14	ERG	0.988095582	0.000211729
RP11-93O14.2	ERG	0.975205352	0.00091454
RP11-485G7.6	ERG	0.922706494	0.008730542
PSMD5-AS1	ARHGEF37	0.890063364	0.017464745
TOPORS-AS1	ARHGEF37	0.884589234	0.019210852
RP11-78A19.3	ERG	0.961384192	0.002207979
Z69720.3	ERG	0.99010293	0.000146443
LLNLR-284B4.1	ERI1	-0.977457338	0.00075653
RP11-326C3.2	ARHGEF37	0.872196691	0.023456779
AP006621.8	ARHGEF37	0.889587876	0.017613248
CTD-2541M15.3	ERI1	0.91831264	0.009736695
RP11-20I23.6	ARHGEF37	0.893761373	0.01633043
AC005786.7	ARHGEF37	0.894948794	0.015973974
AC005944.2	ARHGEF37	0.870032415	0.024239681
AC024028.1	ERMN	0.970710176	0.001274277
RP11-473M20.11	ERMN	0.994602407	4.36E-05
RP11-20I23.8	ARHGEF37	0.915750178	0.010348045
CDC37L1-AS1	ARHGEF37	0.915948023	0.0103002
LL21NC02-21A1.1	ARHGEF37	0.834156508	0.038975411
RP5-1142A6.10	ARHGEF37	0.864075537	0.026457556
CTA-315H11.2	ERP27	-0.96075232	0.002280342
CCDC144NL-AS1	CTSE	-0.841106419	0.035864948
PSMD5-AS1	ERP27	0.965459346	0.001768981
AC087294.2	ERP27	0.935324884	0.006139042
RP11-455F5.3	ERP27	0.944203252	0.00458306
RP11-326C3.2	ERP27	0.982812839	0.000440559
AP006621.8	ERP27	0.972000882	0.001164951
JHDM1D-AS1	ERP27	0.943891218	0.004633972
RP11-20I23.6	ERP27	0.959468738	0.002430883

RP11-160E2.19	ERP27	0.99863385	2.80E-06
AC005786.7	ERP27	0.935556257	0.006095677
AC005944.2	ERP27	0.932751407	0.006631498
RP11-20I23.8	ERP27	0.948051832	0.003977824
RP5-1142A6.10	ERP27	0.962328078	0.002102029
RP11-556I13.1	ERP27	0.943886591	0.004634729
AC011558.5	ERP27	0.950004283	0.003686874
RP11-160E2.19	CTSE	0.916914674	0.010067981
LLNLR-284B4.1	ESCO2	-0.948002863	0.003985261
CTD-2541M15.3	ESCO2	0.951077041	0.003531636
CTA-315H11.2	ESD	0.940224395	0.005252892
RMRP	CTSE	0.815601459	0.047869197
RP11-160E2.19	ESD	-0.917825151	0.009851607
CTD-2139B15.2	ESPL1	0.920804	0.009159651
LL21NC02-21A1.1	CTSE	0.861454937	0.027462434
AC011558.5	ESPL1	-0.917802784	0.009856895
CTA-315H11.2	ESPN	-0.943687271	0.004667398
RP11-66D17.5	ESPN	0.954652255	0.003038
RP11-126K1.8	ESPN	0.976806516	0.000800668
RP3-438O4.4	ESPN	0.994176053	5.08E-05
NUP50-AS1	ESPN	0.986056439	0.000290279
PSMD5-AS1	ESPN	0.982810952	0.000440656
TOPORS-AS1	ESPN	0.979098919	0.000650717
AC087294.2	ESPN	0.999475131	4.13E-07
AP001062.8	ESPN	0.993569029	6.19E-05
RP11-455F5.3	ESPN	0.999276713	7.85E-07
RP11-326C3.2	ESPN	0.986663428	0.00026561
AP006621.8	ESPN	0.984279136	0.000368776
JHDM1D-AS1	ESPN	0.999846864	3.52E-08
RP11-20I23.6	ESPN	0.996018089	2.38E-05
RP11-160E2.19	ESPN	0.940073868	0.00527911
AC005786.7	ESPN	0.991716322	0.000102645
AC005944.2	ESPN	0.967256591	0.001590644
CTB-191K22.5	ESPN	0.980097861	0.000590201
RP11-20I23.8	ESPN	0.999649002	1.85E-07
CDC37L1-AS1	ESPN	0.995379194	3.20E-05
RP5-1142A6.10	ESPN	0.985160114	0.000328699
RP11-556I13.1	ESPN	0.99983031	4.32E-08
RP11-21J18.1	ESRRG	0.970620487	0.001282054
RP11-165D6.1	ESRRG	0.945029214	0.004449626
CTA-315H11.2	ETS1	-0.968234446	0.001497549
RP11-126K1.8	ETS1	0.946209149	0.004262363
RP3-438O4.4	ETS1	0.965964437	0.001717916
NUP50-AS1	ETS1	0.957883321	0.002623368
PSMD5-AS1	ETS1	0.989208502	0.000174056
TOPORS-AS1	ETS1	0.96187452	0.00215262
AC087294.2	ETS1	0.983301529	0.00041593
AP001062.8	ETS1	0.96810078	0.001510111
RP11-455F5.3	ETS1	0.987768408	0.000223503
RP11-326C3.2	ETS1	0.999989131	1.77E-10
AP006621.8	ETS1	0.993489083	6.35E-05
JHDM1D-AS1	ETS1	0.987875252	0.000219623
RP11-20I23.6	ETS1	0.992824489	7.70E-05
RP11-160E2.19	ETS1	0.982351122	0.000464476
AC005786.7	ETS1	0.97819182	0.000708209
AC005944.2	ETS1	0.963469709	0.001977319
CTB-191K22.5	ETS1	0.94841851	0.003922355
RP11-20I23.8	ETS1	0.989686132	0.000159015
CDC37L1-AS1	ETS1	0.970877019	0.001259872
RP5-1142A6.10	ETS1	0.987730777	0.000224877
RP11-556I13.1	ETS1	0.987862214	0.000220095
CCDC144NL-AS1	ABCC13	-0.865754293	0.025823183
AC024028.1	ETS2	0.942311338	0.004895979

RP11-498J9.2	ETS2	0.987405047	0.00023695
RP11-34P13.14	ETS2	0.986306438	0.000279987
RP11-93O14.2	ETS2	0.983283853	0.000416809
RP11-485G7.6	ETS2	0.939878127	0.0053133
RP11-78A19.3	ETS2	0.972427167	0.00112991
Z69720.3	ETS2	0.989042327	0.000179448
RP11-498J9.2	ETV3	0.936395418	0.005939657
RP11-34P13.14	ETV3	0.964261528	0.001893034
RP11-93O14.2	ETV3	0.976163413	0.000845503
RP11-78A19.3	ETV3	0.96331858	0.001993612
RP11-680G24.6	ETV3	0.97344252	0.001048584
LA16c-359F1.1	ETV3	0.96394912	0.001926072
Z69720.3	ETV3	0.951268151	0.003504326
RP11-156P1.3	ETV5	0.930211084	0.007135786
CTA-315H11.2	EVL	-0.966835188	0.001631618
RP11-126K1.8	EVL	0.932848695	0.006612544
RP3-438O4.4	EVL	0.953948145	0.003132327
NUP50-AS1	EVL	0.94711488	0.004121298
PSMD5-AS1	EVL	0.986508401	0.000271807
LL21NC02-21A1.1	ABCC13	0.820726951	0.045327426
TOPORS-AS1	EVL	0.954721146	0.003028847
AC087294.2	EVL	0.974251027	0.000985979
CCDC144NL-AS1	CA6	-0.874056132	0.022793935
AP001062.8	EVL	0.956880748	0.00274882
RP11-455F5.3	EVL	0.979643793	0.000617345
RP11-326C3.2	EVL	0.998605286	2.92E-06
AP006621.8	EVL	0.991043396	0.000119972
JHDM1D-AS1	EVL	0.979561934	0.000622303
RP11-20I23.6	EVL	0.988007056	0.000214884
RP11-160E2.19	EVL	0.990257286	0.000141918
AC005786.7	EVL	0.971748735	0.001185927
AC005944.2	EVL	0.960528479	0.002306253
CTB-191K22.5	EVL	0.936825565	0.005860449
RP11-20I23.8	EVL	0.982123848	0.000476479
CDC37L1-AS1	EVL	0.959736157	0.002399128
RP5-1142A6.10	EVL	0.985877388	0.000297764
RP11-556I13.1	EVL	0.979550139	0.000623019
AC011558.5	EXO1	-0.971290741	0.001224501
RP5-1033H22.2	EXOC4	0.937410782	0.005753521
RP11-21J18.1	EXOC4	0.932873132	0.006607787
RP11-298J23.8	EXOC4	0.937311842	0.005771532
RP11-165D6.1	EXOC4	0.944678158	0.004506103
RP11-326C3.2	EYA3	-0.937317632	0.005770477
RP11-160E2.19	EYA3	-0.963097078	0.002017611
AC011558.5	EYA3	-0.960175957	0.002347352
AC011558.5	CA6	0.823173282	0.044137051
CCDC144NL-AS1	THEM5	-0.865429087	0.025945501
RP11-160E2.19	EZH2	-0.924132038	0.008415575
AC011558.5	EZH2	-0.98332543	0.000414744
AC024028.1	F2RL1	0.989258693	0.000172444
RP11-498J9.2	F2RL1	0.922740683	0.008722923
RP11-473M20.11	F2RL1	0.999382847	5.71E-07
RP11-34P13.14	F2RL3	0.92292036	0.008682931
Z69720.3	F2RL3	0.924430553	0.008350333
RP3-339A18.6	F3	0.964420352	0.001876347
CTA-315H11.2	F5	-0.961596442	0.00218393
RP11-66D17.5	F5	0.927735197	0.007644612
RP11-126K1.8	F5	0.960932226	0.002259622
RP3-438O4.4	F5	0.980742162	0.000552725
NUP50-AS1	F5	0.971908171	0.001172642
PSMD5-AS1	F5	0.989325446	0.000170311
TOPORS-AS1	F5	0.972354041	0.001135884
AC087294.2	F5	0.993019471	7.29E-05

AP001062.8	F5	0.981232772	0.000525008
RP11-455F5.3	F5	0.995580404	2.93E-05
RP11-326C3.2	F5	0.998003714	5.97E-06
AP006621.8	F5	0.992647452	8.09E-05
LL21NC02-21A1.1	THEM5	0.81838924	0.046478717
JHDM1D-AS1	F5	0.996069299	2.31E-05
RP11-20I23.6	F5	0.997405387	1.01E-05
CCDC144NL-AS1	C2orf55	-0.86331005	0.026749246
RP11-160E2.19	F5	0.968484423	0.001474196
AC005786.7	F5	0.98683023	0.000259022
AC005944.2	F5	0.967150858	0.001600876
CTB-191K22.5	F5	0.963613954	0.00196183
RP11-20I23.8	F5	0.997005595	1.34E-05
CDC37L1-AS1	F5	0.984185003	0.000373193
RP5-1142A6.10	F5	0.989923679	0.000151787
RP11-556I13.1	F5	0.996059962	2.33E-05
RP11-156P1.3	FABP5	0.919871485	0.009373633
RP11-91K8.5	FABP6	0.99600776	2.39E-05
RP11-66D17.5	FADS1	-0.988873016	0.000185026
RP11-126K1.8	FADS1	-0.957789833	0.002634944
RP3-438O4.4	FADS1	-0.983444343	0.000408866
NUP50-AS1	FADS1	-0.98415505	0.000374605
PSMD5-AS1	FADS1	-0.923606927	0.008530941
TOPORS-AS1	FADS1	-0.98018622	0.000584989
AC087294.2	FADS1	-0.970174866	0.001321043
AP001062.8	FADS1	-0.97770385	0.000740136
RP11-455F5.3	FADS1	-0.960891774	0.002264273
RP11-326C3.2	FADS1	-0.919466102	0.009467403
LL21NC02-21A1.1	C2orf55	0.821300878	0.045046831
AP006621.8	FADS1	-0.918363973	0.009724632
JHDM1D-AS1	FADS1	-0.962071901	0.002130531
AC011558.5	C2orf55	0.811701653	0.049846223
CCDC144NL-AS1	TAS2R40	-0.872804796	0.023239009
RP11-20I23.6	FADS1	-0.958412693	0.002558293
AC005786.7	FADS1	-0.978420775	0.00069347
AC005944.2	FADS1	-0.939690598	0.005346157
CTB-191K22.5	FADS1	-0.979448633	0.000629198
RP11-20I23.8	FADS1	-0.960894407	0.00226397
CDC37L1-AS1	FADS1	-0.976534788	0.000819464
RP5-1142A6.10	FADS1	-0.955296289	0.002952964
RP11-556I13.1	FADS1	-0.962074799	0.002130207
CCDC144NL-AS1	FADS2	0.9743929	0.00097519
CTA-315H11.2	FADS2	0.934478629	0.006298932
CTA-315H11.2	FAIM3	-0.96003252	0.002364177
RP11-66D17.5	FAIM3	0.931060974	0.006965064
RP11-126K1.8	FAIM3	0.962674985	0.002063735
RP3-438O4.4	FAIM3	0.982327179	0.000465733
NUP50-AS1	FAIM3	0.973861273	0.00101592
PSMD5-AS1	FAIM3	0.989404209	0.000167811
TOPORS-AS1	FAIM3	0.9735982	0.001036381
AC087294.2	FAIM3	0.994017512	5.36E-05
AP001062.8	FAIM3	0.98280037	0.000441197
RP11-455F5.3	FAIM3	0.996293306	2.06E-05
RP11-326C3.2	FAIM3	0.997452527	9.73E-06
AP006621.8	FAIM3	0.992443236	8.54E-05
AC011558.5	TAS2R40	0.82065882	0.04536079
CCDC144NL-AS1	MDS2	-0.869122951	0.024572319
JHDM1D-AS1	FAIM3	0.996758477	1.57E-05
RP11-20I23.6	FAIM3	0.997887671	6.69E-06
RP11-160E2.19	FAIM3	0.966822699	0.00163284
AC005786.7	FAIM3	0.988035475	0.000213868
AC005944.2	FAIM3	0.968345598	0.001487143
CTB-191K22.5	FAIM3	0.965862855	0.001728126

RP11-20I23.8	FAIM3	0.997655048	8.24E-06
CDC37L1-AS1	FAIM3	0.985611091	0.000309072
RP5-1142A6.10	FAIM3	0.990365702	0.000138782
RP11-556I13.1	FAIM3	0.996748019	1.58E-05
CTA-315H11.2	FAM100B	-0.938580409	0.005542701
RP11-66D17.5	FAM100B	0.96181455	0.002159353
RP11-126K1.8	FAM100B	0.983158493	0.000423066
RP3-438O4.4	FAM100B	0.985254128	0.000324558
NUP50-AS1	FAM100B	0.99150965	0.000107823
PSMD5-AS1	FAM100B	0.993079023	7.17E-05
TOPORS-AS1	FAM100B	0.974573511	0.00096154
AC087294.2	FAM100B	0.997091778	1.27E-05
AP001062.8	FAM100B	0.994986868	3.76E-05
RP11-455F5.3	FAM100B	0.997979747	6.12E-06
LL21NC02-21A1.1	MDS2	0.813723057	0.048816828
RP11-326C3.2	FAM100B	0.986890907	0.000256646
AP006621.8	FAM100B	0.99182369	0.000100005
AC011558.5	MDS2	0.813373872	0.048993938
JHDM1D-AS1	FAM100B	0.994833908	4.00E-05
RP11-20I23.6	FAM100B	0.995944099	2.46E-05
RP11-160E2.19	FAM100B	0.949210067	0.003803917
AC005786.7	FAM100B	0.992709693	7.95E-05
AC005944.2	FAM100B	0.986098415	0.000288538
CTB-191K22.5	FAM100B	0.987559786	0.000231176
RP11-20I23.8	FAM100B	0.996467775	1.87E-05
CDC37L1-AS1	FAM100B	0.98587501	0.000297864
RP5-1142A6.10	FAM100B	0.989425717	0.000167132
RP11-556I13.1	FAM100B	0.994725727	4.17E-05
AC024028.1	FAM101B	0.998314491	4.26E-06
RP11-498J9.2	FAM101B	0.963475421	0.001976705
RP11-34P13.14	FAM101B	0.944901995	0.004470052
RP11-473M20.11	FAM101B	0.98938752	0.000168339
RP11-78A19.3	FAM101B	0.927752664	0.007640963
Z69720.3	FAM101B	0.931866225	0.006805171
CTA-315H11.2	FAM102A	-0.970022293	0.001334524
RP11-126K1.8	FAM102A	0.933506904	0.006485004
RP3-438O4.4	FAM102A	0.955161019	0.002970726
NUP50-AS1	FAM102A	0.946605978	0.004200271
PSMD5-AS1	FAM102A	0.986175645	0.000285348
TOPORS-AS1	FAM102A	0.953866255	0.00314339
AC087294.2	FAM102A	0.974996699	0.000929932
AP001062.8	FAM102A	0.957294785	0.002696662
RP11-455F5.3	FAM102A	0.980448532	0.000569653
RP11-326C3.2	FAM102A	0.998952071	1.65E-06
AP006621.8	FAM102A	0.991083327	0.000118906
JHDM1D-AS1	FAM102A	0.980685942	0.000555947
RP11-20I23.6	FAM102A	0.987977483	0.000215943
RP11-160E2.19	FAM102A	0.989023948	0.000180049
AC005786.7	FAM102A	0.971044062	0.00124553
AC005944.2	FAM102A	0.958543878	0.002542292
CTB-191K22.5	FAM102A	0.93644421	0.005930646
RP11-20I23.8	FAM102A	0.982989485	0.000431575
CDC37L1-AS1	FAM102A	0.961215736	0.002227159
RP5-1142A6.10	FAM102A	0.984545578	0.000356413
RP11-556I13.1	FAM102A	0.980680538	0.000556257
AC011558.5	FAM107B	0.975751363	0.000874866
CTD-2139B15.2	FAM109B	0.949512163	0.003759185
RP11-118G23.2	FAM115A	0.980470374	0.000568385
RP11-680G24.6	FAM115A	0.951168889	0.003518498
LL21NC02-21A1.1	FAM115A	-0.930047975	0.007168781
CTD-2541M15.3	FAM124B	0.948402912	0.003924707
AC011558.5	FAM124B	-0.953400913	0.003206618
CCDC144NL-AS1	GATSL2	-0.870280656	0.024149262

CTD-2139B15.2	FAM127B	0.932831812	0.006615831
CTA-315H11.2	FAM127C	0.921746971	0.008945712
AC024028.1	FAM129C	0.977237689	0.000771287
RP11-498J9.2	FAM129C	0.998450154	3.60E-06
RP11-34P13.14	FAM129C	0.977508496	0.000753113
RP11-93O14.2	FAM129C	0.973936701	0.001010091
RP11-485G7.6	FAM129C	0.953615991	0.003177317
RP11-473M20.11	FAM129C	0.935429688	0.00611938
RP11-78A19.3	FAM129C	0.976012412	0.000856205
Z69720.3	FAM129C	0.982432544	0.000460212
RP3-337H4.8	FAM132B	0.927147755	0.007767845
CTA-315H11.2	FAM134A	-0.944889639	0.004472039
RP11-66D17.5	FAM134A	0.954814189	0.003016507
RP11-126K1.8	FAM134A	0.977893749	0.000727628
RP11-160E2.19	GATSL2	0.914944092	0.010544093
RP3-438O4.4	FAM134A	0.992505696	8.40E-05
NUP50-AS1	FAM134A	0.98696802	0.000253642
PSMD5-AS1	FAM134A	0.986064305	0.000289952
RMRP	GATSL2	0.836083291	0.038100918
TOPORS-AS1	FAM134A	0.978743798	0.000672937
AC087294.2	FAM134A	0.999545323	3.10E-07
AP001062.8	FAM134A	0.993930534	5.51E-05
RP11-455F5.3	FAM134A	0.99976513	8.27E-08
RP11-326C3.2	FAM134A	0.988466747	0.000198757
AP006621.8	FAM134A	0.987204556	0.000244538
JHDM1D-AS1	FAM134A	0.999625214	2.11E-07
RP11-20I23.6	FAM134A	0.997013031	1.34E-05
RP11-160E2.19	FAM134A	0.944535454	0.004529161
AC005786.7	FAM134A	0.992418489	8.60E-05
AC005944.2	FAM134A	0.971409349	0.001214453
CTB-191K22.5	FAM134A	0.981127822	0.000530878
RP11-20I23.8	FAM134A	0.999830483	4.31E-08
CDC37L1-AS1	FAM134A	0.993695513	5.95E-05
RP5-1142A6.10	FAM134A	0.987137502	0.000247102
RP11-556I13.1	FAM134A	0.999591711	2.50E-07
AC024028.1	FAM135A	0.918841896	0.009612677
RP11-498J9.2	FAM135A	0.952214402	0.003370637
RP11-34P13.14	FAM135A	0.93994607	0.00530142
RP11-93O14.2	FAM135A	0.973913952	0.001011847
RP11-485G7.6	FAM135A	0.919767261	0.009397698
RP11-78A19.3	FAM135A	0.974103717	0.000997243
CTA-315H11.2	FAM159A	-0.97169023	0.00119082
RP11-126K1.8	FAM159A	0.921234903	0.009061584
RP3-438O4.4	FAM159A	0.94143485	0.00504438
NUP50-AS1	FAM159A	0.933714216	0.006445084
CCDC144NL-AS1	PDE7B	-0.877586608	0.021560373
PSMD5-AS1	FAM159A	0.982619003	0.000450523
TOPORS-AS1	FAM159A	0.941933508	0.004959684
AC087294.2	FAM159A	0.964804763	0.001836259
AP001062.8	FAM159A	0.945182294	0.004425108
RP11-455F5.3	FAM159A	0.971621122	0.001196613
RP11-326C3.2	FAM159A	0.996123963	2.25E-05
AP006621.8	FAM159A	0.988115349	0.000211028
JHDM1D-AS1	FAM159A	0.97142891	0.001212799
RP11-20I23.6	FAM159A	0.98067361	0.000556655
RP11-160E2.19	FAM159A	0.993563922	6.20E-05
AC005786.7	FAM159A	0.960837657	0.002270502
AC005944.2	FAM159A	0.952458679	0.00333654
CTB-191K22.5	FAM159A	0.923101279	0.008642753
RP11-20I23.8	FAM159A	0.974284659	0.000983416
CDC37L1-AS1	FAM159A	0.948483551	0.003912556
RP5-1142A6.10	FAM159A	0.97829792	0.00070136
RP11-556I13.1	FAM159A	0.971415529	0.00121393

CTA-315H11.2	FAM167B	-0.946296155	0.004248711
RP11-66D17.5	FAM167B	0.949335677	0.003785286
RP11-126K1.8	FAM167B	0.972469179	0.001126486
RP3-438O4.4	FAM167B	0.993839905	5.68E-05
NUP50-AS1	FAM167B	0.982744194	0.000444075
AC011558.5	PDE7B	0.825267754	0.04312963
CCDC144NL-AS1	PNMA5	-0.880882019	0.020438552
PSMD5-AS1	FAM167B	0.981289292	0.000521861
TOPORS-AS1	FAM167B	0.979382252	0.000633255
AC087294.2	FAM167B	0.99870093	2.53E-06
AP001062.8	FAM167B	0.991116352	0.000118028
RP11-455F5.3	FAM167B	0.99859888	2.94E-06
RP11-326C3.2	FAM167B	0.987999948	0.000215138
AP006621.8	FAM167B	0.983519651	0.000405165
JHDM1D-AS1	FAM167B	0.999965919	1.74E-09
RP11-20I23.6	FAM167B	0.996159525	2.21E-05
RP11-160E2.19	FAM167B	0.942451685	0.004872418
AC005786.7	FAM167B	0.990963281	0.000122124
AC005944.2	FAM167B	0.963457844	0.001978596
CTB-191K22.5	FAM167B	0.975981773	0.000858385
RP11-20I23.8	FAM167B	0.999594531	2.47E-07
CDC37L1-AS1	FAM167B	0.99547582	3.07E-05
RP5-1142A6.10	FAM167B	0.985254624	0.000324536
RP11-556I13.1	FAM167B	0.999970966	1.26E-09
RP11-118G23.2	FAM168B	0.920117114	0.009317036
RP11-680G24.6	FAM168B	0.958005946	0.002608223
AC024028.1	FAM171A1	0.91725792	0.009986141
RP11-498J9.2	FAM171A1	0.977977257	0.000722161
RP11-34P13.14	FAM171A1	0.965606993	0.001753977
AC011558.5	PNMA5	0.837289331	0.037558279
CCDC144NL-AS1	GPX2	-0.863580589	0.026645983
RP11-93O14.2	FAM171A1	0.982675928	0.000447586
RP11-485G7.6	FAM171A1	0.948382418	0.003927798
RP11-78A19.3	FAM171A1	0.969262389	0.001402681
Z69720.3	FAM171A1	0.972544603	0.00112035
BX322559.3	FAM174A	-0.956996996	0.002734126
CTA-315H11.2	FAM176A	-0.962191358	0.002117217
RP11-66D17.5	FAM176A	0.92601797	0.008007547
RP11-126K1.8	FAM176A	0.959322001	0.002448394
RP3-438O4.4	FAM176A	0.979704435	0.000613685
NUP50-AS1	FAM176A	0.970771889	0.001268939
PSMD5-AS1	FAM176A	0.989363421	0.000169104
TOPORS-AS1	FAM176A	0.971851133	0.001177386
AC087294.2	FAM176A	0.992291133	8.89E-05
AP001062.8	FAM176A	0.980087537	0.000590812
RP11-455F5.3	FAM176A	0.994961932	3.80E-05
RP11-326C3.2	FAM176A	0.998379494	3.94E-06
AP006621.8	FAM176A	0.992749138	7.87E-05
JHDM1D-AS1	FAM176A	0.995508017	3.02E-05
RP11-20I23.6	FAM176A	0.997294545	1.10E-05
RP11-160E2.19	FAM176A	0.970167587	0.001321684
LL21NC02-21A1.1	GPX2	0.820319764	0.045526994
AC005786.7	FAM176A	0.986454003	0.000273998
AC005944.2	FAM176A	0.967098953	0.001605911
AC011558.5	GPX2	0.827890921	0.041883235
CCDC144NL-AS1	ASAP3	-0.864855632	0.026161862
CTB-191K22.5	FAM176A	0.962390363	0.002095128
RP11-20I23.8	FAM176A	0.996531813	1.80E-05
CDC37L1-AS1	FAM176A	0.983356418	0.000413208
RP5-1142A6.10	FAM176A	0.990171601	0.000144421
RP11-556I13.1	FAM176A	0.995500955	3.03E-05
RP3-337H4.8	FAM178B	0.947019872	0.004135986
CTD-2139B15.2	FAM178B	0.973858544	0.001016131

UBE2Q1-AS1	FAM184A	0.962155909	0.002121163
MIR210HG	FAM190A	0.952468861	0.003335122
RP11-473M20.11	FAM190B	0.924922893	0.008243269
CTD-2531D15.5	FAM195A	0.918640983	0.009659665
RP11-770G2.2	FAM195A	0.95080941	0.003570058
RP11-77G23.2	FAM198B	0.919576982	0.00944171
RP11-298J23.8	FAM21D	0.925113714	0.008201954
RP11-34P13.14	FAM46A	0.963358327	0.00198932
RP11-93O14.2	FAM46A	0.952527014	0.003327032
RP11-78A19.3	FAM46A	0.932842234	0.006613802
RP11-680G24.6	FAM46A	0.962416464	0.002092239
LA16c-359F1.1	FAM46A	0.923812185	0.008485755
Z69720.3	FAM46A	0.944291619	0.004568692
LL21NC02-21A1.1	ASAP3	0.819767902	0.045798119
RP11-34P13.14	FAM49A	0.93459311	0.006277185
RP11-93O14.2	FAM49A	0.917292606	0.009977889
RP11-680G24.6	FAM49A	0.958654211	0.002528872
LA16c-359F1.1	FAM49A	0.925896994	0.008033424
AC024028.1	FAM49B	0.98182141	0.000492688
RP11-498J9.2	FAM49B	0.976284522	0.000836967
RP11-34P13.14	FAM49B	0.987052831	0.000250359
RP11-93O14.2	FAM49B	0.964705035	0.001846618
RP11-473M20.11	FAM49B	0.948273485	0.003944248
RP11-78A19.3	FAM49B	0.967413764	0.001575493
Z69720.3	FAM49B	0.959076343	0.00247785
RP11-485G7.6	FAM53A	0.928207987	0.007546128
Z69720.3	FAM53A	0.921584944	0.008982298
AC024028.1	FAM53C	0.96488821	0.001827613
RP11-498J9.2	FAM53C	0.999666214	1.67E-07
RP11-34P13.14	FAM53C	0.983143148	0.000423835
RP11-93O14.2	FAM53C	0.983810873	0.00039101
RP11-485G7.6	FAM53C	0.960358437	0.002326033
RP11-78A19.3	FAM53C	0.98277973	0.000442253
Z69720.3	FAM53C	0.989224103	0.000173554
AC011558.5	FAM54A	-0.929112079	0.007359537
AC011558.5	FAM59B	-0.975352743	0.000903744
CTA-315H11.2	FAM65B	-0.967150996	0.001600863
PSMD5-AS1	FAM65B	0.963254539	0.002000536
RP11-118G23.2	SLC2A4	-0.843994261	0.034608269
RP11-66D17.5	SLC2A4	0.911558061	0.011387069
RP11-126K1.8	SLC2A4	0.905534053	0.012964224
NUP50-AS1	SLC2A4	0.874358075	0.022687155
AC087294.2	SLC2A4	0.815069052	0.048136914
AP001062.8	SLC2A4	0.861073035	0.027610358
AC005944.2	SLC2A4	0.839894479	0.036398612
CTB-191K22.5	SLC2A4	0.890452587	0.017343634
AC087294.2	FAM65B	0.933155383	0.006552967
CCDC144NL-AS1	ALOX15	-0.865875147	0.025777796
RP11-455F5.3	FAM65B	0.942429097	0.004876207
RP11-326C3.2	FAM65B	0.982054572	0.000480168
AP006621.8	FAM65B	0.970538666	0.00128917
JHDM1D-AS1	FAM65B	0.942769802	0.00481922
RP11-20I23.6	FAM65B	0.956907743	0.002745404
RP11-160E2.19	FAM65B	0.997664776	8.17E-06
AC005786.7	FAM65B	0.930999577	0.00697733
AC005944.2	FAM65B	0.927420042	0.007710605
RP11-20I23.8	FAM65B	0.946639012	0.004195123
RP5-1142A6.10	FAM65B	0.957735911	0.002641633
RP11-556I13.1	FAM65B	0.942779552	0.004817595
AC011558.5	FAM65B	0.948250119	0.003947781
AC011558.5	FAM72D	-0.963935124	0.001927559
RP3-337H4.8	FAM83A	0.941962584	0.004954768
MIR210HG	FAM83A	0.920261925	0.009283747

RP11-91K8.5	FAM83A	0.919121815	0.009547398
RP11-66D17.5	FAM89B	0.97416913	0.000992233
RP11-126K1.8	FAM89B	0.996599493	1.73E-05
RP3-438O4.4	FAM89B	0.967826429	0.001536056
NUP50-AS1	FAM89B	0.987362738	0.000238541
LL21NC02-21A1.1	ALOX15	0.817736536	0.046802562
PSMD5-AS1	FAM89B	0.959706019	0.002402697
TOPORS-AS1	FAM89B	0.945701139	0.004342503
CCDC144NL-AS1	TLR10	-0.871684872	0.023640818
AC087294.2	FAM89B	0.976225613	0.000841113
AP001062.8	FAM89B	0.989155208	0.000175777
RP11-455F5.3	FAM89B	0.975305214	0.000907219
RP11-326C3.2	FAM89B	0.937258499	0.005781253
AP006621.8	FAM89B	0.955378953	0.002942136
JHDM1D-AS1	FAM89B	0.967431824	0.001573757
RP11-20I23.6	FAM89B	0.958232147	0.002580397
AC005786.7	FAM89B	0.962398949	0.002094178
AC005944.2	FAM89B	0.95827042	0.002575704
CTB-191K22.5	FAM89B	0.986377443	0.000277097
RP11-20I23.8	FAM89B	0.967643724	0.001553456
CDC37L1-AS1	FAM89B	0.961051055	0.002245987
RP5-1142A6.10	FAM89B	0.943883559	0.004635226
RP11-556I13.1	FAM89B	0.967181909	0.001597868
AC024028.1	FAM91A1	0.922168245	0.008850929
RP11-498J9.2	FAM91A1	0.927058752	0.007786599
RP11-34P13.14	FAM91A1	0.981398696	0.000515795
RP11-93O14.2	FAM91A1	0.941598839	0.005016449
RP11-78A19.3	FAM91A1	0.935649524	0.006078239
Z69720.3	FAM91A1	0.934871237	0.006224504
RP11-77G23.2	FANCB	0.925649224	0.00808655
CTD-2541M15.3	FANCB	0.955557742	0.002918782
AC011558.5	TLR10	0.819151172	0.046102
RP11-160E2.19	FANCL	-0.949130315	0.003815769
AC011558.5	FANCL	-0.997708872	7.87E-06
CTA-315H11.2	FANK1	-0.936082504	0.005997604
RP11-66D17.5	FANK1	0.952491019	0.003332039
RP11-126K1.8	FANK1	0.976023762	0.000855398
RP3-438O4.4	FANK1	0.995369482	3.21E-05
NUP50-AS1	FANK1	0.983055325	0.00042825
PSMD5-AS1	FANK1	0.973180434	0.001069288
TOPORS-AS1	FANK1	0.978189696	0.000708347
AC087294.2	FANK1	0.997507464	9.31E-06
AP001062.8	FANK1	0.992126671	9.27E-05
RP11-455F5.3	FANK1	0.996636406	1.70E-05
RP11-326C3.2	FANK1	0.979667306	0.000615925
AP006621.8	FANK1	0.975608816	0.000885139
JHDM1D-AS1	FANK1	0.998038059	5.77E-06
RP11-20I23.6	FANK1	0.990694663	0.000129481
RP11-160E2.19	FANK1	0.924268579	0.008385703
AC005786.7	FANK1	0.987059057	0.000250118
AC005944.2	FANK1	0.953877173	0.003141914
CTB-191K22.5	FANK1	0.975872731	0.000866165
RP11-20I23.8	FANK1	0.996803203	1.53E-05
CDC37L1-AS1	FANK1	0.995196519	3.46E-05
RP5-1142A6.10	FANK1	0.97712958	0.000778603
RP11-556I13.1	FANK1	0.998039016	5.76E-06
AC024028.1	FAS	0.934116549	0.006367956
RP11-498J9.2	FAS	0.991430729	0.000109834
RP11-34P13.14	FAS	0.962967851	0.002031677
RP11-93O14.2	FAS	0.974382673	0.000975966
RP11-485G7.6	FAS	0.978448318	0.000691707
RP11-78A19.3	FAS	0.975974201	0.000858924
LA16c-359F1.1	FAS	0.918284198	0.009743381

Z69720.3	FAS	0.986503268	0.000272013
CTC-1337H24.3	FASTK	0.929177782	0.007346065
BX322559.3	FAT1	0.920912538	0.009134901
AC024028.1	FBLN1	0.954484881	0.003060294
RP11-498J9.2	FBLN1	0.998102497	5.40E-06
RP11-34P13.14	FBLN1	0.973240438	0.00106453
RP11-93O14.2	FBLN1	0.983196505	0.000421164
RP11-485G7.6	FBLN1	0.968418824	0.001480307
RP11-78A19.3	FBLN1	0.979823347	0.000606539
Z69720.3	FBLN1	0.985743102	0.00030344
CTA-315H11.2	FBLN5	-0.966610214	0.001653704
RP11-126K1.8	FBLN5	0.956370819	0.002813734
RP3-438O4.4	FBLN5	0.969838436	0.001350861
RP11-118G23.2	ATP1B2	-0.865283076	0.026000509
RP3-339A18.6	ATP1B2	-0.91253366	0.011140966
CTC-1337H24.3	ATP1B2	0.815120106	0.048111212
LL21NC02-21A1.1	ATP1B2	0.856949983	0.029231323
CCDC144NL-AS1	MRVI1	-0.861128159	0.027588984
NUP50-AS1	FBLN5	0.963857976	0.001935764
PSMD5-AS1	FBLN5	0.990836365	0.000125574
TOPORS-AS1	FBLN5	0.963252841	0.00200072
AC087294.2	FBLN5	0.987042859	0.000250744
AP001062.8	FBLN5	0.974374114	0.000976615
RP11-455F5.3	FBLN5	0.991440935	0.000109573
RP11-326C3.2	FBLN5	0.998994028	1.52E-06
AP006621.8	FBLN5	0.994861925	3.95E-05
JHDM1D-AS1	FBLN5	0.99060208	0.000132066
RP11-20I23.6	FBLN5	0.993296943	6.72E-05
RP11-160E2.19	FBLN5	0.974952182	0.000933232
AC005786.7	FBLN5	0.979328922	0.000636524
AC005944.2	FBLN5	0.964557457	0.001862
CTB-191K22.5	FBLN5	0.9546071	0.003044007
RP11-20I23.8	FBLN5	0.992093244	9.35E-05
CDC37L1-AS1	FBLN5	0.973321551	0.001058115
RP5-1142A6.10	FBLN5	0.986233398	0.000282974
RP11-556I13.1	FBLN5	0.990560344	0.00013324
CTA-315H11.2	FBXL16	-0.956851011	0.002752585
RP11-66D17.5	FBXL16	0.934138431	0.006363774
LL21NC02-21A1.1	MRVI1	0.819098315	0.046128088
RP11-126K1.8	FBXL16	0.962829639	0.002046776
RP3-438O4.4	FBXL16	0.985210141	0.000326492
AC011558.5	MRVI1	0.835273465	0.038467333
CCDC144NL-AS1	ALS2CR12	-0.878824725	0.021135536
NUP50-AS1	FBXL16	0.975292089	0.000908179
PSMD5-AS1	FBXL16	0.987363683	0.000238506
TOPORS-AS1	FBXL16	0.976539013	0.00081917
AC087294.2	FBXL16	0.995084202	3.62E-05
AP001062.8	FBXL16	0.983978994	0.000382953
RP11-455F5.3	FBXL16	0.996730317	1.60E-05
RP11-326C3.2	FBXL16	0.99632207	2.03E-05
AP006621.8	FBXL16	0.990377677	0.000138438
JHDM1D-AS1	FBXL16	0.997748999	7.59E-06
RP11-20I23.6	FBXL16	0.998363163	4.02E-06
RP11-160E2.19	FBXL16	0.963519596	0.001971955
AC005786.7	FBXL16	0.989645446	0.00016027
AC005944.2	FBXL16	0.967002639	0.001615275
CTB-191K22.5	FBXL16	0.967148413	0.001601113
RP11-20I23.8	FBXL16	0.998382117	3.92E-06
CDC37L1-AS1	FBXL16	0.988247057	0.000206386
RP5-1142A6.10	FBXL16	0.990763698	0.00012757
RP11-556I13.1	FBXL16	0.997752565	7.57E-06
RMRP	ALS2CR12	0.823262726	0.044093808
AC024028.1	FBXO41	0.988032992	0.000213957

RP11-473M20.11	FBXO41	0.994386901	4.72E-05
RP11-160E2.19	FBXO44	0.962460559	0.002087364
AC011558.5	FBXO44	0.987579297	0.000230453
CCDC144NL-AS1	ANKRD22	-0.876472232	0.021946202
CTA-315H11.2	FBXO7	-0.943241248	0.004740908
RP11-66D17.5	FBXO7	0.954224299	0.003095163
RP11-126K1.8	FBXO7	0.975860692	0.000867026
RP3-438O4.4	FBXO7	0.994524725	4.49E-05
NUP50-AS1	FBXO7	0.985631547	0.000308195
PSMD5-AS1	FBXO7	0.981994981	0.000483353
TOPORS-AS1	FBXO7	0.979677733	0.000615295
AC087294.2	FBXO7	0.999385567	5.66E-07
AP001062.8	FBXO7	0.993203779	6.91E-05
RP11-455F5.3	FBXO7	0.999070665	1.30E-06
RP11-326C3.2	FBXO7	0.986536183	0.000270691
AP006621.8	FBXO7	0.983580432	0.00040219
JHDM1D-AS1	FBXO7	0.999890455	1.80E-08
RP11-20I23.6	FBXO7	0.996019527	2.37E-05
RP11-160E2.19	FBXO7	0.939783657	0.00532984
AC005786.7	FBXO7	0.991820892	0.000100073
AC005944.2	FBXO7	0.966251208	0.001689252
CTB-191K22.5	FBXO7	0.979490469	0.000626648
RP11-20I23.8	FBXO7	0.999618934	2.18E-07
CDC37L1-AS1	FBXO7	0.995748058	2.71E-05
LL21NC02-21A1.1	ANKRD22	0.831171297	0.040348623
RP5-1142A6.10	FBXO7	0.985204809	0.000326727
RP11-556I13.1	FBXO7	0.999880582	2.14E-08
AC011558.5	ANKRD22	0.819503136	0.045928463
CCDC144NL-AS1	SUN3	-0.873084752	0.023139078
CTA-315H11.2	FBXO9	-0.944657927	0.004509368
RP11-66D17.5	FBXO9	0.952943612	0.003269357
RP11-126K1.8	FBXO9	0.975308728	0.000906962
RP3-438O4.4	FBXO9	0.994109324	5.19E-05
NUP50-AS1	FBXO9	0.984994949	0.000336038
PSMD5-AS1	FBXO9	0.982401408	0.00046184
TOPORS-AS1	FBXO9	0.979262762	0.000640591
AC087294.2	FBXO9	0.999261101	8.19E-07
AP001062.8	FBXO9	0.992766816	7.83E-05
RP11-455F5.3	FBXO9	0.999089473	1.24E-06
RP11-326C3.2	FBXO9	0.987208419	0.00024439
AP006621.8	FBXO9	0.984110315	0.000376717
JHDM1D-AS1	FBXO9	0.999937625	5.84E-09
RP11-20I23.6	FBXO9	0.996167121	2.20E-05
RP11-160E2.19	FBXO9	0.941093322	0.005102792
AC005786.7	FBXO9	0.991574934	0.000106174
AC005944.2	FBXO9	0.966166241	0.00169772
CTB-191K22.5	FBXO9	0.978791488	0.000669932
RP11-20I23.8	FBXO9	0.999692577	1.42E-07
CDC37L1-AS1	FBXO9	0.995491765	3.04E-05
RP5-1142A6.10	FBXO9	0.985337361	0.000320913
RP11-556I13.1	FBXO9	0.99992866	7.63E-09
AC011558.5	SUN3	0.821219591	0.045086523
AC024028.1	FCAR	0.99288516	7.58E-05
RP11-498J9.2	FCAR	0.987858945	0.000220213
RP11-34P13.14	FCAR	0.967613088	0.001556383
RP11-93O14.2	FCAR	0.953121245	0.003244916
RP11-485G7.6	FCAR	0.926438296	0.007917953
RP11-473M20.11	FCAR	0.96628963	0.00168543
RP11-78A19.3	FCAR	0.959170586	0.002466529
Z69720.3	FCAR	0.963889108	0.001932451
AC024028.1	FCER1A	0.956719372	0.002769282
RP11-498J9.2	FCER1A	0.998289049	4.39E-06
RP11-34P13.14	FCER1A	0.985974712	0.000293684

RP11-93O14.2	FCER1A	0.987121033	0.000247734
RP11-485G7.6	FCER1A	0.960143601	0.002351142
RP11-78A19.3	FCER1A	0.983900391	0.00038671
Z69720.3	FCER1A	0.99229147	8.89E-05
CTA-315H11.2	FCGBP	-0.968514887	0.001471363
RP11-126K1.8	FCGBP	0.946843204	0.004163366
RP3-438O4.4	FCGBP	0.966813798	0.001633712
NUP50-AS1	FCGBP	0.958428688	0.00255634
PSMD5-AS1	FCGBP	0.989222069	0.00017362
TOPORS-AS1	FCGBP	0.962204162	0.002115792
AC087294.2	FCGBP	0.98384087	0.000389567
AP001062.8	FCGBP	0.968709679	0.001453308
RP11-455F5.3	FCGBP	0.988221032	0.000207299
RP11-326C3.2	FCGBP	0.999995814	2.63E-11
AP006621.8	FCGBP	0.993492736	6.34E-05
JHDM1D-AS1	FCGBP	0.988412545	0.000200626
RP11-20I23.6	FCGBP	0.993081748	7.16E-05
RP11-160E2.19	FCGBP	0.981747831	0.000496672
AC005786.7	FCGBP	0.978540483	0.000685825
AC005944.2	FCGBP	0.963516862	0.001972249
CTB-191K22.5	FCGBP	0.949087444	0.003822148
RP11-20I23.8	FCGBP	0.990158392	0.000144809
CDC37L1-AS1	FCGBP	0.971759134	0.001185058
RP5-1142A6.10	FCGBP	0.987728129	0.000224974
RP11-556I13.1	FCGBP	0.988401197	0.000201018
NUP50-AS1	FCGR1B	0.922586582	0.008757293
TOPORS-AS1	FCGR1B	0.943653836	0.004672889
RP11-20I23.6	FCGR1B	0.925520865	0.008114139
AC005786.7	FCGR1B	0.943590879	0.004683237
AC005944.2	FCGR1B	0.937472724	0.00574226
RP5-1142A6.10	FCGR1B	0.953196792	0.003234548
RP11-160E2.19	FCGR2A	0.924529257	0.008328815
CCDC144NL-AS1	SDR42E1	-0.873902618	0.022848316
AC011558.5	FCGR2A	0.953786671	0.003154159
AC024028.1	FCGR2C	0.997975057	6.15E-06
RP11-498J9.2	FCGR2C	0.954033568	0.003120808
RP11-34P13.14	FCGR2C	0.939527399	0.005374831
RP11-473M20.11	FCGR2C	0.993465634	6.39E-05
Z69720.3	FCGR2C	0.923720996	0.008505816
RP11-66D17.5	FCGR3A	0.97758436	0.00074806
RP11-126K1.8	FCGR3A	0.980825965	0.000547941
RP3-438O4.4	FCGR3A	0.986804245	0.000260043
NUP50-AS1	FCGR3A	0.996835871	1.50E-05
PSMD5-AS1	FCGR3A	0.982926717	0.000434757
TOPORS-AS1	FCGR3A	0.98221443	0.000471677
AC087294.2	FCGR3A	0.993808488	5.74E-05
AP001062.8	FCGR3A	0.995163779	3.50E-05
RP11-455F5.3	FCGR3A	0.991994221	9.59E-05
RP11-326C3.2	FCGR3A	0.974338407	0.000979327
AP006621.8	FCGR3A	0.979338191	0.000635955
JHDM1D-AS1	FCGR3A	0.988982625	0.000181405
RP11-20I23.6	FCGR3A	0.992078986	9.39E-05
RP11-160E2.19	FCGR3A	0.933221258	0.006540204
AC005786.7	FCGR3A	0.996425426	1.91E-05
AC005944.2	FCGR3A	0.98724947	0.000242828
AC011558.5	SDR42E1	0.825340998	0.043094597
CCDC144NL-AS1	MTUS1	-0.877134057	0.021716665
CTB-191K22.5	FCGR3A	0.993175632	6.97E-05
RP11-20I23.8	FCGR3A	0.99072778	0.000128563
CDC37L1-AS1	FCGR3A	0.985340558	0.000320774
RP5-1142A6.10	FCGR3A	0.989734827	0.00015752
RP11-556I13.1	FCGR3A	0.988881987	0.000184728
CTA-315H11.2	FCGR3B	-0.947645549	0.004039731

RP11-66D17.5	FCGR3B	0.948457644	0.003916458
RP11-126K1.8	FCGR3B	0.972158187	0.001151959
RP3-438O4.4	FCGR3B	0.992760199	7.84E-05
NUP50-AS1	FCGR3B	0.982797536	0.000441342
PSMD5-AS1	FCGR3B	0.983351135	0.00041347
TOPORS-AS1	FCGR3B	0.979575334	0.00062149
AC087294.2	FCGR3B	0.998702035	2.53E-06
AP001062.8	FCGR3B	0.990897052	0.000123918
RP11-455F5.3	FCGR3B	0.998885833	1.86E-06
RP11-326C3.2	FCGR3B	0.989757436	0.000156828
AP006621.8	FCGR3B	0.985504329	0.000313664
JHDM1D-AS1	FCGR3B	0.999963711	1.98E-09
RP11-20I23.6	FCGR3B	0.997135719	1.23E-05
RP11-160E2.19	FCGR3B	0.946494939	0.0042176
AC005786.7	FCGR3B	0.991607278	0.000105361
AC005944.2	FCGR3B	0.965792035	0.001735263
AC011558.5	MTUS1	0.820551374	0.045413429
CCDC144NL-AS1	FBXL16	-0.879875454	0.020778167
CTB-191K22.5	FCGR3B	0.975914818	0.000863158
RP11-20I23.8	FCGR3B	0.999851369	3.31E-08
CDC37L1-AS1	FCGR3B	0.994496924	4.53E-05
RP5-1142A6.10	FCGR3B	0.987048423	0.000250529
RP11-556I13.1	FCGR3B	0.999962724	2.08E-09
AC024028.1	FCHSD2	0.918263371	0.009748279
RP11-498J9.2	FCHSD2	0.956597592	0.002784773
RP11-34P13.14	FCHSD2	0.991428464	0.000109892
RP11-93O14.2	FCHSD2	0.966622926	0.001652452
RP11-78A19.3	FCHSD2	0.95248562	0.00333279
RP11-680G24.6	FCHSD2	0.924111731	0.008420023
Z69720.3	FCHSD2	0.974344864	0.000978836
AC024028.1	FCRL1	0.964355341	0.001883169
RP11-498J9.2	FCRL1	1	0
RP11-34P13.14	FCRL1	0.978552256	0.000685076
RP11-93O14.2	FCRL1	0.982998398	0.000431125
RP11-485G7.6	FCRL1	0.965304842	0.001784749
RP11-78A19.3	FCRL1	0.983256999	0.000418145
Z69720.3	FCRL1	0.986539728	0.000270549
AC024028.1	FCRL2	0.964064392	0.001913849
RP11-498J9.2	FCRL2	0.999992722	7.95E-11
RP11-34P13.14	FCRL2	0.978103608	0.000713929
AC011558.5	FBXL16	0.843050536	0.035016623
RP11-93O14.2	FCRL2	0.98305264	0.000428386
RP11-485G7.6	FCRL2	0.965677069	0.001746878
RP11-78A19.3	FCRL2	0.983194125	0.000421283
Z69720.3	FCRL2	0.986290917	0.00028062
CTA-315H11.2	FCRL3	-0.970012147	0.001335423
RP11-126K1.8	FCRL3	0.936947355	0.005838117
RP3-438O4.4	FCRL3	0.956666695	0.002775978
NUP50-AS1	FCRL3	0.949066064	0.003825331
PSMD5-AS1	FCRL3	0.987526388	0.000232416
TOPORS-AS1	FCRL3	0.954726122	0.003028187
AC087294.2	FCRL3	0.976574635	0.000816694
AP001062.8	FCRL3	0.959656322	0.002408587
RP11-455F5.3	FCRL3	0.981999287	0.000483122
RP11-326C3.2	FCRL3	0.999248734	8.46E-07
AP006621.8	FCRL3	0.992237357	9.02E-05
JHDM1D-AS1	FCRL3	0.981908692	0.000487983
RP11-20I23.6	FCRL3	0.988771016	0.000188427
RP11-160E2.19	FCRL3	0.987923541	0.000217881
AC005786.7	FCRL3	0.972113675	0.001155628
AC005944.2	FCRL3	0.960229496	0.002341087
CTB-191K22.5	FCRL3	0.939118473	0.00544701
RP11-20I23.8	FCRL3	0.984188307	0.000373038

CCDC144NL-AS1	ZNF831	-0.884790208	0.019145337
CDC37L1-AS1	FCRL3	0.962394599	0.002094659
RP5-1142A6.10	FCRL3	0.984960428	0.000337582
RP11-556I13.1	FCRL3	0.981893778	0.000488785
AC024028.1	FCRLA	0.93199066	0.006780625
RP11-498J9.2	FCRLA	0.985983541	0.000293315
RP11-34P13.14	FCRLA	0.948574651	0.003898851
RP11-93O14.2	FCRLA	0.958424562	0.002556844
RP11-485G7.6	FCRLA	0.976051732	0.000853412
RP11-78A19.3	FCRLA	0.961380302	0.002208421
Z69720.3	FCRLA	0.980592474	0.000561323
RP11-485G7.6	FCRLB	0.949590966	0.00374756
CTD-2139B15.2	FDX1L	0.956167684	0.002839801
LA16c-359F1.1	FER1L4	0.927939785	0.007601919
BX322559.3	FER1L4	-0.932301916	0.006719415
AC024028.1	FES	0.94124727	0.005076421
RP11-473M20.11	FES	0.97086174	0.001261188
CTA-315H11.2	FEZ1	-0.967662516	0.001551661
RP11-126K1.8	FEZ1	0.948630101	0.003890521
RP3-438O4.4	FEZ1	0.968427064	0.001479539
NUP50-AS1	FEZ1	0.960065631	0.002360288
PSMD5-AS1	FEZ1	0.989362939	0.000169119
TOPORS-AS1	FEZ1	0.963632065	0.001959889
AC011558.5	ZNF831	0.844861419	0.034235033
CCDC144NL-AS1	PTCH1	-0.868199229	0.02491238
AC087294.2	FEZ1	0.985001677	0.000335738
AP001062.8	FEZ1	0.970261098	0.001313453
RP11-455F5.3	FEZ1	0.989205723	0.000174146
RP11-326C3.2	FEZ1	0.999972618	1.12E-09
AP006621.8	FEZ1	0.993567531	6.19E-05
JHDM1D-AS1	FEZ1	0.989390915	0.000168232
RP11-20I23.6	FEZ1	0.99370135	5.94E-05
RP11-160E2.19	FEZ1	0.980389556	0.000573083
AC005786.7	FEZ1	0.979587558	0.000620749
AC005944.2	FEZ1	0.963872981	0.001934166
CTB-191K22.5	FEZ1	0.950704559	0.003585166
RP11-20I23.8	FEZ1	0.991043424	0.000119971
CDC37L1-AS1	FEZ1	0.973098162	0.001075829
RP5-1142A6.10	FEZ1	0.988147517	0.00020989
RP11-556I13.1	FEZ1	0.989378873	0.000168613
CTA-315H11.2	FFAR2	-0.962927732	0.002036054
RP11-66D17.5	FFAR2	0.921311355	0.009044238
RP11-126K1.8	FFAR2	0.955721356	0.002897491
RP3-438O4.4	FFAR2	0.976682393	0.000809227
NUP50-AS1	FFAR2	0.967887544	0.001530257
LL21NC02-21A1.1	PTCH1	0.813070814	0.049147892
PSMD5-AS1	FFAR2	0.98933377	0.000170046
TOPORS-AS1	FFAR2	0.970598949	0.001283925
AC087294.2	FFAR2	0.99030243	0.000140608
AP001062.8	FFAR2	0.97723953	0.000771163
RP11-455F5.3	FFAR2	0.993334776	6.65E-05
RP11-326C3.2	FFAR2	0.999150229	1.08E-06
AP006621.8	FFAR2	0.992949541	7.44E-05
JHDM1D-AS1	FFAR2	0.993850086	5.66E-05
RP11-20I23.6	FFAR2	0.996711562	1.62E-05
RP11-160E2.19	FFAR2	0.973833887	0.001018041
AC005786.7	FFAR2	0.985167647	0.000328367
AC005944.2	FFAR2	0.966409936	0.001673489
CTB-191K22.5	FFAR2	0.958999247	0.00248713
RP11-20I23.8	FFAR2	0.995084767	3.62E-05
CDC37L1-AS1	FFAR2	0.980544101	0.000564116
RP5-1142A6.10	FFAR2	0.990489964	0.000135231
RP11-556I13.1	FFAR2	0.993844275	5.67E-05

AC024028.1	FGD2	0.967986446	0.001520897
RP11-473M20.11	FGD2	0.98379124	0.000391957
AC024028.1	FGF11	0.979697034	0.000614131
RP11-498J9.2	FGF11	0.994439652	4.63E-05
RP11-34P13.14	FGF11	0.963087659	0.002018634
RP11-93O14.2	FGF11	0.965007739	0.001815264
RP11-485G7.6	FGF11	0.952617589	0.00331445
CCDC144NL-AS1	ARHGEF4	-0.868110639	0.024945111
RP11-473M20.11	FGF11	0.944540275	0.004528381
RP11-78A19.3	FGF11	0.969036796	0.001423238
Z69720.3	FGF11	0.9690463	0.001422369
CTA-315H11.2	FGFR1OP2	-0.946111516	0.004277708
RP11-66D17.5	FGFR1OP2	0.942144462	0.004924066
RP11-126K1.8	FGFR1OP2	0.977982516	0.000721818
RP3-438O4.4	FGFR1OP2	0.988209344	0.00020771
NUP50-AS1	FGFR1OP2	0.977960369	0.000723265
PSMD5-AS1	FGFR1OP2	0.976221605	0.000841396
TOPORS-AS1	FGFR1OP2	0.967733187	0.001544924
AC087294.2	FGFR1OP2	0.994698309	4.21E-05
AP001062.8	FGFR1OP2	0.989385384	0.000168407
RP11-455F5.3	FGFR1OP2	0.995697436	2.77E-05
RP11-326C3.2	FGFR1OP2	0.980838108	0.000547249
AP006621.8	FGFR1OP2	0.97941309	0.000631369
JHDM1D-AS1	FGFR1OP2	0.995670084	2.81E-05
RP11-20I23.6	FGFR1OP2	0.987144694	0.000246826
RP11-160E2.19	FGFR1OP2	0.926374437	0.007931533
AC005786.7	FGFR1OP2	0.979537691	0.000623775
AC005944.2	FGFR1OP2	0.951448421	0.003478659
LL21NC02-21A1.1	ARHGEF4	0.843247912	0.034931031
CTB-191K22.5	FGFR1OP2	0.970873986	0.001260133
RP11-20I23.8	FGFR1OP2	0.994597761	4.37E-05
AC011558.5	ARHGEF4	0.814726628	0.048309466
CDC37L1-AS1	FGFR1OP2	0.98820914	0.000207717
RP5-1142A6.10	FGFR1OP2	0.971203212	0.001231943
RP11-556I13.1	FGFR1OP2	0.99563096	2.86E-05
RP11-473M20.11	FHL1	0.963102598	0.002017011
RP4-784A16.3	FIGNL1	0.947031611	0.00413417
AC024028.1	FILIP1L	0.957097462	0.002721458
RP11-498J9.2	FILIP1L	0.998893953	1.83E-06
RP11-34P13.14	FILIP1L	0.984561871	0.000355664
RP11-93O14.2	FILIP1L	0.988190873	0.00020836
RP11-485G7.6	FILIP1L	0.963340984	0.001991192
RP11-78A19.3	FILIP1L	0.986246968	0.000282418
Z69720.3	FILIP1L	0.990535784	0.000133933
RP11-66D17.5	FIS1	0.985928438	0.00029562
RP11-126K1.8	FIS1	0.994573106	4.41E-05
RP3-438O4.4	FIS1	0.978369331	0.000696768
NUP50-AS1	FIS1	0.99752349	9.19E-06
PSMD5-AS1	FIS1	0.978229739	0.000705757
TOPORS-AS1	FIS1	0.959753431	0.002397084
AC087294.2	FIS1	0.98713371	0.000247247
AP001062.8	FIS1	0.996004297	2.39E-05
RP11-455F5.3	FIS1	0.985725333	0.000304195
RP11-326C3.2	FIS1	0.956350409	0.002816348
CCDC144NL-AS1	BTNL8	-0.875356968	0.022335608
AP006621.8	FIS1	0.972340635	0.00113698
JHDM1D-AS1	FIS1	0.979403855	0.000631933
RP11-20I23.6	FIS1	0.977009696	0.000786755
AC005786.7	FIS1	0.981724152	0.000497958
AC005944.2	FIS1	0.986197167	0.000284462
CTB-191K22.5	FIS1	0.999248549	8.47E-07
RP11-20I23.8	FIS1	0.98104972	0.000535267
CDC37L1-AS1	FIS1	0.97617441	0.000844726

RP5-1142A6.10	FIS1	0.968430232	0.001479243
RP11-556I13.1	FIS1	0.979203213	0.000644262
LLNLR-284B4.1	FKBP5	-0.96357925	0.001965551
RP3-337H4.8	FKBPL	0.958953133	0.002492689
CTA-315H11.2	FLCN	-0.941714729	0.004996757
RP11-66D17.5	FLCN	0.957792171	0.002634655
RP11-126K1.8	FLCN	0.98042938	0.000570766
RP3-438O4.4	FLCN	0.993923281	5.53E-05
NUP50-AS1	FLCN	0.988029914	0.000214067
PSMD5-AS1	FLCN	0.983459898	0.0004081
TOPORS-AS1	FLCN	0.977975983	0.000722245
AC087294.2	FLCN	0.999697872	1.37E-07
AP001062.8	FLCN	0.995197361	3.45E-05
RP11-455F5.3	FLCN	0.999533006	3.27E-07
AC011558.5	BTNL8	0.825809558	0.042870795
CCDC144NL-AS1	WDR82P1	-0.86827942	0.02488277
RP11-326C3.2	FLCN	0.985116411	0.000330633
AP006621.8	FLCN	0.984480665	0.000359406
JHDM1D-AS1	FLCN	0.999399383	5.41E-07
RP11-20I23.6	FLCN	0.995149925	3.52E-05
RP11-160E2.19	FLCN	0.936972859	0.005833446
AC005786.7	FLCN	0.991280223	0.00011372
AC005944.2	FLCN	0.968870922	0.001438447
CTB-191K22.5	FLCN	0.982565201	0.000453308
RP11-20I23.8	FLCN	0.999262817	8.15E-07
CDC37L1-AS1	FLCN	0.994632455	4.31E-05
RP5-1142A6.10	FLCN	0.983905283	0.000386475
RP11-556I13.1	FLCN	0.999363257	6.08E-07
RP11-473M20.11	FLI1	0.95553496	0.002921753
RP11-160E2.19	FMNL1	0.943624703	0.004677676
AC011558.5	FMNL1	0.986637616	0.000266637
AC024028.1	FN1	0.920602551	0.009205673
RP11-498J9.2	FN1	0.985320427	0.000321653
RP11-34P13.14	FN1	0.939750508	0.005335649
RP11-93O14.2	FN1	0.966069587	0.001707378
RP11-485G7.6	FN1	0.982525008	0.000455395
RP11-78A19.3	FN1	0.961337109	0.002213332
Z69720.3	FN1	0.973447628	0.001048183
CCDC144NL-AS1	KLRC4	-0.869442451	0.024455216
CTD-2139B15.2	FN3K	0.977750782	0.000737035
AC011558.5	FNBP1	0.940579297	0.005191328
RP11-498J9.2	FNDC3B	0.955626954	0.002909766
RP11-34P13.14	FNDC3B	0.977837865	0.000731298
RP11-93O14.2	FNDC3B	0.985710966	0.000304806
RP11-485G7.6	FNDC3B	0.919945572	0.009356544
RP11-78A19.3	FNDC3B	0.974333564	0.000979695
RP11-680G24.6	FNDC3B	0.957676679	0.002648989
LA16c-359F1.1	FNDC3B	0.954864071	0.003009901
Z69720.3	FNDC3B	0.965071453	0.001808699
LLNLR-284B4.1	FNIP2	-0.937693535	0.005702204
RP4-784A16.3	FNIP2	0.923008173	0.008663418
RP11-77G23.2	FNIP2	0.963083843	0.002019049
RP11-770G2.2	FOLR2	0.939289314	0.005416798
AC024028.1	FOSB	0.958275601	0.002575069
RP11-498J9.2	FOSB	0.997152579	1.22E-05
RP11-34P13.14	FOSB	0.989072893	0.00017845
RP11-93O14.2	FOSB	0.985221049	0.000326012
RP11-485G7.6	FOSB	0.953779574	0.003155121
RP11-78A19.3	FOSB	0.9812878	0.000521944
LL21NC02-21A1.1	KLRC4	0.812647251	0.04936344
Z69720.3	FOSB	0.994033283	5.33E-05
RP11-498J9.2	FOSL1	0.928560553	0.007473093
AC011558.5	KLRC4	0.815763335	0.047787937

CCDC144NL-AS1	TF	-0.873590748	0.022958983
RP11-34P13.14	FOSL1	0.929158768	0.007349963
RP11-93O14.2	FOSL1	0.96791105	0.00152803
RP11-485G7.6	FOSL1	0.941928896	0.004960464
RP11-78A19.3	FOSL1	0.954246941	0.003092125
RP11-680G24.6	FOSL1	0.954961538	0.002997015
LA16c-359F1.1	FOSL1	0.969479663	0.001383022
Z69720.3	FOSL1	0.94370729	0.004664112
AC024028.1	FOSL2	0.982925596	0.000434814
RP11-498J9.2	FOSL2	0.995575786	2.93E-05
RP11-34P13.14	FOSL2	0.979957921	0.000598502
RP11-93O14.2	FOSL2	0.971954207	0.00116882
RP11-485G7.6	FOSL2	0.943887445	0.00463459
RP11-473M20.11	FOSL2	0.945749523	0.004334839
RP11-78A19.3	FOSL2	0.976490456	0.000822551
Z69720.3	FOSL2	0.977333274	0.000764848
RP11-91K8.5	FOXO1	0.940845743	0.005145342
CTA-315H11.2	FOXO4	-0.945166358	0.004427657
RP11-66D17.5	FOXO4	0.952172294	0.003376531
RP11-126K1.8	FOXO4	0.975249727	0.000911283
RP3-438O4.4	FOXO4	0.993614272	6.10E-05
LL21NC02-21A1.1	TF	0.811706863	0.049843557
NUP50-AS1	FOXO4	0.984876011	0.000341373
PSMD5-AS1	FOXO4	0.983112525	0.000425372
AC011558.5	TF	0.8134282	0.048966363
CCDC144NL-AS1	CASP5	-0.89395168	0.016273047
TOPORS-AS1	FOXO4	0.979407214	0.000631728
AC087294.2	FOXO4	0.999253587	8.35E-07
AP001062.8	FOXO4	0.992653214	8.08E-05
RP11-455F5.3	FOXO4	0.999237478	8.72E-07
RP11-326C3.2	FOXO4	0.987968594	0.000216261
AP006621.8	FOXO4	0.984880675	0.000341163
JHDM1D-AS1	FOXO4	0.999952664	3.36E-09
RP11-20I23.6	FOXO4	0.996489054	1.85E-05
RP11-160E2.19	FOXO4	0.94254657	0.004856521
AC005786.7	FOXO4	0.991678193	0.000103591
AC005944.2	FOXO4	0.966593879	0.001655313
CTB-191K22.5	FOXO4	0.978454103	0.000691337
RP11-20I23.8	FOXO4	0.999783183	7.05E-08
CDC37L1-AS1	FOXO4	0.994925531	3.86E-05
RP5-1142A6.10	FOXO4	0.985920896	0.000295936
RP11-556I13.1	FOXO4	0.999940819	5.25E-09
PSMD5-AS1	FPR1	0.932705289	0.006640493
TOPORS-AS1	FPR1	0.946804174	0.004169427
AC087294.2	FPR1	0.919295389	0.009507027
RP11-455F5.3	FPR1	0.919715661	0.009409623
RP11-326C3.2	FPR1	0.942369646	0.004886184
AP006621.8	FPR1	0.931049585	0.006967339
AC011558.5	CASP5	0.866973032	0.025367227
JHDM1D-AS1	FPR1	0.918245211	0.00975255
RP11-20I23.6	FPR1	0.946742925	0.004178947
RP11-160E2.19	FPR1	0.955927641	0.002870757
AC005786.7	FPR1	0.949673491	0.003735404
AC005944.2	FPR1	0.940428384	0.005217463
RP11-20I23.8	FPR1	0.923978245	0.008449284
RP5-1142A6.10	FPR1	0.970625637	0.001281607
RP11-556I13.1	FPR1	0.918236424	0.009754617
CTA-315H11.2	FPR2	-0.952050479	0.003393613
RP3-438O4.4	FPR2	0.922884568	0.00869089
NUP50-AS1	FPR2	0.92586551	0.008040165
PSMD5-AS1	FPR2	0.978927672	0.000661386
TOPORS-AS1	FPR2	0.934119304	0.006367429
AC087294.2	FPR2	0.95098268	0.00354516

AP001062.8	FPR2	0.932729904	0.006635691
RP11-455F5.3	FPR2	0.958301547	0.00257189
RP11-326C3.2	FPR2	0.987776177	0.00022322
AP006621.8	FPR2	0.982464297	0.000458555
JHDM1D-AS1	FPR2	0.955841371	0.002881922
RP11-20I23.6	FPR2	0.972023605	0.00116307
RP11-160E2.19	FPR2	0.997456857	9.69E-06
AC005786.7	FPR2	0.954192264	0.003099463
CCDC144NL-AS1	LRFN3	-0.881698253	0.020165121
AC005944.2	FPR2	0.956899338	0.002746467
RP11-20I23.8	FPR2	0.960435223	0.002317091
CDC37L1-AS1	FPR2	0.929148029	0.007352164
RP5-1142A6.10	FPR2	0.976771511	0.000803077
RP11-556I13.1	FPR2	0.955779969	0.002889883
AC011558.5	FPR2	0.935857543	0.006039433
CTA-315H11.2	FRMD4A	-0.923021914	0.008660367
RP11-66D17.5	FRMD4A	0.965792501	0.001735216
RP11-126K1.8	FRMD4A	0.982914722	0.000435366
RP3-438O4.4	FRMD4A	0.995104109	3.59E-05
NUP50-AS1	FRMD4A	0.99192382	9.76E-05
PSMD5-AS1	FRMD4A	0.977491311	0.00075426
TOPORS-AS1	FRMD4A	0.983412403	0.000410441
AC087294.2	FRMD4A	0.998786168	2.21E-06
AP001062.8	FRMD4A	0.997025017	1.33E-05
RP11-455F5.3	FRMD4A	0.997437316	9.84E-06
RP11-326C3.2	FRMD4A	0.978137136	0.000711752
AP006621.8	FRMD4A	0.977777969	0.000735241
JHDM1D-AS1	FRMD4A	0.996801201	1.53E-05
RP11-20I23.6	FRMD4A	0.992524354	8.36E-05
RP11-160E2.19	FRMD4A	0.924530716	0.008328497
AC005786.7	FRMD4A	0.992554707	8.29E-05
AC011558.5	LRFN3	0.844035804	0.034590344
CCDC144NL-AS1	WNT10B	-0.888268681	0.018028411
AC005944.2	FRMD4A	0.966166551	0.001697689
CTB-191K22.5	FRMD4A	0.985216823	0.000326198
RP11-20I23.8	FRMD4A	0.996461961	1.88E-05
CDC37L1-AS1	FRMD4A	0.993144193	7.03E-05
RP5-1142A6.10	FRMD4A	0.982764811	0.000443018
RP11-556I13.1	FRMD4A	0.996753303	1.58E-05
AC024028.1	FRMD4B	0.960519222	0.002307328
RP11-498J9.2	FRMD4B	0.98994004	0.000151295
RP11-34P13.14	FRMD4B	0.948045417	0.003978798
RP11-93O14.2	FRMD4B	0.961224314	0.00222618
RP11-485G7.6	FRMD4B	0.96112562	0.002237452
RP11-473M20.11	FRMD4B	0.917847317	0.009846368
RP11-78A19.3	FRMD4B	0.960327844	0.0023296
Z69720.3	FRMD4B	0.965413941	0.001773607
CCDC144NL-AS1	FRY	-0.918442306	0.009706239
CTA-315H11.2	FRY	-0.965651997	0.001749416
PSMD5-AS1	FRY	0.949955913	0.00369395
RP11-326C3.2	FRY	0.96180464	0.002160467
AP006621.8	FRY	0.956956031	0.002739299
RP11-20I23.6	FRY	0.927386422	0.007717662
RP11-160E2.19	FRY	0.990931789	0.000122976
RP5-1142A6.10	FRY	0.927409757	0.007712764
AC011558.5	WNT10B	0.853346546	0.030683798
RP3-337H4.8	RTP4	0.841078451	0.035877222
AC011558.5	FRY	0.952470303	0.003334922
CTC-1337H24.3	RTP4	0.903335075	0.013564538
RP11-498J9.2	FSCN1	0.979000597	0.000656832
RP11-34P13.14	FSCN1	0.949496365	0.003761518
RP11-118G23.2	SEPP1	-0.821682666	0.044860623
AC005943.6	SEPP1	0.844322103	0.034466937

CCDC144NL-AS1	EGF	-0.883806108	0.019467163
RP11-93O14.2	FSCN1	0.974831239	0.000942228
RP11-485G7.6	FSCN1	0.962418603	0.002092003
RP11-78A19.3	FSCN1	0.963057967	0.002021863
Z69720.3	FSCN1	0.968506914	0.001472104
RP11-498J9.2	FST	0.965749821	0.001739523
RP11-34P13.14	FST	0.917232289	0.009992241
RP11-93O14.2	FST	0.963805512	0.001941353
RP11-485G7.6	FST	0.970840713	0.001262999
RP11-78A19.3	FST	0.954739814	0.003026369
Z69720.3	FST	0.941858201	0.00497243
MIR210HG	FTH1P8	0.97911186	0.000649915
CTA-315H11.2	FTL	-0.923150961	0.008631736
RP11-66D17.5	FTL	0.966492095	0.001665359
RP11-126K1.8	FTL	0.976326245	0.000834036
RP3-438O4.4	FTL	0.994278043	4.90E-05
NUP50-AS1	FTL	0.992441109	8.55E-05
PSMD5-AS1	FTL	0.981590562	0.000505242
TOPORS-AS1	FTL	0.98831328	0.000204071
AC087294.2	FTL	0.99868462	2.59E-06
AP001062.8	FTL	0.995132284	3.55E-05
RP11-455F5.3	FTL	0.997105641	1.26E-05
RP11-326C3.2	FTL	0.982949076	0.000433622
AC011558.5	EGF	0.840435554	0.036159898
AP006621.8	FTL	0.981102942	0.000532274
JHDM1D-AS1	FTL	0.996886525	1.45E-05
RP11-20I23.6	FTL	0.99721131	1.17E-05
RP11-160E2.19	FTL	0.93896835	0.005473626
AC005786.7	FTL	0.998213682	4.78E-06
AC005944.2	FTL	0.975278607	0.000909167
CTB-191K22.5	FTL	0.985879213	0.000297687
RP11-20I23.8	FTL	0.997427269	9.92E-06
CDC37L1-AS1	FTL	0.993608573	6.11E-05
RP5-1142A6.10	FTL	0.991974705	9.63E-05
RP11-556I13.1	FTL	0.996856902	1.48E-05
CTA-315H11.2	FYB	-0.923768527	0.008495357
RP11-326C3.2	FYB	0.92764094	0.00766432
RP11-160E2.19	FYB	0.97789506	0.000727542
AC011558.5	FYB	0.980055714	0.000592695
CTA-315H11.2	FYN	-0.97653769	0.000819262
RP11-126K1.8	FYN	0.930354149	0.007106907
RP3-438O4.4	FYN	0.951139586	0.003522687
NUP50-AS1	FYN	0.940491962	0.005206445
PSMD5-AS1	FYN	0.984457575	0.000360473
TOPORS-AS1	FYN	0.946520324	0.004213636
CTA-315H11.2	NRP2	-0.824593275	0.043452864
AC087294.2	FYN	0.971945082	0.001169577
AP001062.8	FYN	0.953149676	0.003241012
RP11-455F5.3	FYN	0.978166015	0.00070988
RP11-326C3.2	FYN	0.998113633	5.33E-06
AP006621.8	FYN	0.990182392	0.000144105
JHDM1D-AS1	FYN	0.978572741	0.000683772
RP11-20I23.6	FYN	0.984528738	0.000357188
RP11-160E2.19	FYN	0.988312854	0.000204086
AC005786.7	FYN	0.965089647	0.001806826
AC005944.2	FYN	0.952911009	0.003273853
CTB-191K22.5	FYN	0.930548439	0.007067778
RP11-20I23.8	FYN	0.980684816	0.000556011
CDC37L1-AS1	FYN	0.958041303	0.002603864
RP11-160E2.19	NRP2	0.878633276	0.021200964
RP5-1142A6.10	FYN	0.979054264	0.000653491
RP11-556I13.1	FYN	0.978569284	0.000683992
RP3-339A18.6	FZD6	0.970026134	0.001334184

AC024028.1	FZD7	0.935597287	0.006088002
RP11-498J9.2	FZD7	0.993525465	6.27E-05
RP11-34P13.14	FZD7	0.972548618	0.001120024
RP11-93O14.2	FZD7	0.99561833	2.88E-05
RP11-485G7.6	FZD7	0.978278285	0.000702625
CCDC144NL-AS1	GIMAP8	-0.866887972	0.025398924
RP11-78A19.3	FZD7	0.996085569	2.30E-05
LA16c-359F1.1	FZD7	0.938148273	0.005620143
Z69720.3	FZD7	0.977811166	0.000733054
AC024028.1	G0S2	0.924786166	0.008272934
RP11-498J9.2	G0S2	0.971480887	0.001208412
RP11-34P13.14	G0S2	0.922342548	0.008811856
RP11-93O14.2	G0S2	0.938562087	0.005545973
RP11-485G7.6	G0S2	0.971550263	0.001202568
RP11-78A19.3	G0S2	0.950197248	0.003658708
Z69720.3	G0S2	0.954506956	0.003057349
RP11-156P1.3	G6PC3	0.949664085	0.003736788
LLNLR-284B4.1	GAB1	-0.969678119	0.001365185
AC024028.1	GAB2	0.983139992	0.000423993
RP11-498J9.2	GAB2	0.987579849	0.000230432
RP11-34P13.14	GAB2	0.987239546	0.000243205
RP11-93O14.2	GAB2	0.961431362	0.002202624
RP11-473M20.11	GAB2	0.942374758	0.004885326
RP11-78A19.3	GAB2	0.957799571	0.002633737
Z69720.3	GAB2	0.981689436	0.000499846
CCDC144NL-AS1	GABARAPL1	-0.930813257	0.007014616
LL21NC02-21A1.1	GIMAP8	0.818587292	0.046380658
CTA-315H11.2	GABARAPL1	-0.972855702	0.001095219
RP11-126K1.8	GABARAPL1	0.946874546	0.004158502
AC011558.5	GIMAP8	0.823077866	0.044183203
RP3-438O4.4	GABARAPL1	0.942492463	0.004865583
NUP50-AS1	GABARAPL1	0.945688179	0.004344557
PSMD5-AS1	GABARAPL1	0.991128108	0.000117717
TOPORS-AS1	GABARAPL1	0.934692975	0.006258244
AC087294.2	GABARAPL1	0.969933333	0.001342417
AP001062.8	GABARAPL1	0.957564948	0.002662893
RP11-455F5.3	GABARAPL1	0.977880524	0.000728496
RP11-326C3.2	GABARAPL1	0.992954468	7.43E-05
AP006621.8	GABARAPL1	0.995104486	3.59E-05
JHDM1D-AS1	GABARAPL1	0.973566331	0.001038873
RP11-20I23.6	GABARAPL1	0.978551814	0.000685104
RP11-160E2.19	GABARAPL1	0.979969935	0.000597787
AC005786.7	GABARAPL1	0.958423957	0.002556918
AC005944.2	GABARAPL1	0.961235235	0.002224935
CTB-191K22.5	GABARAPL1	0.937612465	0.005716894
RP11-20I23.8	GABARAPL1	0.976485731	0.000822881
CDC37L1-AS1	GABARAPL1	0.947026271	0.004134996
RP5-1142A6.10	GABARAPL1	0.971424363	0.001213184
RP11-556I13.1	GABARAPL1	0.973435284	0.001049153
CTA-315H11.2	GABBR1	-0.918311832	0.009736884
CTD-2139B15.2	GABBR1	-0.923908677	0.008464554
CTD-2531D15.5	GAL	0.949412856	0.003773861
CCDC144NL-AS1	C14orf64	-0.87686296	0.021810549
RP11-770G2.2	GAL	0.985864508	0.000298306
AC005943.6	GAL	0.917713409	0.00987804
CTA-315H11.2	GAL3ST4	-0.967040532	0.001611587
RP11-126K1.8	GAL3ST4	0.949267555	0.003795384
RP3-438O4.4	GAL3ST4	0.967730765	0.001545154
NUP50-AS1	GAL3ST4	0.960801465	0.002274673
PSMD5-AS1	GAL3ST4	0.99041445	0.000137384
TOPORS-AS1	GAL3ST4	0.963335278	0.001991809
AC087294.2	GAL3ST4	0.984854546	0.00034234
AP001062.8	GAL3ST4	0.970509131	0.001291743

RP11-455F5.3	GAL3ST4	0.989116265	0.000177039
RP11-326C3.2	GAL3ST4	0.999963833	1.96E-09
AP006621.8	GAL3ST4	0.994292789	4.88E-05
JHDM1D-AS1	GAL3ST4	0.988961287	0.000182107
RP11-20I23.6	GAL3ST4	0.993805094	5.74E-05
RP11-160E2.19	GAL3ST4	0.981319442	0.000520185
AC005786.7	GAL3ST4	0.979902092	0.00060183
AC005944.2	GAL3ST4	0.966044913	0.001709848
CTB-191K22.5	GAL3ST4	0.951724612	0.003439516
RP11-20I23.8	GAL3ST4	0.990803925	0.000126463
CDC37L1-AS1	GAL3ST4	0.972391545	0.001132818
RP5-1142A6.10	GAL3ST4	0.988734997	0.000189636
AC011558.5	C14orf64	0.828729457	0.041488408
RP11-556I13.1	GAL3ST4	0.988940918	0.000182779
AC024028.1	GAPT	0.965557458	0.001759004
RP11-473M20.11	GAPT	0.993461346	6.40E-05
CTD-2139B15.2	GAS2L1	0.943960465	0.00462265
LLNLR-284B4.1	GAS2L3	-0.93579324	0.006051416
RP11-77G23.2	GAS2L3	0.971241027	0.001228725
RP11-473M20.11	GAS7	0.952606991	0.003315921
RP11-498J9.2	GATA2	0.972545317	0.001120292
RP11-34P13.14	GATA2	0.987888748	0.000219135
RP11-93O14.2	GATA2	0.980359458	0.000574838
RP11-485G7.6	GATA2	0.924636654	0.008305433
RP11-78A19.3	GATA2	0.966651223	0.001649667
RP11-680G24.6	GATA2	0.922557435	0.008763801
LA16c-359F1.1	GATA2	0.920013754	0.009340831
Z69720.3	GATA2	0.987624303	0.000228789
CTD-2139B15.2	GATA5	0.918657576	0.00965578
RP11-91K8.5	GATA5	0.930734031	0.0070305
CTA-315H11.2	GATSL2	-0.942593654	0.004848642
RP11-66D17.5	GATSL2	0.923371224	0.008582973
RP11-126K1.8	GATSL2	0.951133356	0.003523578
RP3-438O4.4	GATSL2	0.988903703	0.000184009
NUP50-AS1	GATSL2	0.959469062	0.002430844
CCDC144NL-AS1	P2RY13	-0.867854345	0.025039916
PSMD5-AS1	GATSL2	0.953667534	0.003170315
TOPORS-AS1	GATSL2	0.966197171	0.001694635
AC087294.2	GATSL2	0.986125737	0.000287407
AP001062.8	GATSL2	0.973967289	0.001007732
RP11-455F5.3	GATSL2	0.985116858	0.000330614
RP11-326C3.2	GATSL2	0.972372309	0.00113439
AP006621.8	GATSL2	0.959605893	0.002414571
JHDM1D-AS1	GATSL2	0.990929088	0.000123049
RP11-20I23.6	GATSL2	0.979635136	0.000617869
AC005786.7	GATSL2	0.97183908	0.00117839
AC005944.2	GATSL2	0.923179429	0.008625426
CTB-191K22.5	GATSL2	0.950697725	0.003586152
RP11-20I23.8	GATSL2	0.988106772	0.000211332
CDC37L1-AS1	GATSL2	0.9914997	0.000108076
RP5-1142A6.10	GATSL2	0.961689826	0.002173391
RP11-556I13.1	GATSL2	0.991041223	0.00012003
CTD-2541M15.3	GBAS	0.920286875	0.009278018
RP11-160E2.19	GBAS	-0.934798509	0.006238258
AC011558.5	GBAS	-0.954324303	0.003081758
RP11-77G23.2	GBE1	0.929598651	0.007260058
LL21NC02-21A1.1	P2RY13	0.824095085	0.043692337
CTD-2541M15.3	GBE1	0.932442115	0.006691932
CTA-315H11.2	GBP1	-0.941385265	0.00505284
AC011558.5	P2RY13	0.812183281	0.049600051
CCDC144NL-AS1	KIAA1324	-0.875345975	0.022339463
PSMD5-AS1	GBP1	0.953871704	0.003142653
RP11-455F5.3	GBP1	0.924449179	0.00834627

RP11-326C3.2	GBP1	0.968748187	0.001449752
AP006621.8	GBP1	0.960223818	0.002341751
JHDM1D-AS1	GBP1	0.921566533	0.008986459
RP11-20I23.6	GBP1	0.941365335	0.005056242
RP11-160E2.19	GBP1	0.99320011	6.92E-05
AC005944.2	GBP1	0.920891686	0.009139653
RP11-20I23.8	GBP1	0.926895494	0.007821058
RP5-1142A6.10	GBP1	0.948280823	0.003943139
RP11-556I13.1	GBP1	0.921502796	0.009000874
AC011558.5	GBP1	0.958486784	0.00254925
RP11-160E2.19	GBP2	0.964906182	0.001825754
AC011558.5	GBP2	0.969764059	0.001357497
RP11-160E2.19	GCA	0.919059696	0.009561866
AC011558.5	GCA	0.960287002	0.002334367
RP11-118G23.2	GCDH	-0.946398172	0.004232731
RP11-680G24.6	GCDH	-0.920166473	0.009305683
CTA-315H11.2	GCET2	-0.968835501	0.001441705
RP11-126K1.8	GCET2	0.947727985	0.004027132
RP3-438O4.4	GCET2	0.968333597	0.001488265
NUP50-AS1	GCET2	0.95911949	0.002472664
AC011558.5	KIAA1324	0.819319806	0.046018816
CCDC144NL-AS1	GZMK	-0.887329245	0.018326888
PSMD5-AS1	GCET2	0.988868443	0.000185178
TOPORS-AS1	GCET2	0.962934384	0.002035328
AC087294.2	GCET2	0.984722877	0.000348303
AP001062.8	GCET2	0.969628117	0.001369669
RP11-455F5.3	GCET2	0.988948134	0.000182541
RP11-326C3.2	GCET2	0.999953143	3.29E-09
AP006621.8	GCET2	0.993226414	6.87E-05
JHDM1D-AS1	GCET2	0.989347855	0.000169598
RP11-20I23.6	GCET2	0.993423957	6.47E-05
RP11-160E2.19	GCET2	0.980373888	0.000573997
AC005786.7	GCET2	0.979003136	0.000656674
AC005944.2	GCET2	0.962851634	0.002044369
CTB-191K22.5	GCET2	0.949819459	0.003713951
RP11-20I23.8	GCET2	0.990932282	0.000122962
CDC37L1-AS1	GCET2	0.973256843	0.001063231
RP5-1142A6.10	GCET2	0.987550983	0.000231502
RP11-556I13.1	GCET2	0.989341022	0.000169815
RP11-66D17.5	GCLC	0.930700577	0.007037213
RP11-126K1.8	GCLC	0.956227476	0.002832116
RP3-438O4.4	GCLC	0.961277984	0.002220062
NUP50-AS1	GCLC	0.946652417	0.004193034
TOPORS-AS1	GCLC	0.930837677	0.007009724
AC011558.5	GZMK	0.854809744	0.030089995
AC087294.2	GCLC	0.952486994	0.003332599
AP001062.8	GCLC	0.958225562	0.002581205
RP11-455F5.3	GCLC	0.948546432	0.003903094
JHDM1D-AS1	GCLC	0.949231134	0.003800789
RP11-20I23.6	GCLC	0.926364036	0.007933746
AC005786.7	GCLC	0.929541554	0.007271697
CTB-191K22.5	GCLC	0.939016224	0.005465131
RMRP	GCLC	0.92714661	0.007768086
RP11-20I23.8	GCLC	0.944447322	0.00454343
CDC37L1-AS1	GCLC	0.953253218	0.003226815
RP11-556I13.1	GCLC	0.949191295	0.003806705
RP11-91K8.5	GCLM	0.972745395	0.001104098
RP3-339A18.6	GCNT1	0.963749581	0.001947321
CTA-315H11.2	GDAP1L1	-0.945741186	0.004336159
RP11-66D17.5	GDAP1L1	0.950244931	0.003651764
RP11-126K1.8	GDAP1L1	0.97284269	0.001096265
RP3-438O4.4	GDAP1L1	0.993698542	5.94E-05
NUP50-AS1	GDAP1L1	0.983525845	0.000404861

PSMD5-AS1	GDAP1L1	0.982245427	0.000470039
TOPORS-AS1	GDAP1L1	0.980052526	0.000592884
AC087294.2	GDAP1L1	0.998911004	1.78E-06
AP001062.8	GDAP1L1	0.991493281	0.000108239
CCDC144NL-AS1	SFN	-0.888393189	0.017989029
RP11-455F5.3	GDAP1L1	0.998826662	2.06E-06
RP11-326C3.2	GDAP1L1	0.988496209	0.000197745
AP006621.8	GDAP1L1	0.984286293	0.000368441
JHDM1D-AS1	GDAP1L1	0.999999212	9.32E-13
RP11-20I23.6	GDAP1L1	0.996735909	1.60E-05
RP11-160E2.19	GDAP1L1	0.943792601	0.00465012
AC005786.7	GDAP1L1	0.991761865	0.000101521
AC005944.2	GDAP1L1	0.965172813	0.001798278
CTB-191K22.5	GDAP1L1	0.976773127	0.000802966
RP11-20I23.8	GDAP1L1	0.999768356	8.05E-08
CDC37L1-AS1	GDAP1L1	0.995258828	3.37E-05
RP5-1142A6.10	GDAP1L1	0.986392451	0.000276488
RP11-556I13.1	GDAP1L1	1	0
RP11-118G23.2	GDAP2	0.922989099	0.008667655
RP11-66D17.5	GDAP2	-0.940135552	0.005268359
LL21NC02-21A1.1	GDAP2	-0.963329549	0.001992427
RP11-473M20.11	GDI1	0.932611374	0.006658827
RP11-77G23.2	GDPD1	0.967754913	0.001542855
CTD-2541M15.3	GDPD1	0.93257113	0.006666691
AC024028.1	GEM	0.93951441	0.005377116
RP11-498J9.2	GEM	0.983720039	0.000395398
RP11-34P13.14	GEM	0.994608568	4.35E-05
AC011558.5	SFN	0.846125455	0.033694391
CCDC144NL-AS1	F5	-0.889000809	0.01779743
RP11-93O14.2	GEM	0.980981084	0.000539139
RP11-485G7.6	GEM	0.929828879	0.007213218
RP11-78A19.3	GEM	0.971402081	0.001215067
Z69720.3	GEM	0.994158275	5.11E-05
RP3-337H4.8	GFI1B	0.937790822	0.005684599
CTD-2139B15.2	GFI1B	0.92528858	0.008164182
CTA-315H11.2	GFOD2	-0.917908033	0.009832024
RP11-66D17.5	GFOD2	0.97788664	0.000728094
RP11-126K1.8	GFOD2	0.987033681	0.000251098
RP3-438O4.4	GFOD2	0.994462099	4.59E-05
NUP50-AS1	GFOD2	0.99672494	1.61E-05
PSMD5-AS1	GFOD2	0.978964293	0.000659097
TOPORS-AS1	GFOD2	0.9790242	0.000655362
AC087294.2	GFOD2	0.997889211	6.68E-06
AP001062.8	GFOD2	0.999104785	1.20E-06
RP11-455F5.3	GFOD2	0.995814991	2.62E-05
RP11-326C3.2	GFOD2	0.972600239	0.001115835
AP006621.8	GFOD2	0.976824994	0.000799398
JHDM1D-AS1	GFOD2	0.994207755	5.02E-05
RP11-20I23.6	GFOD2	0.990623764	0.000131459
RP11-160E2.19	GFOD2	0.919848784	0.009378872
AC005786.7	GFOD2	0.99312093	7.08E-05
AC011558.5	F5	0.851789079	0.03132188
CCDC144NL-AS1	MAGEE1	-0.893239038	0.016488429
AC005944.2	GFOD2	0.976449094	0.000825437
RP11-66D17.5	MAGEE1	0.914498519	0.010653225
CTB-191K22.5	GFOD2	0.993883965	5.60E-05
RP11-20I23.8	GFOD2	0.994455298	4.60E-05
CDC37L1-AS1	GFOD2	0.99347156	6.38E-05
RP5-1142A6.10	GFOD2	0.981357857	0.000518055
RP11-556I13.1	GFOD2	0.994132617	5.15E-05
RP11-118G23.2	GFPT1	0.930348776	0.00710799
RP11-680G24.6	GFPT1	0.961676113	0.002174937
LA16c-359F1.1	GFPT1	0.945802859	0.004326398

AC024028.1	GGT1	0.960017218	0.002365976
RP11-498J9.2	GGT1	0.997756856	7.54E-06
RP11-34P13.14	GGT1	0.962944752	0.002034197
RP11-93O14.2	GGT1	0.975608289	0.000885177
RP11-485G7.6	GGT1	0.973022845	0.001081834
RP11-78A19.3	GGT1	0.976864475	0.000796687
Z69720.3	GGT1	0.978422199	0.000693379
AC024028.1	GGT5	0.959749096	0.002397597
RP11-498J9.2	GGT5	0.999386789	5.64E-07
RP11-34P13.14	GGT5	0.972563721	0.001118798
RP11-93O14.2	GGT5	0.981710422	0.000498704
RP11-485G7.6	GGT5	0.969954099	0.001340572
AC011558.5	MAGEE1	0.875062446	0.022438989
RP11-78A19.3	GGT5	0.98103213	0.000536258
Z69720.3	GGT5	0.984626638	0.000352694
RP11-66D17.5	MME	0.898082369	0.015051486
AC024028.1	GGTA1	0.952062875	0.003391873
RP11-498J9.2	GGTA1	0.997499393	9.37E-06
RP11-34P13.14	GGTA1	0.965394434	0.001775597
RP11-93O14.2	GGTA1	0.981106388	0.000532081
RP11-485G7.6	GGTA1	0.975045228	0.000926341
RP11-78A19.3	GGTA1	0.979568818	0.000621885
Z69720.3	GGTA1	0.980932947	0.000541863
RP11-118G23.2	GIGYF2	0.995727492	2.73E-05
RP11-680G24.6	GIGYF2	0.930387126	0.007100258
LL21NC02-21A1.1	GIGYF2	-0.924557569	0.008322648
CTA-315H11.2	GIMAP2	-0.958903218	0.002498713
RP11-66D17.5	GIMAP2	0.937787303	0.005685235
RP11-126K1.8	GIMAP2	0.966571677	0.001657502
RP3-438O4.4	GIMAP2	0.985262635	0.000324184
NUP50-AS1	GIMAP2	0.977320809	0.000765686
PSMD5-AS1	GIMAP2	0.989565489	0.00016275
TOPORS-AS1	GIMAP2	0.973708162	0.001027804
AC087294.2	GIMAP2	0.995735398	2.72E-05
AP001062.8	GIMAP2	0.985774832	0.000302094
RP11-455F5.3	GIMAP2	0.997490351	9.44E-06
AC011558.5	MME	0.849563282	0.032244527
CCDC144NL-AS1	TTN	-0.885876537	0.018793066
RP11-326C3.2	GIMAP2	0.995619242	2.87E-05
AP006621.8	GIMAP2	0.991929066	9.74E-05
JHDM1D-AS1	GIMAP2	0.997923077	6.47E-06
RP11-20I23.6	GIMAP2	0.998064446	5.62E-06
RP11-160E2.19	GIMAP2	0.962418809	0.00209198
AC005786.7	GIMAP2	0.989302543	0.000171041
AC005944.2	GIMAP2	0.970853662	0.001261884
CTB-191K22.5	GIMAP2	0.970696071	0.001275498
RP11-20I23.8	GIMAP2	0.998706253	2.51E-06
CDC37L1-AS1	GIMAP2	0.988714883	0.000190312
RP5-1142A6.10	GIMAP2	0.98964115	0.000160403
RP11-556I13.1	GIMAP2	0.997909209	6.55E-06
CTA-315H11.2	GIMAP4	-0.944907605	0.00446915
RP11-66D17.5	GIMAP4	0.951316418	0.003497444
RP11-126K1.8	GIMAP4	0.973120051	0.001074087
RP3-438O4.4	GIMAP4	0.993303314	6.71E-05
NUP50-AS1	GIMAP4	0.984501954	0.000358423
PSMD5-AS1	GIMAP4	0.983639409	0.000399314
TOPORS-AS1	GIMAP4	0.981001758	0.000537971
AC087294.2	GIMAP4	0.999086445	1.25E-06
AP001062.8	GIMAP4	0.991855772	9.92E-05
RP11-455F5.3	GIMAP4	0.999043149	1.37E-06
AC011558.5	TTN	0.841242661	0.035805187
CCDC144NL-AS1	ANKRD55	-0.894107019	0.016226279
RP11-326C3.2	GIMAP4	0.989269534	0.000172097

AP006621.8	GIMAP4	0.985408932	0.000317796
JHDM1D-AS1	GIMAP4	0.999932688	6.80E-09
RP11-20I23.6	GIMAP4	0.997560177	8.92E-06
RP11-160E2.19	GIMAP4	0.946026156	0.004291146
AC005786.7	GIMAP4	0.992889264	7.57E-05
AC005944.2	GIMAP4	0.967685504	0.001549468
CTB-191K22.5	GIMAP4	0.977731635	0.000738299
RP11-20I23.8	GIMAP4	0.999925267	8.38E-09
CDC37L1-AS1	GIMAP4	0.994768068	4.10E-05
RP5-1142A6.10	GIMAP4	0.988128321	0.000210569
RP11-556I13.1	GIMAP4	0.999927464	7.89E-09
CTA-315H11.2	GIMAP5	-0.930803507	0.00701657
RP11-66D17.5	GIMAP5	0.958686474	0.002524954
RP11-126K1.8	GIMAP5	0.971370019	0.00121778
RP3-438O4.4	GIMAP5	0.993341457	6.64E-05
NUP50-AS1	GIMAP5	0.98840912	0.000200744
PSMD5-AS1	GIMAP5	0.982702404	0.000446222
TOPORS-AS1	GIMAP5	0.988116817	0.000210976
AC087294.2	GIMAP5	0.998404754	3.82E-06
AP001062.8	GIMAP5	0.992346137	8.76E-05
RP11-455F5.3	GIMAP5	0.997370466	1.04E-05
AC011558.5	ANKRD55	0.867243904	0.025266413
RP11-326C3.2	GIMAP5	0.98728865	0.000241341
RP11-126K1.8	ANKRD58	0.884605581	0.019205519
RP3-438O4.4	ANKRD58	0.913463201	0.010908906
AP006621.8	GIMAP5	0.983200471	0.000420966
PSMD5-AS1	ANKRD58	0.897692051	0.01516495
JHDM1D-AS1	GIMAP5	0.997917744	6.50E-06
AC087294.2	ANKRD58	0.9136229	0.010869275
RP11-20I23.6	GIMAP5	0.998828881	2.06E-06
RP11-455F5.3	ANKRD58	0.905973746	0.012845765
RP11-326C3.2	ANKRD58	0.892924647	0.01658388
AP006621.8	ANKRD58	0.889151327	0.01775012
JHDM1D-AS1	ANKRD58	0.903530179	0.013510745
RP11-160E2.19	GIMAP5	0.946765623	0.004175418
RP11-160E2.19	ANKRD58	0.872542829	0.023332704
AC005786.7	GIMAP5	0.997830964	7.05E-06
AC005944.2	GIMAP5	0.973171095	0.00107003
CTB-191K22.5	GIMAP5	0.9810151	0.000537218
RP11-20I23.8	ANKRD58	0.907740601	0.012375049
CDC37L1-AS1	ANKRD58	0.905354924	0.013012635
LL21NC02-21A1.1	ANKRD58	0.836060759	0.038111091
RP11-20I23.8	GIMAP5	0.998453242	3.59E-06
RP11-556I13.1	ANKRD58	0.903485974	0.013522924
RP11-118G23.2	SLC6A9	-0.817636063	0.046852506
RP11-156P1.3	SLC6A9	-0.842960042	0.035055898
RP11-66D17.5	SLC6A9	0.893385473	0.016444061
RP11-126K1.8	SLC6A9	0.897061868	0.015349009
NUP50-AS1	SLC6A9	0.858299291	0.028696026
AP001062.8	SLC6A9	0.846085112	0.033711583
AC005944.2	SLC6A9	0.835055569	0.038566204
CTB-191K22.5	SLC6A9	0.877828969	0.021476894
CDC37L1-AS1	GIMAP5	0.993642819	6.05E-05
CCDC144NL-AS1	ACSL6	-0.869219256	0.024536994
RP5-1142A6.10	GIMAP5	0.993719341	5.90E-05
RP11-556I13.1	GIMAP5	0.997909669	6.55E-06
CTA-315H11.2	GIMAP7	-0.955342166	0.002946952
RP11-66D17.5	GIMAP7	0.939096686	0.005450869
RP11-126K1.8	GIMAP7	0.96722885	0.001593325
RP3-438O4.4	GIMAP7	0.987063054	0.000249964
NUP50-AS1	GIMAP7	0.978371062	0.000696657
PSMD5-AS1	GIMAP7	0.987896682	0.000218849
TOPORS-AS1	GIMAP7	0.976777477	0.000802667

AC087294.2	GIMAP7	0.996555909	1.78E-05
AP001062.8	GIMAP7	0.986797799	0.000260297
RP11-455F5.3	GIMAP7	0.997984125	6.09E-06
RP11-326C3.2	GIMAP7	0.995047537	3.67E-05
AP006621.8	GIMAP7	0.990483255	0.000135422
JHDM1D-AS1	GIMAP7	0.998620754	2.85E-06
RP11-20I23.6	GIMAP7	0.998359514	4.03E-06
RP11-160E2.19	GIMAP7	0.959623752	0.002412451
AC005786.7	GIMAP7	0.990357299	0.000139024
RMRP	ACSL6	0.813954689	0.048699507
AC005944.2	GIMAP7	0.968620747	0.001461537
CTB-191K22.5	GIMAP7	0.970869375	0.00126053
LL21NC02-21A1.1	ACSL6	0.829977614	0.040903947
RP11-20I23.8	GIMAP7	0.999167879	1.04E-06
CDC37L1-AS1	GIMAP7	0.989714	0.000158159
CCDC144NL-AS1	FCRL3	-0.904925718	0.013128985
RP5-1142A6.10	GIMAP7	0.990008035	0.00014926
RP11-66D17.5	FCRL3	0.893150938	0.01651515
RP11-556I13.1	GIMAP7	0.998612401	2.89E-06
CTA-315H11.2	GIMAP8	-0.947493552	0.004063012
RP11-66D17.5	GIMAP8	0.950011973	0.003685749
RP11-126K1.8	GIMAP8	0.973420486	0.001050317
RP3-438O4.4	GIMAP8	0.989865026	0.000153556
NUP50-AS1	GIMAP8	0.984783594	0.000345547
PSMD5-AS1	GIMAP8	0.988492267	0.00019788
TOPORS-AS1	GIMAP8	0.979685472	0.000614828
AC087294.2	GIMAP8	0.998511606	3.32E-06
AP001062.8	GIMAP8	0.991371953	0.000111344
RP11-455F5.3	GIMAP8	0.999200616	9.58E-07
RP11-326C3.2	GIMAP8	0.992169977	9.17E-05
AP006621.8	GIMAP8	0.989826666	0.000154719
JHDM1D-AS1	GIMAP8	0.999079872	1.27E-06
RP11-20I23.6	GIMAP8	0.998807498	2.13E-06
RP11-160E2.19	GIMAP8	0.953922215	0.003135828
AC005786.7	GIMAP8	0.993404425	6.51E-05
AC005944.2	GIMAP8	0.973752009	0.001024394
CTB-191K22.5	GIMAP8	0.978202543	0.000707515
RP11-20I23.8	GIMAP8	0.999738684	1.02E-07
AC011558.5	FCRL3	0.897357652	0.015262486
CCDC144NL-AS1	RNF175	-0.868470678	0.024812218
CDC37L1-AS1	GIMAP8	0.991542941	0.00010698
RP5-1142A6.10	GIMAP8	0.991014459	0.000120747
RP11-556I13.1	GIMAP8	0.999051076	1.35E-06
AC011558.5	GINS1	-0.939369297	0.005402682
AC011558.5	GINS3	-0.944661155	0.004508847
LLNLR-284B4.1	GINS4	-0.92351961	0.008550199
AC011558.5	GINS4	-0.935397522	0.006125412
RP11-160E2.19	GLRX2	-0.943437375	0.004708515
AC011558.5	GLRX2	-0.936022383	0.006008769
CTA-315H11.2	GLRX5	-0.93090586	0.006996073
RP11-66D17.5	GLRX5	0.969030846	0.001423782
RP11-126K1.8	GLRX5	0.986942065	0.000254651
RP3-438O4.4	GLRX5	0.994157562	5.11E-05
NUP50-AS1	GLRX5	0.993387639	6.54E-05
PSMD5-AS1	GLRX5	0.982113039	0.000477054
TOPORS-AS1	GLRX5	0.976735552	0.000805556
AC087294.2	GLRX5	0.999289051	7.58E-07
AP001062.8	GLRX5	0.998487874	3.43E-06
RP11-455F5.3	GLRX5	0.998379555	3.94E-06
RP11-326C3.2	GLRX5	0.978329432	0.000699332
LL21NC02-21A1.1	RNF175	0.814508064	0.048419753
AP006621.8	GLRX5	0.981451233	0.000512894
JHDM1D-AS1	GLRX5	0.997024656	1.33E-05

RP11-20I23.6	GLRX5	0.992268052	8.94E-05
RP11-160E2.19	GLRX5	0.926291682	0.007949149
AC005786.7	GLRX5	0.991263538	0.000114155
AC005944.2	GLRX5	0.973124409	0.00107374
PSMD5-AS1	NEDD4L	0.865386746	0.025961447
TOPORS-AS1	NEDD4L	0.883082022	0.019705597
CTB-191K22.5	GLRX5	0.989652298	0.000160058
RP11-20I23.8	GLRX5	0.997038771	1.31E-05
RP11-455F5.3	NEDD4L	0.912687709	0.011102345
RP11-326C3.2	NEDD4L	0.847059447	0.033297517
AP006621.8	NEDD4L	0.863020819	0.026859854
JHDM1D-AS1	NEDD4L	0.908549159	0.012162471
RP11-20I23.6	NEDD4L	0.880141746	0.02068806
AC005786.7	NEDD4L	0.889434618	0.017661241
AC005944.2	NEDD4L	0.855395481	0.029853826
CDC37L1-AS1	GLRX5	0.993812545	5.73E-05
RP5-1142A6.10	GLRX5	0.98102535	0.00053664
RP11-20I23.8	NEDD4L	0.90386467	0.013418761
CDC37L1-AS1	NEDD4L	0.916375796	0.010197119
LL21NC02-21A1.1	NEDD4L	0.867342575	0.025229736
RP5-1142A6.10	NEDD4L	0.850006475	0.032059805
RP11-556I13.1	NEDD4L	0.908369119	0.012209651
RP11-118G23.2	TMEM37	-0.870462006	0.024083308
CCDC144NL-AS1	LTBP2	-0.876501783	0.021935929
RP11-556I13.1	GLRX5	0.996954531	1.39E-05
RP11-680G24.6	GLS	0.925696664	0.008076365
CTA-315H11.2	GLT1D1	-0.957383065	0.002685604
RP11-66D17.5	GLT1D1	0.931200409	0.006937248
RP11-126K1.8	GLT1D1	0.961040462	0.002247201
RP3-438O4.4	GLT1D1	0.981905098	0.000488176
NUP50-AS1	GLT1D1	0.973945926	0.001009379
PSMD5-AS1	GLT1D1	0.989225164	0.00017352
TOPORS-AS1	GLT1D1	0.975496168	0.0008933
AC087294.2	GLT1D1	0.993596706	6.14E-05
AP001062.8	GLT1D1	0.982197675	0.000472563
RP11-455F5.3	GLT1D1	0.995730879	2.73E-05
RP11-326C3.2	GLT1D1	0.997697074	7.95E-06
AP006621.8	GLT1D1	0.992140123	9.24E-05
JHDM1D-AS1	GLT1D1	0.996228158	2.13E-05
RP11-20I23.6	GLT1D1	0.998420036	3.74E-06
RP11-160E2.19	GLT1D1	0.968532457	0.00146973
AC005786.7	GLT1D1	0.989166267	0.000175419
AC005944.2	GLT1D1	0.96917563	0.001410569
CTB-191K22.5	GLT1D1	0.965503692	0.001764468
RP11-20I23.8	GLT1D1	0.99727657	1.11E-05
CDC37L1-AS1	GLT1D1	0.984990985	0.000336215
AC011558.5	LTBP2	0.85428783	0.030301172
CCDC144NL-AS1	MGAM	-0.876557992	0.021916394
RP5-1142A6.10	GLT1D1	0.99217287	9.17E-05
RP11-556I13.1	GLT1D1	0.996220666	2.14E-05
CTA-315H11.2	GLUL	-0.967142991	0.001601639
RP11-126K1.8	GLUL	0.933961586	0.006397609
RP3-438O4.4	GLUL	0.950041277	0.003681466
NUP50-AS1	GLUL	0.945445387	0.004383126
PSMD5-AS1	GLUL	0.987133904	0.00024724
TOPORS-AS1	GLUL	0.950981117	0.003545384
AC087294.2	GLUL	0.972389554	0.001132981
AP001062.8	GLUL	0.95564959	0.002906821
RP11-455F5.3	GLUL	0.978500164	0.000688395
RP11-326C3.2	GLUL	0.997930212	6.42E-06
AP006621.8	GLUL	0.991798372	0.000100624
JHDM1D-AS1	GLUL	0.977472255	0.000755533
RP11-20I23.6	GLUL	0.98583975	0.000299349

RP11-160E2.19	GLUL	0.989769125	0.000156471
AC005786.7	GLUL	0.968550578	0.001468046
AC005944.2	GLUL	0.959565503	0.002419369
CTB-191K22.5	GLUL	0.934830664	0.006232175
RP11-20I23.8	GLUL	0.980187746	0.0005849
CDC37L1-AS1	GLUL	0.955277809	0.002955388
RP5-1142A6.10	GLUL	0.983379773	0.000412052
AC011558.5	MGAM	0.829625821	0.041068285
CCDC144NL-AS1	ITLN1	-0.851350656	0.031502617
RP11-556I13.1	GLUL	0.977435556	0.000757987
RP11-66D17.5	GLYCTK	0.991895634	9.83E-05
RP11-126K1.8	GLYCTK	0.973955228	0.001008662
RP3-438O4.4	GLYCTK	0.98227987	0.000468222
NUP50-AS1	GLYCTK	0.995515939	3.01E-05
PSMD5-AS1	GLYCTK	0.960175781	0.002347373
TOPORS-AS1	GLYCTK	0.978002364	0.000720522
AC087294.2	GLYCTK	0.981871881	0.000489964
AP001062.8	GLYCTK	0.988686716	0.000191262
RP11-455F5.3	GLYCTK	0.976529154	0.000819856
RP11-326C3.2	GLYCTK	0.946733272	0.004180448
AP006621.8	GLYCTK	0.95356974	0.003183607
JHDM1D-AS1	GLYCTK	0.973827005	0.001018574
RP11-20I23.6	GLYCTK	0.976134462	0.000847549
RP11-160E2.19	ITLN1	0.913555364	0.010886026
AC005786.7	GLYCTK	0.989449131	0.000166394
AC005944.2	GLYCTK	0.977911463	0.000726467
CTB-191K22.5	GLYCTK	0.994193302	5.05E-05
RMRP	ITLN1	0.83059526	0.040616163
RP11-20I23.8	GLYCTK	0.97519699	0.000915155
CDC37L1-AS1	GLYCTK	0.978841231	0.000666804
LL21NC02-21A1.1	ITLN1	0.827990877	0.041836079
RP5-1142A6.10	GLYCTK	0.97543455	0.00089778
RP11-556I13.1	GLYCTK	0.973732974	0.001025873
CCDC144NL-AS1	CA4	-0.885242236	0.018998374
AC011558.5	GMNN	-0.960785116	0.002276558
CTA-315H11.2	GNA11	0.919182706	0.009533226
RP11-326C3.2	GNA11	-0.925742092	0.008066618
RP11-160E2.19	GNA11	-0.973306302	0.00105932
AC011558.5	GNA11	-0.985838341	0.000299409
AC024028.1	GNA14	0.960826149	0.002271828
RP11-498J9.2	GNA14	0.999447022	4.59E-07
RP11-34P13.14	GNA14	0.974150159	0.000993685
RP11-93O14.2	GNA14	0.983749998	0.000393948
RP11-485G7.6	GNA14	0.968736764	0.001450807
RP11-78A19.3	GNA14	0.983159465	0.000423017
Z69720.3	GNA14	0.983481995	0.000407013
RMRP	GNA15	-0.926046441	0.008001463
RP11-498J9.2	GNAI1	0.922166216	0.008851385
RP11-34P13.14	GNAI1	0.966958875	0.001619538
RP11-93O14.2	GNAI1	0.957206356	0.00270776
RP11-78A19.3	GNAI1	0.940037587	0.005285439
RP11-680G24.6	GNAI1	0.970284707	0.001311379
LA16c-359F1.1	GNAI1	0.937373565	0.005760293
Z69720.3	GNAI1	0.949683527	0.003733927
RP11-34P13.14	GNAQ	0.962288803	0.002106386
RP11-93O14.2	GNAQ	0.932524537	0.006675801
AC011558.5	CA4	0.859096296	0.02838204
CCDC144NL-AS1	MTMR9LP	-0.911779438	0.011330997
RP11-680G24.6	GNAQ	0.956838928	0.002754115
RP11-66D17.5	MTMR9LP	0.905795329	0.012893769
Z69720.3	GNAQ	0.936730153	0.005877973
RP11-680G24.6	GNAQP1	0.952230514	0.003368382
CTA-315H11.2	GNAS	-0.949854079	0.003708871

RP11-66D17.5	GNAS	0.947171339	0.004112582
RP11-126K1.8	GNAS	0.971865796	0.001176166
RP3-438O4.4	GNAS	0.990157035	0.000144849
NUP50-AS1	GNAS	0.982908617	0.000435677
PSMD5-AS1	GNAS	0.987260892	0.000242394
TOPORS-AS1	GNAS	0.978997447	0.000657029
AC087294.2	GNAS	0.998311541	4.27E-06
AP001062.8	GNAS	0.990367849	0.000138721
RP11-455F5.3	GNAS	0.999056569	1.33E-06
RP11-326C3.2	GNAS	0.992439619	8.55E-05
AP006621.8	GNAS	0.989108211	0.000177301
JHDM1D-AS1	GNAS	0.999431205	4.85E-07
RP11-20I23.6	GNAS	0.99844796	3.61E-06
RP11-160E2.19	GNAS	0.95353407	0.003188462
AC005786.7	GNAS	0.992342671	8.77E-05
AC005944.2	GNAS	0.970671404	0.001277636
CTB-191K22.5	GNAS	0.97608076	0.000851353
AC011558.5	MTMR9LP	0.868554103	0.024781473
RP11-20I23.8	GNAS	0.999859208	2.97E-08
CDC37L1-AS1	GNAS	0.992123637	9.28E-05
RP5-1142A6.10	GNAS	0.98985091	0.000153983
RP11-556I13.1	GNAS	0.999414466	5.14E-07
NUP50-AS1	GNGT2	0.922861235	0.008696081
PSMD5-AS1	GNGT2	0.920120798	0.009316188
AC005944.2	GNGT2	0.962888193	0.002040373
CTB-191K22.5	GNGT2	0.924024513	0.008439136
RP5-1142A6.10	GNGT2	0.924704526	0.008290672
AC024028.1	GNLY	0.944604549	0.004517989
RP11-498J9.2	GNLY	0.996508247	1.83E-05
RP11-34P13.14	GNLY	0.963192775	0.002007225
RP11-93O14.2	GNLY	0.978744697	0.00067288
RP11-485G7.6	GNLY	0.980808208	0.000548953
RP11-78A19.3	GNLY	0.978867645	0.000665146
Z69720.3	GNLY	0.984283245	0.000368583
RP3-339A18.6	GNS	0.937030445	0.005822905
RP3-339A18.6	GOLGA6L4	0.954505385	0.003057559
RP4-784A16.3	GOLIM4	0.946208548	0.004262457
CTA-315H11.2	GPA33	-0.964994054	0.001816676
RP11-126K1.8	GPA33	0.952842961	0.003283246
RP3-438O4.4	GPA33	0.969592438	0.001372872
CCDC144NL-AS1	TOX2	-0.895471433	0.015818281
NUP50-AS1	GPA33	0.964578851	0.001859766
RP11-66D17.5	TOX2	0.905875917	0.012872076
PSMD5-AS1	GPA33	0.99207595	9.39E-05
TOPORS-AS1	GPA33	0.964993542	0.001816729
AC087294.2	GPA33	0.986528267	0.000271009
AP001062.8	GPA33	0.973353378	0.001055604
RP11-455F5.3	GPA33	0.990494105	0.000135114
RP11-326C3.2	GPA33	0.999692744	1.42E-07
AP006621.8	GPA33	0.995270683	3.35E-05
JHDM1D-AS1	GPA33	0.989947723	0.000151065
RP11-20I23.6	GPA33	0.994968627	3.79E-05
RP11-160E2.19	GPA33	0.980375637	0.000573895
AC005786.7	GPA33	0.982169566	0.000474052
AC005944.2	GPA33	0.970174573	0.001321068
CTB-191K22.5	GPA33	0.956186695	0.002837356
RP11-20I23.8	GPA33	0.991917847	9.77E-05
CDC37L1-AS1	GPA33	0.974027182	0.00100312
RP5-1142A6.10	GPA33	0.990226688	0.00014281
RP11-556I13.1	GPA33	0.989916861	0.000151992
CCDC144NL-AS1	GPCPD1	-0.959948419	0.00237407
CTA-315H11.2	GPCPD1	-0.929329447	0.007315015
PSMD5-AS1	GPCPD1	0.934563952	0.00628272

AC011558.5	TOX2	0.884669321	0.019184732
CCDC144NL-AS1	SLC14A1	-0.864022773	0.026477613
RP11-326C3.2	GPCPD1	0.921919951	0.008906734
AP006621.8	GPCPD1	0.939605075	0.005361174
RP11-160E2.19	GPCPD1	0.920718698	0.009179125
CTD-2139B15.2	GPNMB	0.97682321	0.000799521
RP11-91K8.5	GPNMB	0.963457603	0.001978622
CTA-315H11.2	GPR114	-0.94837524	0.003928881
PSMD5-AS1	GPR114	0.940444907	0.005214598
RP11-326C3.2	GPR114	0.958301409	0.002571907
AP006621.8	GPR114	0.948471806	0.003914325
RP11-20I23.6	GPR114	0.923599966	0.008532476
RP11-160E2.19	GPR114	0.990570267	0.000132961
RP5-1142A6.10	GPR114	0.928264789	0.007534338
AC011558.5	GPR114	0.965781975	0.001736277
CTA-315H11.2	GPR146	-0.944555724	0.004525882
RP11-66D17.5	GPR146	0.953977312	0.003128392
RP11-126K1.8	GPR146	0.977870943	0.000729125
RP3-438O4.4	GPR146	0.993023206	7.28E-05
NUP50-AS1	GPR146	0.986332776	0.000278913
PSMD5-AS1	GPR146	0.984535482	0.000356878
TOPORS-AS1	GPR146	0.978657676	0.000678382
LL21NC02-21A1.1	SLC14A1	0.833429669	0.03930771
AC087294.2	GPR146	0.999496312	3.80E-07
AP001062.8	GPR146	0.993809022	5.74E-05
CCDC144NL-AS1	PBX4	-0.891349214	0.017066179
RP11-455F5.3	GPR146	0.99964913	1.85E-07
RP11-326C3.2	GPR146	0.987702871	0.000225899
AP006621.8	GPR146	0.985978129	0.000293541
JHDM1D-AS1	GPR146	0.999726541	1.12E-07
RP11-20I23.6	GPR146	0.996315759	2.03E-05
RP11-160E2.19	GPR146	0.942045583	0.004940746
AC005786.7	GPR146	0.99161143	0.000105257
AC005944.2	GPR146	0.968675717	0.001456448
CTB-191K22.5	GPR146	0.980194628	0.000584495
RP11-20I23.8	GPR146	0.999700603	1.34E-07
CDC37L1-AS1	GPR146	0.99401051	5.37E-05
RP5-1142A6.10	GPR146	0.985745397	0.000303342
RP11-556I13.1	GPR146	0.999697735	1.37E-07
RP5-1033H22.2	GPR153	0.980445861	0.000569808
RP11-21J18.1	GPR153	0.955195664	0.002966172
RP11-298J23.8	GPR153	0.967036421	0.001611987
RP11-165D6.1	GPR153	0.990085443	0.00014696
RP11-770G2.2	GPR161	0.945964635	0.004300844
AC005943.6	GPR161	0.93381347	0.006426015
AC024028.1	GPR162	0.939921297	0.00530575
RP11-498J9.2	GPR162	0.992912703	7.52E-05
RP11-34P13.14	GPR162	0.951709692	0.003441625
AC011558.5	PBX4	0.848174172	0.032826748
CCDC144NL-AS1	NPAS2	-0.903341754	0.013562695
RP11-93O14.2	GPR162	0.974875364	0.000938941
RP11-66D17.5	NPAS2	0.897866271	0.015114254
RP11-485G7.6	GPR162	0.981176646	0.000528143
RP11-78A19.3	GPR162	0.972927833	0.001089433
Z69720.3	GPR162	0.975070909	0.000924443
CTA-315H11.2	GPR52	-0.945615714	0.004356051
RP11-66D17.5	GPR52	0.942747512	0.004822939
RP11-126K1.8	GPR52	0.966051535	0.001709185
RP3-438O4.4	GPR52	0.994439336	4.63E-05
NUP50-AS1	GPR52	0.975781733	0.000872684
PSMD5-AS1	GPR52	0.971184873	0.001233505
TOPORS-AS1	GPR52	0.975403756	0.000900023
AC087294.2	GPR52	0.995501212	3.03E-05

AP001062.8	GPR52	0.98640686	0.000275904
RP11-455F5.3	GPR52	0.994749213	4.13E-05
RP11-326C3.2	GPR52	0.982137724	0.000475742
AP006621.8	GPR52	0.974631879	0.00095715
JHDM1D-AS1	GPR52	0.99804455	5.73E-06
RP11-20I23.6	GPR52	0.990859209	0.000124949
RP11-160E2.19	GPR52	0.930895502	0.006998146
AC005786.7	GPR52	0.985106855	0.000331057
AC005944.2	GPR52	0.949366964	0.003780652
AC011558.5	NPAS2	0.892388287	0.016747334
CCDC144NL-AS1	LRRN3	-0.87074527	0.023980462
CTB-191K22.5	GPR52	0.968840751	0.001441222
RP11-20I23.8	GPR52	0.99662864	1.70E-05
CDC37L1-AS1	GPR52	0.996686502	1.65E-05
RP5-1142A6.10	GPR52	0.976781055	0.00080242
RP11-556I13.1	GPR52	0.998095304	5.44E-06
AC024028.1	GPR65	0.985573581	0.000310681
RP11-498J9.2	GPR65	0.984261847	0.000369585
RP11-34P13.14	GPR65	0.990581645	0.00013264
RP11-93O14.2	GPR65	0.959272368	0.002454332
RP11-473M20.11	GPR65	0.947557088	0.004053273
RP11-78A19.3	GPR65	0.95780922	0.002632542
Z69720.3	GPR65	0.979084573	0.000651608
AC024028.1	GPR68	0.945846257	0.004319535
RP11-498J9.2	GPR68	0.99793799	6.37E-06
RP11-34P13.14	GPR68	0.975216699	0.000913707
RP11-93O14.2	GPR68	0.987106146	0.000248305
RP11-485G7.6	GPR68	0.975410076	0.000899562
RP11-78A19.3	GPR68	0.985619331	0.000308718
Z69720.3	GPR68	0.98909569	0.000177708
AC024028.1	GPR84	0.959535965	0.002422881
LL21NC02-21A1.1	LRRN3	0.811813222	0.049789147
RP11-498J9.2	GPR84	0.999436955	4.75E-07
RP11-34P13.14	GPR84	0.972299238	0.00114037
AC011558.5	LRRN3	0.815287348	0.048027062
CCDC144NL-AS1	ELF3	-0.893690637	0.016351784
RP11-93O14.2	GPR84	0.980625409	0.000559426
RP11-485G7.6	GPR84	0.970593177	0.001284427
RP11-78A19.3	GPR84	0.980378585	0.000573723
Z69720.3	GPR84	0.985564812	0.000311058
RP11-498J9.2	GPR85	0.979356351	0.000634842
RP11-34P13.14	GPR85	0.969431364	0.00138738
RP11-93O14.2	GPR85	0.991549692	0.00010681
RP11-485G7.6	GPR85	0.956139174	0.002843469
RP11-78A19.3	GPR85	0.98032894	0.00057662
LA16c-359F1.1	GPR85	0.918008017	0.009808425
Z69720.3	GPR85	0.973135043	0.001072894
AC024028.1	GPRC5C	0.963550112	0.001968678
RP11-498J9.2	GPRC5C	0.999980828	5.51E-10
RP11-34P13.14	GPRC5C	0.979340082	0.000635839
RP11-93O14.2	GPRC5C	0.983484872	0.000406872
RP11-485G7.6	GPRC5C	0.965079276	0.001807893
RP11-78A19.3	GPRC5C	0.9833484	0.000413605
Z69720.3	GPRC5C	0.987379627	0.000237906
RP11-66D17.5	GPS2	0.982874722	0.000437401
RP11-126K1.8	GPS2	0.990651126	0.000130694
RP3-438O4.4	GPS2	0.9892856	0.000171583
NUP50-AS1	GPS2	0.998883054	1.87E-06
AC011558.5	ELF3	0.816517091	0.047410401
CCDC144NL-AS1	ATP13A4	-0.891034371	0.01716336
PSMD5-AS1	GPS2	0.980222205	0.000582874
TOPORS-AS1	GPS2	0.974526186	0.000965108
AC087294.2	GPS2	0.994943389	3.83E-05

AP001062.8	GPS2	0.999159341	1.06E-06
RP11-455F5.3	GPS2	0.993043911	7.24E-05
RP11-326C3.2	GPS2	0.967916037	0.001527558
AP006621.8	GPS2	0.97648747	0.000822759
JHDM1D-AS1	GPS2	0.989507773	0.000164553
RP11-20I23.6	GPS2	0.987231795	0.0002435
AC005786.7	GPS2	0.991100587	0.000118447
AC005944.2	GPS2	0.98261477	0.000450742
CTB-191K22.5	GPS2	0.997437379	9.84E-06
RP11-20I23.8	GPS2	0.990438269	0.000136703
CDC37L1-AS1	GPS2	0.987554329	0.000231378
RP5-1142A6.10	GPS2	0.979249016	0.000641437
RP11-556I13.1	GPS2	0.989382971	0.000168484
RP11-326C3.2	GPSM3	0.92970389	0.007238629
RP11-160E2.19	GPSM3	0.979746279	0.000611166
AC011558.5	GPSM3	0.990267324	0.000141627
CTD-2139B15.2	GPT	0.977145898	0.000777496
CTA-315H11.2	GPX2	-0.946516584	0.00421422
RP11-66D17.5	GPX2	0.950688019	0.003587552
AC011558.5	ATP13A4	0.856622934	0.029361775
CCDC144NL-AS1	DUSP13	-0.916777458	0.010100788
RP11-126K1.8	GPX2	0.972794346	0.001100153
RP11-66D17.5	DUSP13	0.895400851	0.015839264
RP3-438O4.4	GPX2	0.988789035	0.000187824
NUP50-AS1	GPX2	0.985178528	0.000327886
PSMD5-AS1	GPX2	0.989637472	0.000160517
TOPORS-AS1	GPX2	0.979900687	0.000601914
AC087294.2	GPX2	0.998048707	5.71E-06
AP001062.8	GPX2	0.991018319	0.000120644
RP11-455F5.3	GPX2	0.998769225	2.27E-06
RP11-326C3.2	GPX2	0.992538873	8.33E-05
AP006621.8	GPX2	0.990605071	0.000131982
JHDM1D-AS1	GPX2	0.998389074	3.89E-06
RP11-20I23.6	GPX2	0.999223534	9.04E-07
RP11-160E2.19	GPX2	0.956398006	0.002810254
AC005786.7	GPX2	0.994136633	5.15E-05
AC005944.2	GPX2	0.976464193	0.000824383
CTB-191K22.5	GPX2	0.978782036	0.000670527
RP11-20I23.8	GPX2	0.99933161	6.70E-07
CDC37L1-AS1	GPX2	0.990569087	0.000132994
RP5-1142A6.10	GPX2	0.992503389	8.41E-05
RP11-556I13.1	GPX2	0.998355089	4.06E-06
CTB-31O20.6	GPX3	0.922656437	0.008741704
AC011558.5	DUSP13	0.880052348	0.020718289
AC024028.1	GRAMD1C	0.968762579	0.001448424
RP11-498J9.2	GRAMD1C	0.999839249	3.88E-08
RP11-66D17.5	CD226	0.853681701	0.0305473
RP11-126K1.8	CD226	0.90943087	0.011932692
RP11-34P13.14	GRAMD1C	0.980066746	0.000592042
RP11-93O14.2	GRAMD1C	0.981167856	0.000528635
RP11-485G7.6	GRAMD1C	0.960762363	0.002279183
RP11-473M20.11	GRAMD1C	0.92105451	0.009102576
RP11-78A19.3	GRAMD1C	0.981636264	0.000502744
Z69720.3	GRAMD1C	0.986323375	0.000279296
RP3-339A18.6	GRAMD3	0.967892561	0.001529782
RP11-118G23.2	GRAMD4	0.963087681	0.002018632
RP11-680G24.6	GRAMD4	0.982850893	0.000438616
LA16c-359F1.1	GRAMD4	0.943646969	0.004674017
AC024028.1	GRIK5	0.961180057	0.002231231
RP11-498J9.2	GRIK5	0.998847131	1.99E-06
RP11-34P13.14	GRIK5	0.972323844	0.001138355
RP11-93O14.2	GRIK5	0.983224768	0.000419752
CTB-191K22.5	CD226	0.908239865	0.012243577

RP11-485G7.6	GRIK5	0.968097324	0.001510436
RP11-78A19.3	GRIK5	0.98245608	0.000458984
Z69720.3	GRIK5	0.981107653	0.00053201
CTA-315H11.2	GRINA	-0.949231898	0.003800675
RP11-66D17.5	GRINA	0.946295135	0.004248871
CCDC144NL-AS1	PTPRK	-0.89368976	0.016352049
RP11-126K1.8	GRINA	0.97174196	0.001186493
RP3-438O4.4	GRINA	0.983857863	0.00038875
NUP50-AS1	GRINA	0.983296633	0.000416174
PSMD5-AS1	GRINA	0.992961379	7.41E-05
TOPORS-AS1	GRINA	0.97677639	0.000802741
AC087294.2	GRINA	0.996119388	2.26E-05
AP001062.8	GRINA	0.988929525	0.000183155
RP11-455F5.3	GRINA	0.997745332	7.62E-06
RP11-326C3.2	GRINA	0.994505979	4.52E-05
AP006621.8	GRINA	0.993821077	5.72E-05
JHDM1D-AS1	GRINA	0.996406469	1.93E-05
RP11-20I23.6	GRINA	0.998914395	1.77E-06
RP11-160E2.19	GRINA	0.962882386	0.002041007
AC005786.7	GRINA	0.992551696	8.30E-05
AC005944.2	GRINA	0.979583416	0.000621
CTB-191K22.5	GRINA	0.976786703	0.000802031
RP11-20I23.8	GRINA	0.997907227	6.56E-06
CDC37L1-AS1	GRINA	0.985783434	0.000301729
RP5-1142A6.10	GRINA	0.993350955	6.62E-05
RP11-556I13.1	GRINA	0.99634981	2.00E-05
RP11-91K8.5	GRTP1	0.935688161	0.006071022
AC011558.5	PTPRK	0.865376685	0.025965237
CCDC144NL-AS1	TSGA10	-0.842127008	0.035418419
LL21NC02-21A1.1	TSGA10	0.863243052	0.026774848
CTA-315H11.2	GSDMB	-0.956940886	0.002741213
RP11-66D17.5	GSDMB	0.939790881	0.005328574
RP11-126K1.8	GSDMB	0.974345335	0.0009788
RP3-438O4.4	GSDMB	0.983860288	0.000388633
NUP50-AS1	GSDMB	0.979855879	0.000604591
PSMD5-AS1	GSDMB	0.99108872	0.000118763
TOPORS-AS1	GSDMB	0.971329777	0.001221189
AC087294.2	GSDMB	0.996242738	2.11E-05
AP001062.8	GSDMB	0.988715458	0.000190293
RP11-455F5.3	GSDMB	0.998601904	2.93E-06
RP11-326C3.2	GSDMB	0.994013879	5.36E-05
AP006621.8	GSDMB	0.993329487	6.66E-05
JHDM1D-AS1	GSDMB	0.997418674	9.99E-06
RP11-20I23.6	GSDMB	0.996182511	2.18E-05
RP11-160E2.19	GSDMB	0.956823467	0.002756074
AC005786.7	GSDMB	0.987100313	0.00024853
AC005944.2	GSDMB	0.970834243	0.001263557
CTB-191K22.5	GSDMB	0.972975811	0.001085592
RP11-20I23.8	GSDMB	0.998173902	5.00E-06
CDC37L1-AS1	GSDMB	0.985685065	0.000305909
RP5-1142A6.10	GSDMB	0.986403686	0.000276033
CCDC144NL-AS1	CCBP2	-0.877598884	0.021556141
RP11-556I13.1	GSDMB	0.997360146	1.04E-05
AC011558.5	GSG2	-0.978526299	0.000686729
RP11-66D17.5	GSK3A	0.986620088	0.000267335
RP11-126K1.8	GSK3A	0.990610192	0.000131839
RP3-438O4.4	GSK3A	0.991306887	0.000113027
NUP50-AS1	GSK3A	0.998844639	2.00E-06
PSMD5-AS1	GSK3A	0.96981469	0.001352978
TOPORS-AS1	GSK3A	0.976555462	0.000818026
AC087294.2	GSK3A	0.993007794	7.32E-05
AP001062.8	GSK3A	0.998918233	1.75E-06
RP11-455F5.3	GSK3A	0.989776498	0.000156246

RP11-326C3.2	GSK3A	0.958751865	0.002517023
AP006621.8	GSK3A	0.966178997	0.001696447
JHDM1D-AS1	GSK3A	0.986841866	0.000258566
RP11-20I23.6	GSK3A	0.982085202	0.000478535
AC005786.7	GSK3A	0.988780365	0.000188114
AC005944.2	GSK3A	0.972305274	0.001139876
CTB-191K22.5	GSK3A	0.996411505	1.93E-05
RMRP	CCBP2	0.818167943	0.046588398
RP11-20I23.8	GSK3A	0.986928293	0.000255188
CDC37L1-AS1	GSK3A	0.987633628	0.000228445
RP5-1142A6.10	GSK3A	0.97296596	0.00108638
RP11-556I13.1	GSK3A	0.986730235	0.000262962
CCDC144NL-AS1	ABP1	-0.903804147	0.013435382
AC024028.1	GSN	0.954174921	0.003101792
RP11-66D17.5	ABP1	0.835509349	0.038360435
RP11-126K1.8	ABP1	0.888822149	0.017853664
RP3-438O4.4	ABP1	0.910968996	0.011536926
NUP50-AS1	ABP1	0.905176559	0.013060926
RP11-473M20.11	GSN	0.988052935	0.000213246
CTA-315H11.2	GSPT1	-0.942986204	0.004783196
RP11-66D17.5	GSPT1	0.949914776	0.003699974
AP001062.8	ABP1	0.916180738	0.01024406
RP11-126K1.8	GSPT1	0.971416151	0.001213878
RP3-438O4.4	GSPT1	0.995075972	3.63E-05
NUP50-AS1	GSPT1	0.982433693	0.000460152
PSMD5-AS1	GSPT1	0.978296841	0.000701429
TOPORS-AS1	GSPT1	0.980731227	0.000553351
AC087294.2	GSPT1	0.998466074	3.53E-06
AP001062.8	GSPT1	0.99084544	0.000125325
RP11-455F5.3	GSPT1	0.997912471	6.53E-06
CTB-191K22.5	ABP1	0.892295993	0.016775538
RP11-326C3.2	GSPT1	0.986154852	0.000286205
AP006621.8	GSPT1	0.980684009	0.000556058
JHDM1D-AS1	GSPT1	0.999771988	7.80E-08
RP11-20I23.6	GSPT1	0.995364799	3.22E-05
RP11-160E2.19	GSPT1	0.93855641	0.005546988
CCDC144NL-AS1	SBK1	-0.890412583	0.017356063
AC005786.7	GSPT1	0.990894843	0.000123978
AC005944.2	GSPT1	0.960324095	0.002330038
CTB-191K22.5	GSPT1	0.975313802	0.000906591
RP11-20I23.8	GSPT1	0.99912403	1.15E-06
CDC37L1-AS1	GSPT1	0.996411745	1.93E-05
RP5-1142A6.10	GSPT1	0.98423258	0.000370957
RP11-556I13.1	GSPT1	0.999789466	6.65E-08
RP4-784A16.3	GSTCD	0.93596204	0.006019985
RP11-77G23.2	GSTCD	0.951318645	0.003497127
RP11-91K8.5	GSTM3	0.994767958	4.10E-05
CTD-2139B15.2	GSTO2	0.93339257	0.006507071
MIR210HG	GSTT1	0.967014063	0.001614162
RP11-498J9.2	GTDC1	0.924306374	0.008377443
RP11-34P13.14	GTDC1	0.924086921	0.008425458
RP11-93O14.2	GTDC1	0.953181219	0.003236684
RP11-485G7.6	GTDC1	0.940888558	0.005137971
RP11-78A19.3	GTDC1	0.946215772	0.004261323
RP11-680G24.6	GTDC1	0.954784643	0.003020423
LA16c-359F1.1	GTDC1	0.978349797	0.000698023
Z69720.3	GTDC1	0.945655204	0.004349785
RP11-770G2.2	GTF2H2	0.948891738	0.003851333
RP11-77G23.2	GTF2H2C	0.935659077	0.006076454
AC011558.5	SBK1	0.858964895	0.028433694
CCDC144NL-AS1	C6orf105	-0.857806979	0.028890793
RP3-337H4.8	GTPBP2	0.930547419	0.007067984
CTA-315H11.2	GUK1	-0.94386393	0.004638438

RP11-66D17.5	GUK1	0.955011423	0.00299043
RP11-126K1.8	GUK1	0.97685065	0.000797636
RP3-438O4.4	GUK1	0.993585267	6.16E-05
NUP50-AS1	GUK1	0.986616025	0.000267497
PSMD5-AS1	GUK1	0.984350275	0.000365454
TOPORS-AS1	GUK1	0.979553628	0.000622807
AC087294.2	GUK1	0.999569246	2.78E-07
AP001062.8	GUK1	0.993689258	5.96E-05
RP11-455F5.3	GUK1	0.999490285	3.90E-07
RP11-326C3.2	GUK1	0.987686224	0.00022651
AP006621.8	GUK1	0.985619204	0.000308724
JHDM1D-AS1	GUK1	0.999809683	5.43E-08
RP11-20I23.6	GUK1	0.996807041	1.53E-05
RP11-160E2.19	GUK1	0.942752569	0.004822095
AC005786.7	GUK1	0.992546391	8.31E-05
AC005944.2	GUK1	0.969590127	0.00137308
CTB-191K22.5	GUK1	0.980683436	0.000556091
RP11-20I23.8	GUK1	0.999830965	4.29E-08
LL21NC02-21A1.1	C6orf105	0.823104024	0.044170549
CDC37L1-AS1	GUK1	0.994827002	4.01E-05
RP5-1142A6.10	GUK1	0.986709948	0.000263765
AC011558.5	C6orf105	0.824011161	0.043732738
RP11-556I13.1	GUK1	0.999787799	6.75E-08
RP11-66D17.5	GYPB	0.919110684	0.009549989
RP11-126K1.8	GYPB	0.929636542	0.007252339
LL21NC02-21A1.1	GYPB	0.945067577	0.004443475
CTA-315H11.2	GYPE	-0.938183153	0.005613873
RP11-66D17.5	GYPE	0.962501208	0.002082874
RP11-126K1.8	GYPE	0.982919345	0.000435132
RP3-438O4.4	GYPE	0.993568121	6.19E-05
NUP50-AS1	GYPE	0.990827541	0.000125815
PSMD5-AS1	GYPE	0.984969736	0.000337166
TOPORS-AS1	GYPE	0.978366067	0.000696978
AC087294.2	GYPE	0.999877461	2.25E-08
AP001062.8	GYPE	0.996709151	1.62E-05
RP11-455F5.3	GYPE	0.999567615	2.80E-07
RP11-326C3.2	GYPE	0.984103241	0.000377052
AP006621.8	GYPE	0.98514452	0.000329389
JHDM1D-AS1	GYPE	0.998724156	2.44E-06
RP11-20I23.6	GYPE	0.995299393	3.31E-05
RP11-160E2.19	GYPE	0.936561807	0.005908956
AC005786.7	GYPE	0.99253859	8.33E-05
AC005944.2	GYPE	0.973392424	0.001052526
CCDC144NL-AS1	DACT1	-0.880024133	0.020727834
CTB-191K22.5	GYPE	0.986016921	0.000291923
RP11-20I23.8	GYPE	0.998902058	1.81E-06
CDC37L1-AS1	GYPE	0.993961833	5.46E-05
RP5-1142A6.10	GYPE	0.984991132	0.000336209
RP11-556I13.1	GYPE	0.998670227	2.65E-06
RP11-498J9.2	GZF1	0.986167039	0.000285703
RP11-34P13.14	GZF1	0.968237934	0.001497222
RP11-93O14.2	GZF1	0.990813361	0.000126204
RP11-485G7.6	GZF1	0.979093806	0.000651035
RP11-78A19.3	GZF1	0.986680734	0.000264923
LA16c-359F1.1	GZF1	0.947503335	0.004061512
Z69720.3	GZF1	0.984471335	0.000359837
CTA-315H11.2	GZMA	-0.969883241	0.00134687
RP11-126K1.8	GZMA	0.941434142	0.0050445
RP3-438O4.4	GZMA	0.960077287	0.00235892
NUP50-AS1	GZMA	0.952592186	0.003317977
PSMD5-AS1	GZMA	0.988554394	0.000195753
TOPORS-AS1	GZMA	0.957011603	0.002732282
AC087294.2	GZMA	0.979306181	0.00063792

AP001062.8	GZMA	0.963228941	0.002003307
RP11-455F5.3	GZMA	0.984493382	0.000358818
RP11-326C3.2	GZMA	0.999646685	1.87E-07
AC011558.5	DACT1	0.835408254	0.038406233
CCDC144NL-AS1	TUSC3	-0.871139813	0.023837563
AP006621.8	GZMA	0.993151844	7.02E-05
JHDM1D-AS1	GZMA	0.9843054	0.000367548
RP11-20I23.6	GZMA	0.990201332	0.00014355
RP11-160E2.19	GZMA	0.985483048	0.000314583
AC005786.7	GZMA	0.974094307	0.000997965
AC005944.2	GZMA	0.961374184	0.002209117
CTB-191K22.5	GZMA	0.942794369	0.004815124
RP11-20I23.8	GZMA	0.986391403	0.000276531
CDC37L1-AS1	GZMA	0.96536356	0.001778748
RP5-1142A6.10	GZMA	0.985615819	0.000308869
RP11-556I13.1	GZMA	0.984286265	0.000368442
AC024028.1	GZMB	0.948680826	0.003882908
RP11-498J9.2	GZMB	0.997303577	1.09E-05
RP11-34P13.14	GZMB	0.964783568	0.001838458
RP11-93O14.2	GZMB	0.98019499	0.000584473
RP11-485G7.6	GZMB	0.980233399	0.000582216
RP11-78A19.3	GZMB	0.981896006	0.000488665
Z69720.3	GZMB	0.982625074	0.000450209
CTA-315H11.2	GZMK	-0.958068047	0.002600569
RP11-66D17.5	GZMK	0.926201435	0.00796838
RP11-126K1.8	GZMK	0.958499468	0.002547703
RP3-438O4.4	GZMK	0.980607027	0.000560484
AC011558.5	TUSC3	0.815693324	0.047823074
CCDC144NL-AS1	SDK2	-0.912847917	0.011062247
NUP50-AS1	GZMK	0.971060385	0.001244133
RP11-66D17.5	SDK2	0.85349983	0.030621334
RP11-126K1.8	SDK2	0.90726145	0.012501862
PSMD5-AS1	GZMK	0.987561841	0.0002311
TOPORS-AS1	GZMK	0.975040777	0.00092667
AC087294.2	GZMK	0.992431589	8.57E-05
AP001062.8	GZMK	0.980151717	0.000587022
RP11-455F5.3	GZMK	0.994811622	4.03E-05
RP11-326C3.2	GZMK	0.997980808	6.11E-06
AP006621.8	GZMK	0.991177887	0.000116401
JHDM1D-AS1	GZMK	0.995584033	2.92E-05
RP11-20I23.6	GZMK	0.997536328	9.10E-06
RP11-160E2.19	GZMK	0.968718646	0.00145248
AC005786.7	GZMK	0.987461212	0.000234846
AC005944.2	GZMK	0.964930225	0.001823268
CTB-191K22.5	GZMK	0.961600218	0.002183504
RP11-20I23.8	GZMK	0.996468002	1.87E-05
CTB-191K22.5	SDK2	0.908387736	0.012204768
CDC37L1-AS1	GZMK	0.983496808	0.000406286
RP5-1142A6.10	GZMK	0.99106334	0.000119439
RP11-556I13.1	GZMK	0.995584155	2.92E-05
CTA-315H11.2	GZMM	-0.967489256	0.001568242
RP11-126K1.8	GZMM	0.947941918	0.003994526
CCDC144NL-AS1	TMEM121	-0.893000825	0.016560728
RP3-438O4.4	GZMM	0.96708434	0.00160733
RP11-66D17.5	TMEM121	0.868626512	0.024754803
RP11-126K1.8	TMEM121	0.915304817	0.01045614
NUP50-AS1	GZMM	0.959634623	0.002411161
PSMD5-AS1	GZMM	0.989899431	0.000152517
TOPORS-AS1	GZMM	0.962841126	0.002045519
AC087294.2	GZMM	0.984245971	0.000370329
AP001062.8	GZMM	0.969528398	0.001378631
RP11-455F5.3	GZMM	0.988572024	0.000195152
RP11-326C3.2	GZMM	0.99999002	1.49E-10

AP006621.8	GZMM	0.993936038	5.50E-05
JHDM1D-AS1	GZMM	0.988549411	0.000195923
RP11-20I23.6	GZMM	0.99345848	6.40E-05
RP11-160E2.19	GZMM	0.981790895	0.000494338
AC005786.7	GZMM	0.979289477	0.000638947
AC005944.2	GZMM	0.965030826	0.001812884
CTB-191K22.5	GZMM	0.950404996	0.003628503
RP11-20I23.8	GZMM	0.990378718	0.000138408
CDC37L1-AS1	GZMM	0.97186459	0.001176266
RP5-1142A6.10	GZMM	0.988408399	0.000200769
RP11-556I13.1	GZMM	0.988532741	0.000196493
RP11-91K8.5	H19	0.927732294	0.007645219
MIR210HG	H1F0	0.990969669	0.000121952
CCDC144NL-AS1	PAGE2	-0.845570039	0.033931449
RP11-66D17.5	H2AFJ	0.988130143	0.000210504
RP11-126K1.8	H2AFJ	0.990165787	0.000144592
RP3-438O4.4	H2AFJ	0.959381441	0.002441293
NUP50-AS1	H2AFJ	0.991412891	0.000110291
PSMD5-AS1	H2AFJ	0.966357854	0.001678653
TOPORS-AS1	H2AFJ	0.941493489	0.005034383
AC087294.2	H2AFJ	0.970286229	0.001311245
AP001062.8	H2AFJ	0.985374847	0.000319279
RP11-455F5.3	H2AFJ	0.968469737	0.001475563
RP11-326C3.2	H2AFJ	0.933364683	0.006512459
AP006621.8	H2AFJ	0.957167756	0.002712612
JHDM1D-AS1	H2AFJ	0.958989564	0.002488297
RP11-20I23.6	H2AFJ	0.958444484	0.002554411
AC005786.7	H2AFJ	0.967205038	0.001595629
AC005944.2	H2AFJ	0.98533094	0.000321194
CTB-191K22.5	H2AFJ	0.99618425	2.18E-05
RP11-20I23.8	H2AFJ	0.961678253	0.002174696
CDC37L1-AS1	H2AFJ	0.955641253	0.002907905
LL21NC02-21A1.1	H2AFJ	0.930555604	0.007066337
RP5-1142A6.10	H2AFJ	0.9521736	0.003376349
LL21NC02-21A1.1	PAGE2	0.858556699	0.028594439
RP11-556I13.1	H2AFJ	0.958707125	0.002522448
CTA-315H11.2	H2AFZ	0.975234858	0.000912374
CCDC144NL-AS1	RAB25	-0.885607369	0.018880059
RP3-438O4.4	H2AFZ	-0.920743168	0.009173536
PSMD5-AS1	H2AFZ	-0.956232253	0.002831502
AC087294.2	H2AFZ	-0.938900709	0.005485639
RP11-455F5.3	H2AFZ	-0.944892203	0.004471626
RP11-326C3.2	H2AFZ	-0.971412376	0.001214197
AP006621.8	H2AFZ	-0.961508147	0.002193919
JHDM1D-AS1	H2AFZ	-0.948845833	0.003858194
RP11-20I23.6	H2AFZ	-0.955256087	0.002958238
RP11-160E2.19	H2AFZ	-0.974613277	0.000958548
AC005786.7	H2AFZ	-0.932341061	0.006711736
AC005944.2	H2AFZ	-0.928899811	0.007403141
RP11-20I23.8	H2AFZ	-0.951214105	0.003512039
CDC37L1-AS1	H2AFZ	-0.935926543	0.006026588
RP5-1142A6.10	H2AFZ	-0.947863977	0.00400639
RP11-556I13.1	H2AFZ	-0.948931826	0.003845346
AC024028.1	H3F3C	0.92517271	0.008189201
RP11-498J9.2	H3F3C	0.974221258	0.00098825
RP11-34P13.14	H3F3C	0.957140532	0.002716036
RP11-93O14.2	H3F3C	0.942410715	0.00487929
RP11-485G7.6	H3F3C	0.9442745	0.004571474
RP11-78A19.3	H3F3C	0.940823565	0.005149162
Z69720.3	H3F3C	0.989064223	0.000178733
AC011558.5	RAB25	0.845848803	0.033812371
CCDC144NL-AS1	KRT23	-0.877149609	0.021711285
CTA-315H11.2	HAGH	-0.937294166	0.005774752

RP11-66D17.5	HAGH	0.963720092	0.001950471
RP11-126K1.8	HAGH	0.98365718	0.000398449
RP3-438O4.4	HAGH	0.993884925	5.60E-05
NUP50-AS1	HAGH	0.991188093	0.000116132
PSMD5-AS1	HAGH	0.984263667	0.0003695
TOPORS-AS1	HAGH	0.977767062	0.00073596
AC087294.2	HAGH	0.999811993	5.30E-08
AP001062.8	HAGH	0.9970386	1.31E-05
RP11-455F5.3	HAGH	0.999365976	6.03E-07
RP11-326C3.2	HAGH	0.982898392	0.000436197
AP006621.8	HAGH	0.984303147	0.000367653
JHDM1D-AS1	HAGH	0.998509781	3.33E-06
RP11-20I23.6	HAGH	0.994636972	4.31E-05
RP11-160E2.19	HAGH	0.93427691	0.00633734
AC005786.7	HAGH	0.992141102	9.24E-05
AC005944.2	HAGH	0.973080528	0.001077233
CTB-191K22.5	HAGH	0.986704065	0.000263998
RP11-20I23.8	HAGH	0.998615546	2.87E-06
CDC37L1-AS1	HAGH	0.994252574	4.95E-05
RP5-1142A6.10	HAGH	0.983923169	0.000385619
RP11-556I13.1	HAGH	0.998454587	3.58E-06
AC011558.5	KRT23	0.828113791	0.041778126
CCDC144NL-AS1	GPA33	-0.893440145	0.01642751
RP11-160E2.19	HAL	0.944046222	0.004608647
RP11-66D17.5	GPA33	0.916050892	0.010275365
AC011558.5	HAL	0.982511806	0.000456081
RP11-770G2.2	HAMP	0.935648571	0.006078417
AC024028.1	HAS1	0.987435371	0.000235813
RP11-473M20.11	HAS1	0.999771221	7.85E-08
CTD-2139B15.2	HAUS7	0.978635945	0.000679759
CTD-2541M15.3	HBA1	0.938924537	0.005481406
AC024028.1	HBEGF	0.974953117	0.000933163
RP11-498J9.2	HBEGF	0.99889899	1.82E-06
RP11-34P13.14	HBEGF	0.976262492	0.000838516
RP11-93O14.2	HBEGF	0.975376708	0.000901995
RP11-485G7.6	HBEGF	0.957008185	0.002732713
RP11-473M20.11	HBEGF	0.932067147	0.006765558
RP11-78A19.3	HBEGF	0.977241098	0.000771057
Z69720.3	HBEGF	0.982300786	0.000467121
CTA-315H11.2	HBM	-0.935363422	0.006131809
RP11-66D17.5	HBM	0.968954451	0.001430778
RP11-126K1.8	HBM	0.990418398	0.000137271
RP3-438O4.4	HBM	0.989402016	0.000167881
NUP50-AS1	HBM	0.993462447	6.40E-05
PSMD5-AS1	HBM	0.986658115	0.000265821
AC011558.5	GPA33	0.876300213	0.022006051
CCDC144NL-AS1	CNIH3	-0.862688889	0.026987057
TOPORS-AS1	HBM	0.969382333	0.001391811
AC087294.2	HBM	0.997753345	7.57E-06
AP001062.8	HBM	0.998325878	4.20E-06
RP11-455F5.3	HBM	0.997773681	7.43E-06
RP11-326C3.2	HBM	0.978106447	0.000713744
AP006621.8	HBM	0.985173802	0.000328095
JHDM1D-AS1	HBM	0.994873209	3.94E-05
RP11-20I23.6	HBM	0.990567244	0.000133046
RP11-160E2.19	HBM	0.928731942	0.007437714
AC005786.7	HBM	0.988294694	0.000204719
AC005944.2	HBM	0.979101479	0.000650559
CTB-191K22.5	HBM	0.991536946	0.000107132
RP11-20I23.8	HBM	0.995473451	3.07E-05
CDC37L1-AS1	HBM	0.989648246	0.000160184
RP5-1142A6.10	HBM	0.978890239	0.00066373
RP11-556I13.1	HBM	0.994761462	4.11E-05

AC011558.5	HCLS1	0.925519055	0.008114529
CTA-315H11.2	HDAC10	-0.966710703	0.001643821
RP3-438O4.4	HDAC10	0.922570347	0.008760918
PSMD5-AS1	HDAC10	0.967628791	0.001554882
LL21NC02-21A1.1	CNIH3	0.825721358	0.042912881
TOPORS-AS1	HDAC10	0.925960552	0.008019824
AC087294.2	HDAC10	0.945656736	0.004349543
AP001062.8	HDAC10	0.920732652	0.009175938
RP11-455F5.3	HDAC10	0.952561312	0.003322265
RP11-326C3.2	HDAC10	0.986302387	0.000280152
AP006621.8	HDAC10	0.973621381	0.00103457
JHDM1D-AS1	HDAC10	0.954589331	0.003046372
RP11-20I23.6	HDAC10	0.967774306	0.00154101
RP11-160E2.19	HDAC10	0.996878443	1.46E-05
AC005786.7	HDAC10	0.94627269	0.00425239
AC005944.2	HDAC10	0.93869532	0.005522196
RP11-20I23.8	HDAC10	0.957989807	0.002610214
CDC37L1-AS1	HDAC10	0.933182128	0.006547783
RP5-1142A6.10	HDAC10	0.968608601	0.001462663
RP11-556I13.1	HDAC10	0.954640765	0.003039528
AC011558.5	HDAC10	0.939164803	0.005438809
AC024028.1	HDAC9	0.956613477	0.00278275
RP11-498J9.2	HDAC9	0.994758975	4.11E-05
RP11-34P13.14	HDAC9	0.991284992	0.000113596
RP11-93O14.2	HDAC9	0.983495433	0.000406353
RP11-485G7.6	HDAC9	0.946692594	0.004186778
RP11-78A19.3	HDAC9	0.977783009	0.000734909
Z69720.3	HDAC9	0.995074651	3.63E-05
AC024028.1	HDC	0.962971109	0.002031322
CCDC144NL-AS1	CCR3	-0.882277775	0.019972055
RP11-498J9.2	HDC	0.999893469	1.70E-08
RP11-34P13.14	HDC	0.980522979	0.000565337
RP11-93O14.2	HDC	0.984172244	0.000373794
RP11-485G7.6	HDC	0.964158091	0.001903942
RP11-78A19.3	HDC	0.983443543	0.000408905
Z69720.3	HDC	0.988152835	0.000209702
RP11-66D17.5	HDGF	0.983342632	0.000413891
RP11-126K1.8	HDGF	0.984753547	0.000346909
RP3-438O4.4	HDGF	0.995589404	2.91E-05
NUP50-AS1	HDGF	0.997448626	9.76E-06
PSMD5-AS1	HDGF	0.970537534	0.001289268
TOPORS-AS1	HDGF	0.98232989	0.000465591
AC087294.2	HDGF	0.995540892	2.98E-05
AP001062.8	HDGF	0.998178462	4.97E-06
RP11-455F5.3	HDGF	0.991990067	9.60E-05
RP11-326C3.2	HDGF	0.964612906	0.001856213
AP006621.8	HDGF	0.967817955	0.001536861
JHDM1D-AS1	HDGF	0.990921708	0.000123249
RP11-20I23.6	HDGF	0.987012069	0.000251934
AC005786.7	HDGF	0.993071071	7.18E-05
AC005944.2	HDGF	0.97146241	0.001209971
CTB-191K22.5	HDGF	0.994150705	5.12E-05
AC011558.5	CCR3	0.840270665	0.036232567
RP11-20I23.8	HDGF	0.990814403	0.000126175
CDC37L1-AS1	HDGF	0.993252808	6.81E-05
RP11-66D17.5	PDZD2	0.825038475	0.043239383
RP11-126K1.8	PDZD2	0.888931777	0.017819148
RP3-438O4.4	PDZD2	0.905893102	0.012867452
NUP50-AS1	PDZD2	0.898754255	0.014857131
RP5-1142A6.10	HDGF	0.978704148	0.000675441
TOPORS-AS1	PDZD2	0.910967845	0.01153722
RP11-556I13.1	HDGF	0.990861176	0.000124896
AP001062.8	PDZD2	0.912734036	0.011090742

CTD-2139B15.2	HDHD3	0.97998456	0.000596917
CCDC144NL-AS1	HERC2P3	-0.922820132	0.008705228
CTA-315H11.2	HERC2P3	-0.951339365	0.003494175
RP11-126K1.8	HERC2P3	0.967888662	0.001530151
RP3-438O4.4	HERC2P3	0.969431673	0.001387352
NUP50-AS1	HERC2P3	0.960054853	0.002361554
PSMD5-AS1	HERC2P3	0.971280668	0.001225356
TOPORS-AS1	HERC2P3	0.949636005	0.003740923
CTB-191K22.5	PDZD2	0.885972741	0.01876202
AC087294.2	HERC2P3	0.982144485	0.000475383
CDC37L1-AS1	PDZD2	0.91424496	0.010715572
AP001062.8	HERC2P3	0.975133278	0.000919843
RP11-455F5.3	HERC2P3	0.985951118	0.00029467
RP11-326C3.2	HERC2P3	0.977435117	0.000758016
CCDC144NL-AS1	ERP27	-0.903066376	0.013638791
AP006621.8	HERC2P3	0.976590071	0.000815623
RP11-66D17.5	ERP27	0.828563153	0.041566574
RP11-126K1.8	ERP27	0.882729948	0.019822033
RP3-438O4.4	ERP27	0.906115458	0.012807697
NUP50-AS1	ERP27	0.899377926	0.014677813
JHDM1D-AS1	HERC2P3	0.984472656	0.000359776
TOPORS-AS1	ERP27	0.915793302	0.010337607
RP11-20I23.6	HERC2P3	0.975529197	0.000890903
AP001062.8	ERP27	0.910799788	0.011580148
RP11-160E2.19	HERC2P3	0.926529951	0.007898482
AC005786.7	HERC2P3	0.961929063	0.002146504
AC005944.2	HERC2P3	0.93593001	0.006025943
CTB-191K22.5	HERC2P3	0.950588352	0.003601947
RP11-20I23.8	HERC2P3	0.983560014	0.000403188
CDC37L1-AS1	HERC2P3	0.968957599	0.001430489
RP5-1142A6.10	HERC2P3	0.957928641	0.002617766
RP11-556I13.1	HERC2P3	0.984396058	0.000363325
CTB-191K22.5	ERP27	0.886760634	0.018508688
AC024028.1	HES1	0.968128492	0.001507502
CDC37L1-AS1	ERP27	0.914973109	0.010537004
RP11-498J9.2	HES1	0.998837507	2.03E-06
RP11-34P13.14	HES1	0.98478436	0.000345512
RP11-93O14.2	HES1	0.982718774	0.000445381
RP11-485G7.6	HES1	0.954147332	0.003105499
RP11-473M20.11	HES1	0.918099159	0.009786937
RP11-78A19.3	HES1	0.980636179	0.000558806
Z69720.3	HES1	0.988321285	0.000203792
CTA-315H11.2	HEXIM1	-0.941257853	0.005074611
RP11-326C3.2	HEXIM1	0.933719494	0.00644407
AP006621.8	HEXIM1	0.922631423	0.008747285
RP11-160E2.19	HEXIM1	0.978221454	0.000706293
AC011558.5	HEXIM1	0.970787481	0.001267592
RP11-34P13.14	HEY1	0.939326171	0.005410291
RP11-93O14.2	HEY1	0.947850407	0.004008458
RP11-78A19.3	HEY1	0.922671016	0.008738453
RP11-680G24.6	HEY1	0.942459288	0.004871144
Z69720.3	HEY1	0.930373356	0.007103034
AC024028.1	HGD	0.951502142	0.003471029
RP11-498J9.2	HGD	0.996279901	2.07E-05
RP11-34P13.14	HGD	0.988630737	0.000193155
RP11-93O14.2	HGD	0.990621024	0.000131535
RP11-485G7.6	HGD	0.95775615	0.002639121
RP11-78A19.3	HGD	0.986470079	0.00027335
LA16c-359F1.1	HGD	0.917812316	0.009854642
Z69720.3	HGD	0.991710779	0.000102782
RP11-160E2.19	HIATL1	-0.928041584	0.00758072
AC011558.5	HIATL1	-0.963851253	0.001936479
AC024028.1	HIC1	0.961139086	0.002235913

RP11-498J9.2	HIC1	0.999520962	3.44E-07
RP11-34P13.14	HIC1	0.982521077	0.000455599
RP11-93O14.2	HIC1	0.987413272	0.000236642
RP11-485G7.6	HIC1	0.964617883	0.001855694
RP11-78A19.3	HIC1	0.987384165	0.000237735
Z69720.3	HIC1	0.987383486	0.000237761
RP11-91K8.5	HIF3A	0.94480741	0.004485269
CTA-315H11.2	HIP1R	-0.938144425	0.005620835
PSMD5-AS1	HIP1R	0.941720303	0.004995811
RP11-455F5.3	HIP1R	0.918882883	0.009603105
RP11-326C3.2	HIP1R	0.964767616	0.001840114
AP006621.8	HIP1R	0.947652541	0.004038662
JHDM1D-AS1	HIP1R	0.921693921	0.008957683
RP11-20I23.6	HIP1R	0.942979635	0.004784287
RP11-160E2.19	HIP1R	0.99399795	5.39E-05
AC005786.7	HIP1R	0.921556628	0.008988699
RP11-20I23.8	HIP1R	0.926457439	0.007913885
RP5-1142A6.10	HIP1R	0.952010327	0.003399253
RP11-556I13.1	HIP1R	0.921781294	0.008937971
AC011558.5	HIP1R	0.967905252	0.001528579
RP5-1033H22.2	HIST1H1PS1	0.945016076	0.004451733
RP3-438O4.4	SLC22A23	0.878613974	0.021207566
NUP50-AS1	SLC22A23	0.909193397	0.01199437
PSMD5-AS1	SLC22A23	0.823198987	0.044124621
TOPORS-AS1	SLC22A23	0.834068714	0.039015479
AC087294.2	SLC22A23	0.870084582	0.024220667
AP001062.8	SLC22A23	0.904964692	0.013118399
RP11-455F5.3	SLC22A23	0.862346875	0.027118422
AP006621.8	SLC22A23	0.812257335	0.049562251
JHDM1D-AS1	SLC22A23	0.85174553	0.03133981
RP11-20I23.6	SLC22A23	0.826318836	0.042628161
AC005786.7	SLC22A23	0.848209318	0.032811957
AC005944.2	SLC22A23	0.843299346	0.034908743
RP11-21J18.1	HIST1H1PS1	0.991505468	0.000107929
RMRP	SLC22A23	0.870018285	0.024244833
RP11-20I23.8	SLC22A23	0.849048383	0.032459765
CDC37L1-AS1	SLC22A23	0.864155362	0.026427226
RP11-298J23.8	HIST1H1PS1	0.929454139	0.007289534
RP11-556I13.1	SLC22A23	0.851396067	0.031483873
CCDC144NL-AS1	KCNIP2	-0.820193237	0.04558909
RP11-165D6.1	HIST1H1PS1	0.972406281	0.001131615
CTA-315H11.2	HIST1H2AB	-0.918923381	0.009593652
RP11-66D17.5	HIST1H2AB	0.955690069	0.002901557
RP11-126K1.8	HIST1H2AB	0.976096402	0.000850244
RP3-438O4.4	HIST1H2AB	0.993469687	6.38E-05
NUP50-AS1	HIST1H2AB	0.978080865	0.000715407
TOPORS-AS1	KCNIP2	0.902669942	0.0137487
PSMD5-AS1	HIST1H2AB	0.954633031	0.003040557
TOPORS-AS1	HIST1H2AB	0.966194657	0.001694885
AC087294.2	HIST1H2AB	0.989907197	0.000152283
AP001062.8	HIST1H2AB	0.988167591	0.000209181
RP11-455F5.3	HIST1H2AB	0.987398205	0.000237207
RP11-326C3.2	HIST1H2AB	0.958769178	0.002514925
AP006621.8	HIST1H2AB	0.95662101	0.002781791
JHDM1D-AS1	HIST1H2AB	0.9894051	0.000167783
RP11-20I23.6	HIST1H2AB	0.97548163	0.000894356
AC005786.7	HIST1H2AB	0.974401743	0.000974519
AC005944.2	HIST1H2AB	0.935931006	0.006025758
CTB-191K22.5	HIST1H2AB	0.973089169	0.001076545
RP11-20I23.8	HIST1H2AB	0.986769456	0.000261413
LL21NC02-21A1.1	KCNIP2	0.87683427	0.021820496
CDC37L1-AS1	HIST1H2AB	0.992337828	8.78E-05
RP5-1142A6.10	HIST1H2AB	0.956218234	0.002833303

CCDC144NL-AS1	PYHIN1	-0.89695362	0.015380733
RP11-556I13.1	HIST1H2AB	0.989410475	0.000167613
RP11-66D17.5	PYHIN1	0.915059628	0.010515884
AC024028.1	HIST1H2BK	0.9940401017	5.32E-05
RP11-498J9.2	HIST1H2BK	0.974913633	0.000936095
RP11-34P13.14	HIST1H2BK	0.967724572	0.001545744
RP11-93O14.2	HIST1H2BK	0.94271395	0.00482854
RP11-473M20.11	HIST1H2BK	0.974611477	0.000958683
RP11-78A19.3	HIST1H2BK	0.953161702	0.003239362
Z69720.3	HIST1H2BK	0.950359558	0.003635099
RP11-473M20.11	HIST2H2BE	0.921682408	0.008960282
RP11-66D17.5	HK1	0.980907194	0.000543323
RP11-126K1.8	HK1	0.96524393	0.001790984
RP3-438O4.4	HK1	0.918251486	0.009751074
NUP50-AS1	HK1	0.956090351	0.002849756
AP001062.8	HK1	0.946651719	0.004193143
AC005944.2	HK1	0.922910736	0.008685071
CTB-191K22.5	HK1	0.967310969	0.001585394
LL21NC02-21A1.1	HK1	0.975916111	0.000863066
CTA-315H11.2	HK3	-0.922884226	0.008690966
RP3-438O4.4	HK3	0.927446262	0.007705104
NUP50-AS1	HK3	0.932048036	0.006769321
PSMD5-AS1	HK3	0.970876397	0.001259925
AC011558.5	PYHIN1	0.869985699	0.024256715
CCDC144NL-AS1	ESPN	-0.86322476	0.02678184
TOPORS-AS1	HK3	0.950488095	0.003616456
AC087294.2	HK3	0.950594995	0.003600987
AP001062.8	HK3	0.933778799	0.006432673
RP11-455F5.3	HK3	0.955216186	0.002963476
RP11-326C3.2	HK3	0.981639023	0.000502593
AP006621.8	HK3	0.972976358	0.001085548
JHDM1D-AS1	HK3	0.953610728	0.003178033
RP11-20I23.6	HK3	0.973480158	0.001045627
RP11-160E2.19	HK3	0.990476128	0.000135624
AC005786.7	HK3	0.963157471	0.002011053
AC005944.2	HK3	0.958096903	0.002597016
CTB-191K22.5	HK3	0.919016902	0.009571839
RP11-20I23.8	HK3	0.958320596	0.002569557
CDC37L1-AS1	HK3	0.931106027	0.006956071
RP5-1142A6.10	HK3	0.984518396	0.000357665
RP11-556I13.1	HK3	0.953580417	0.003182155
AC011558.5	HK3	0.934302569	0.006332449
PSMD5-AS1	HLA-A	0.949137499	0.003814701
RP11-326C3.2	HLA-A	0.957173238	0.002711922
AP006621.8	HLA-A	0.951230802	0.003509655
LL21NC02-21A1.1	ESPN	0.827817704	0.041917792
RP11-20I23.6	HLA-A	0.939127586	0.005445396
RP11-160E2.19	HLA-A	0.987537997	0.000231985
CCDC144NL-AS1	NLRP12	-0.868170724	0.024922909
AC005786.7	HLA-A	0.923482199	0.008558456
AC005944.2	HLA-A	0.935395639	0.006125765
RP11-20I23.8	HLA-A	0.918871901	0.00960567
RP5-1142A6.10	HLA-A	0.955498452	0.002926517
AC011558.5	HLA-A	0.960404327	0.002320687
PSMD5-AS1	HLA-B	0.931700228	0.006837984
RP11-326C3.2	HLA-B	0.935798788	0.006050381
AP006621.8	HLA-B	0.934246118	0.006343214
RP11-160E2.19	HLA-B	0.98018397	0.000585122
RP5-1142A6.10	HLA-B	0.924059434	0.008431481
AC011558.5	HLA-B	0.968078445	0.001512215
CTA-315H11.2	HLA-C	-0.924740286	0.0082829
PSMD5-AS1	HLA-C	0.9568829	0.002748547
RP11-455F5.3	HLA-C	0.919733495	0.009405501

RP11-326C3.2	HLA-C	0.961268041	0.002221195
AP006621.8	HLA-C	0.959259643	0.002455855
RP11-20I23.6	HLA-C	0.938960945	0.005474941
RP11-160E2.19	HLA-C	0.992075297	9.40E-05
AC005786.7	HLA-C	0.91869585	0.009646822
AC005944.2	HLA-C	0.939114526	0.005447709
RP11-20I23.8	HLA-C	0.921354391	0.009034481
RP5-1142A6.10	HLA-C	0.950832765	0.003566697
AC011558.5	NLRP12	0.849258475	0.032371861
CCDC144NL-AS1	CCDC146	-0.874237272	0.022729847
AC011558.5	HLA-C	0.958557846	0.002540591
RP11-498J9.2	HLA-DOA	0.951050754	0.003535401
RP11-485G7.6	HLA-DOA	0.960612034	0.002296564
Z69720.3	HLA-DOA	0.924980142	0.008230864
RP11-498J9.2	HLA-DPA1	0.963719313	0.001950554
RP11-93O14.2	HLA-DPA1	0.933340356	0.006517161
RP11-485G7.6	HLA-DPA1	0.975767799	0.000873685
RP11-78A19.3	HLA-DPA1	0.929222684	0.007336866
Z69720.3	HLA-DPA1	0.946305508	0.004247244
RP11-498J9.2	HLA-DPB1	0.95576045	0.002892415
RP11-93O14.2	HLA-DPB1	0.930919372	0.006993369
RP11-485G7.6	HLA-DPB1	0.971922251	0.001171472
RP11-78A19.3	HLA-DPB1	0.924042115	0.008435277
Z69720.3	HLA-DPB1	0.936402635	0.005938324
RP11-498J9.2	HLA-DQB1	0.937716021	0.005698132
RP11-485G7.6	HLA-DQB1	0.960181814	0.002346666
RP11-498J9.2	HLA-DRA	0.941991307	0.004949913
RP11-485G7.6	HLA-DRA	0.963399127	0.00198492
Z69720.3	HLA-DRA	0.917674792	0.009887183
RP11-498J9.2	HLA-DRB1	0.972552632	0.001119698
RP11-93O14.2	HLA-DRB1	0.949068341	0.003824992
RP11-485G7.6	HLA-DRB1	0.973509118	0.001043355
AC011558.5	CCDC146	0.836485977	0.03791933
CCDC144NL-AS1	CHIT1	-0.903069758	0.013637855
RP11-78A19.3	HLA-DRB1	0.944148106	0.004592038
RP11-66D17.5	CHIT1	0.892460016	0.01672543
Z69720.3	HLA-DRB1	0.94926569	0.003795661
RP11-326C3.2	HLA-E	0.925404272	0.008139239
RP11-160E2.19	HLA-E	0.977651322	0.000743614
AC011558.5	HLA-E	0.9866869	0.000264678
CTA-315H11.2	HLA-F	-0.953448032	0.003200187
RP11-66D17.5	HLA-F	0.934454741	0.006303474
RP11-126K1.8	HLA-F	0.963685322	0.001954189
RP3-438O4.4	HLA-F	0.976634404	0.000812548
NUP50-AS1	HLA-F	0.976327483	0.000833949
PSMD5-AS1	HLA-F	0.993934383	5.51E-05
TOPORS-AS1	HLA-F	0.97304998	0.001079668
AC087294.2	HLA-F	0.991746081	0.00010191
AP001062.8	HLA-F	0.982357688	0.000464131
RP11-455F5.3	HLA-F	0.994425386	4.65E-05
RP11-326C3.2	HLA-F	0.997254704	1.13E-05
AP006621.8	HLA-F	0.995424058	3.14E-05
JHDM1D-AS1	HLA-F	0.99295902	7.42E-05
RP11-20I23.6	HLA-F	0.997882508	6.72E-06
RP11-160E2.19	HLA-F	0.972839752	0.001096501
AC005786.7	HLA-F	0.98931947	0.000170501
AC011558.5	CHIT1	0.901867015	0.01397261
CCDC144NL-AS1	FBLN5	-0.907174088	0.012525051
AC005944.2	HLA-F	0.978446815	0.000691803
RP11-66D17.5	FBLN5	0.913422744	0.010918957
CTB-191K22.5	HLA-F	0.968775818	0.001447203
RP11-20I23.8	HLA-F	0.994978696	3.78E-05
CDC37L1-AS1	HLA-F	0.979286488	0.000639131

RP5-1142A6.10	HLA-F	0.994124751	5.17E-05
RP11-556I13.1	HLA-F	0.992903471	7.54E-05
AC024028.1	HLX	0.976356708	0.000831899
RP11-498J9.2	HLX	0.970359687	0.001304802
RP11-34P13.14	HLX	0.919990253	0.009346246
RP11-485G7.6	HLX	0.927091708	0.007779652
RP11-473M20.11	HLX	0.958039802	0.002604049
RP11-78A19.3	HLX	0.924685588	0.00829479
Z69720.3	HLX	0.93704939	0.005819439
CTA-315H11.2	HMGB1P3	-0.945741186	0.004336159
RP11-66D17.5	HMGB1P3	0.950244931	0.003651764
RP11-126K1.8	HMGB1P3	0.97284269	0.001096265
RP3-438O4.4	HMGB1P3	0.993698542	5.94E-05
NUP50-AS1	HMGB1P3	0.983525845	0.000404861
PSMD5-AS1	HMGB1P3	0.982245427	0.000470039
TOPORS-AS1	HMGB1P3	0.980052526	0.000592884
AC087294.2	HMGB1P3	0.998911004	1.78E-06
AC011558.5	FBLN5	0.865483152	0.025925147
CCDC144NL-AS1	VNN3	-0.882796135	0.019800119
AP001062.8	HMGB1P3	0.991493281	0.000108239
RP11-455F5.3	HMGB1P3	0.998826662	2.06E-06
RP11-326C3.2	HMGB1P3	0.988496209	0.000197745
AP006621.8	HMGB1P3	0.984286293	0.000368441
JHDM1D-AS1	HMGB1P3	0.999999212	9.32E-13
RP11-20I23.6	HMGB1P3	0.996735909	1.60E-05
RP11-160E2.19	HMGB1P3	0.943792601	0.00465012
AC005786.7	HMGB1P3	0.991761865	0.000101521
AC005944.2	HMGB1P3	0.965172813	0.001798278
CTB-191K22.5	HMGB1P3	0.976773127	0.000802966
RP11-20I23.8	HMGB1P3	0.999768356	8.05E-08
CDC37L1-AS1	HMGB1P3	0.995258828	3.37E-05
RP5-1142A6.10	HMGB1P3	0.986392451	0.000276488
RP11-556I13.1	HMGB1P3	1	0
CTD-2139B15.2	HMGCL	0.930610556	0.007055291
RP3-339A18.6	HMGCS1	0.972934306	0.001088914
CTD-2541M15.3	HMGN5	0.962310815	0.002103944
RP11-118G23.2	HMGXB4	0.923150675	0.008631799
RP11-66D17.5	HMGXB4	-0.926128128	0.007984019
LL21NC02-21A1.1	HMGXB4	-0.938532033	0.005551344
CTA-315H11.2	HMHA1	-0.963720786	0.001950397
PSMD5-AS1	HMHA1	0.965306151	0.001784615
AC011558.5	VNN3	0.841387195	0.03574184
AC087294.2	HMHA1	0.935519212	0.00610261
RP11-455F5.3	HMHA1	0.944443615	0.00454403
RP11-326C3.2	HMHA1	0.983086329	0.000426689
AP006621.8	HMHA1	0.972048152	0.001161039
JHDM1D-AS1	HMHA1	0.944441037	0.004544448
RP11-20I23.6	HMHA1	0.959377729	0.002441737
RP11-160E2.19	HMHA1	0.998528784	3.25E-06
AC005786.7	HMHA1	0.934890418	0.006220878
AC005944.2	HMHA1	0.9317676	0.006824657
RP11-20I23.8	HMHA1	0.948470325	0.003914548
RP5-1142A6.10	HMHA1	0.961391724	0.002207124
RP11-556I13.1	HMHA1	0.944443207	0.004544096
AC011558.5	HMHA1	0.948938381	0.003844367
AC024028.1	HMHB1	0.964355341	0.001883169
RP11-498J9.2	HMHB1	1	0
RP11-34P13.14	HMHB1	0.978552256	0.000685076
RP11-93O14.2	HMHB1	0.982998398	0.000431125
RP11-485G7.6	HMHB1	0.965304842	0.001784749
RP11-78A19.3	HMHB1	0.983256999	0.000418145
Z69720.3	HMHB1	0.986539728	0.000270549
AC011558.5	HMMR	-0.92644674	0.007916159

CTA-315H11.2	HNF4A	-0.945221942	0.004418769
CCDC144NL-AS1	CDHR3	-0.911009769	0.011526523
RP11-66D17.5	HNF4A	0.955480208	0.002928898
RP11-66D17.5	CDHR3	0.82386305	0.043804082
RP11-126K1.8	CDHR3	0.882523163	0.019890573
RP3-438O4.4	CDHR3	0.90214823	0.01389399
NUP50-AS1	CDHR3	0.89655446	0.015497985
RP11-126K1.8	HNF4A	0.977356586	0.000763281
TOPORS-AS1	CDHR3	0.911363584	0.011436439
RP3-438O4.4	HNF4A	0.993629202	6.08E-05
AP001062.8	CDHR3	0.90869336	0.012124747
NUP50-AS1	HNF4A	0.986410485	0.000275758
PSMD5-AS1	HNF4A	0.984141525	0.000375243
TOPORS-AS1	HNF4A	0.977653221	0.000743488
AC087294.2	HNF4A	0.999409974	5.22E-07
AP001062.8	HNF4A	0.993703254	5.93E-05
RP11-455F5.3	HNF4A	0.999313753	7.06E-07
RP11-326C3.2	HNF4A	0.986828321	0.000259097
AP006621.8	HNF4A	0.985294392	0.000322792
CTB-191K22.5	CDHR3	0.883677833	0.019509301
JHDM1D-AS1	HNF4A	0.999673839	1.60E-07
CDC37L1-AS1	CDHR3	0.910705756	0.011604201
RP11-20I23.6	HNF4A	0.996085291	2.30E-05
RP11-160E2.19	HNF4A	0.941291942	0.005068781
AC005786.7	HNF4A	0.99163688	0.00010462
CCDC144NL-AS1	ASB2	-0.898180947	0.015022894
AC005944.2	HNF4A	0.969583001	0.00137372
RP11-126K1.8	ASB2	0.856060758	0.029586655
RP3-438O4.4	ASB2	0.873547452	0.022974367
NUP50-AS1	ASB2	0.872339948	0.02340539
CTB-191K22.5	HNF4A	0.981178346	0.000528048
TOPORS-AS1	ASB2	0.889450151	0.017656374
AC087294.2	ASB2	0.909060339	0.012028997
AP001062.8	ASB2	0.883216171	0.019661318
RP11-20I23.8	HNF4A	0.999639543	1.95E-07
CDC37L1-AS1	HNF4A	0.995257589	3.37E-05
RP5-1142A6.10	HNF4A	0.985228083	0.000325703
RP11-556I13.1	HNF4A	0.999651528	1.82E-07
AC024028.1	HOPX	0.963465796	0.00197774
RP11-498J9.2	HOPX	0.999976925	7.99E-10
AC005786.7	ASB2	0.911211979	0.011474997
RP11-34P13.14	HOPX	0.977957225	0.000723471
CTB-191K22.5	ASB2	0.858807873	0.028495477
RP11-93O14.2	HOPX	0.98379307	0.000391868
CDC37L1-AS1	ASB2	0.882798752	0.019799253
RP11-485G7.6	HOPX	0.966405991	0.00167388
RP11-78A19.3	HOPX	0.984070209	0.000378616
Z69720.3	HOPX	0.985815269	0.000300383
CCDC144NL-AS1	SOX6	-0.868762153	0.02470488
RP11-156P1.3	SOX6	-0.813345534	0.049008324
CTA-315H11.2	SOX6	-0.895897653	0.015691854
AC024028.1	HOXA10	0.929452715	0.007289825
RP11-498J9.2	HOXA10	0.988359877	0.00020245
RP11-34P13.14	HOXA10	0.95169334	0.003443937
RP11-93O14.2	HOXA10	0.979445827	0.000629369
RP11-485G7.6	HOXA10	0.976237391	0.000840283
RP11-78A19.3	HOXA10	0.973486662	0.001045117
Z69720.3	HOXA10	0.970910246	0.001257013
AC024028.1	HOXA9	0.933677657	0.006452115
RP11-498J9.2	HOXA9	0.992579002	8.24E-05
RP11-34P13.14	HOXA9	0.95786454	0.002625692
RP11-93O14.2	HOXA9	0.989475909	0.000165552
RP11-485G7.6	HOXA9	0.986174956	0.000285377

RP11-78A19.3	HOXA9	0.990455218	0.00013622
RP11-160E2.19	SOX6	0.848794079	0.032566318
LA16c-359F1.1	HOXA9	0.91952533	0.009453675
Z69720.3	HOXA9	0.969979283	0.001338337
RP11-160E2.19	HPCAL1	0.96373963	0.001948384
RMRP	SOX6	0.910388721	0.011685475
AC011558.5	HPCAL1	0.988677948	0.000191558
RP11-66D17.5	HPD	0.974172331	0.000991988
LL21NC02-21A1.1	SOX6	0.841614255	0.035642431
RP11-126K1.8	HPD	0.999046755	1.36E-06
RP3-438O4.4	HPD	0.970835375	0.00126346
CCDC144NL-AS1	USP12PX	-0.888931741	0.017819159
NUP50-AS1	HPD	0.988873472	0.000185011
PSMD5-AS1	HPD	0.966581945	0.00165649
TOPORS-AS1	HPD	0.944862253	0.004476443
AC087294.2	HPD	0.980218494	0.000583092
AP001062.8	HPD	0.991791054	0.000100804
RP11-455F5.3	HPD	0.979881685	0.000603048
RP11-326C3.2	HPD	0.943974434	0.004620368
AP006621.8	HPD	0.962444359	0.002089155
JHDM1D-AS1	HPD	0.972316804	0.001138931
RP11-20I23.6	HPD	0.962866108	0.002042787
AC005786.7	HPD	0.964883361	0.001828115
AC005944.2	HPD	0.964029376	0.001917558
CTB-191K22.5	HPD	0.989263707	0.000172283
RP11-20I23.8	HPD	0.972649702	0.001111829
CDC37L1-AS1	HPD	0.965934817	0.00172089
RP5-1142A6.10	HPD	0.947267617	0.00409774
RP11-556I13.1	HPD	0.972073138	0.001158974
RP5-1033H22.2	HPGD	0.959609823	0.002414104
RP11-21J18.1	HPGD	0.971761277	0.001184879
RP11-298J23.8	HPGD	0.942083822	0.004934292
RP11-165D6.1	HPGD	0.979671991	0.000615642
RP3-339A18.6	HPGDS	0.984125313	0.000376008
AC011558.5	USP12PX	0.838722154	0.036918353
CCDC144NL-AS1	CRISPLD2	-0.895405832	0.015837783
CTA-315H11.2	HPS1	-0.918932034	0.009591633
RP11-126K1.8	CRISPLD2	0.848032317	0.032886481
RP3-438O4.4	CRISPLD2	0.864732328	0.026208495
NUP50-AS1	CRISPLD2	0.864251194	0.026390836
RP11-66D17.5	HPS1	0.975602012	0.000885631
TOPORS-AS1	CRISPLD2	0.880661876	0.0205126
AC087294.2	CRISPLD2	0.901636069	0.014037336
AP001062.8	CRISPLD2	0.875169659	0.02240133
RP11-455F5.3	CRISPLD2	0.912991146	0.011026459
RP11-126K1.8	HPS1	0.992330497	8.80E-05
RP3-438O4.4	HPS1	0.991253783	0.00011441
JHDM1D-AS1	CRISPLD2	0.910820493	0.011574855
NUP50-AS1	HPS1	0.996308046	2.04E-05
PSMD5-AS1	HPS1	0.979852153	0.000604814
AC005786.7	CRISPLD2	0.903968705	0.013390214
AC005944.2	CRISPLD2	0.913220279	0.010969323
CTB-191K22.5	CRISPLD2	0.851158942	0.031581804
RP11-20I23.8	CRISPLD2	0.916523827	0.010161565
CDC37L1-AS1	CRISPLD2	0.874736507	0.022553663
TOPORS-AS1	HPS1	0.973970741	0.001007466
RP11-556I13.1	CRISPLD2	0.910776217	0.011586175
AC087294.2	HPS1	0.996968492	1.38E-05
CCDC144NL-AS1	MAFA	-0.905293254	0.013029322
AP001062.8	HPS1	0.999804776	5.72E-08
RP11-126K1.8	MAFA	0.858465552	0.028630391
RP3-438O4.4	MAFA	0.869608297	0.024394535
NUP50-AS1	MAFA	0.870654731	0.024013312

RP11-455F5.3	HPS1	0.995798839	2.64E-05
TOPORS-AS1	MAFA	0.88093247	0.0204216
AC087294.2	MAFA	0.907254758	0.012503637
AP001062.8	MAFA	0.882266342	0.019975856
RP11-326C3.2	HPS1	0.971126515	0.001238482
AP006621.8	HPS1	0.977948007	0.000724074
JHDM1D-AS1	HPS1	0.99279157	7.78E-05
JHDM1D-AS1	MAFA	0.916008839	0.010285514
RP11-20I23.6	HPS1	0.987660405	0.000227459
AC005786.7	HPS1	0.988783558	0.000188007
AC005786.7	MAFA	0.906666898	0.012660086
AC005944.2	HPS1	0.974360049	0.000977683
CTB-191K22.5	MAFA	0.858912213	0.028454415
CTB-191K22.5	HPS1	0.993244488	6.83E-05
CDC37L1-AS1	MAFA	0.879697894	0.020838353
RP11-20I23.8	HPS1	0.992983284	7.37E-05
RP11-556I13.1	MAFA	0.915940546	0.010302006
CDC37L1-AS1	HPS1	0.989169654	0.000175309
CCDC144NL-AS1	TC2N	-0.88953134	0.017630945
RP5-1142A6.10	HPS1	0.976559721	0.00081773
RP11-556I13.1	HPS1	0.992677079	8.02E-05
AC024028.1	HRH4	0.997260821	1.12E-05
RP11-498J9.2	HRH4	0.979735225	0.000611831
RP11-34P13.14	HRH4	0.962690902	0.002061987
RP11-93O14.2	HRH4	0.940321936	0.005235936
RP11-473M20.11	HRH4	0.977062023	0.000783192
RP11-78A19.3	HRH4	0.947704352	0.004030742
Z69720.3	HRH4	0.954591827	0.00304604
RP11-118G23.2	HS2ST1	0.948503101	0.003909613
RP11-770G2.2	HS3ST2	0.941285114	0.005069949
RP11-34P13.14	HS6ST1	0.924247148	0.008390388
Z69720.3	HS6ST1	0.917401803	0.009951932
RP11-118G23.2	HSD17B12	0.974436323	0.000971899
CTA-315H11.2	HSF4	-0.919555477	0.009446691
RP11-66D17.5	HSF4	0.940685779	0.005172926
RP11-126K1.8	HSF4	0.970857453	0.001261557
RP3-438O4.4	HSF4	0.934450946	0.006304196
NUP50-AS1	HSF4	0.969540766	0.001377518
PSMD5-AS1	HSF4	0.990039973	0.000148309
TOPORS-AS1	HSF4	0.923874735	0.008472009
AC087294.2	HSF4	0.962534979	0.002079148
AC011558.5	TC2N	0.854287812	0.030301179
CCDC144NL-AS1	FANK1	-0.864209497	0.026406666
AP001062.8	HSF4	0.967789082	0.001539605
RP11-455F5.3	HSF4	0.967322274	0.001584303
RP11-326C3.2	HSF4	0.960941547	0.002258551
AP006621.8	HSF4	0.983815234	0.0003908
JHDM1D-AS1	HSF4	0.955969871	0.002865299
RP11-20I23.6	HSF4	0.964573552	0.001860319
RP11-160E2.19	HSF4	0.943135954	0.004758344
AC005786.7	HSF4	0.958854636	0.002504583
AC005944.2	HSF4	0.995971074	2.43E-05
CTB-191K22.5	HSF4	0.972114546	0.001155556
RP11-20I23.8	HSF4	0.961294044	0.002218233
CDC37L1-AS1	HSF4	0.935914839	0.006028766
RP5-1142A6.10	HSF4	0.962700007	0.002060987
RP11-556I13.1	HSF4	0.955652526	0.002906439
CTA-315H11.2	HSPA6	-0.928626274	0.007459517
RP11-66D17.5	HSPA6	0.95443113	0.003067471
RP11-126K1.8	HSPA6	0.990071847	0.000147363
RP3-438O4.4	HSPA6	0.958192911	0.002585213
RMRP	FANK1	0.828316469	0.041682646
NUP50-AS1	HSPA6	0.983424404	0.000409849

PSMD5-AS1	HSPA6	0.992181793	9.14E-05
LL21NC02-21A1.1	FANK1	0.822795964	0.04431969
TOPORS-AS1	HSPA6	0.941562123	0.005022696
AC087294.2	HSPA6	0.980236144	0.000582055
RP11-118G23.2	ACHE	-0.842746947	0.035148466
RP3-339A18.6	ACHE	-0.840448041	0.036154398
RP11-767C1.1	ACHE	0.838859543	0.036857264
CTC-1337H24.3	ACHE	0.858126721	0.028764227
LL21NC02-21A1.1	ACHE	0.906512812	0.012701249
CCDC144NL-AS1	EPHB1	-0.886542896	0.018578533
AP001062.8	HSPA6	0.985851246	0.000298865
RP11-66D17.5	EPHB1	0.903604765	0.013490208
RP11-455F5.3	HSPA6	0.983935254	0.000385041
RP11-326C3.2	HSPA6	0.969074502	0.001419791
AP006621.8	HSPA6	0.988303508	0.000204412
JHDM1D-AS1	HSPA6	0.974451418	0.000970757
RP11-20I23.6	HSPA6	0.975263954	0.00091024
RP11-160E2.19	HSPA6	0.932401657	0.006699857
AC005786.7	HSPA6	0.969765044	0.001357409
AC005944.2	HSPA6	0.988514797	0.000197107
CTB-191K22.5	HSPA6	0.983478884	0.000407166
RP11-20I23.8	HSPA6	0.977567755	0.000749164
CDC37L1-AS1	HSPA6	0.957316629	0.002693923
RP5-1142A6.10	HSPA6	0.966786484	0.001636387
RP11-556I13.1	HSPA6	0.974172584	0.000991969
AC005944.2	HSPD1	-0.919593518	0.009437881
RP3-339A18.6	HSPG2	0.965813582	0.00173309
AC024028.1	ICAM1	0.964343197	0.001884444
RP11-498J9.2	ICAM1	0.998407131	3.80E-06
RP11-34P13.14	ICAM1	0.967363378	0.001580342
RP11-93O14.2	ICAM1	0.974586634	0.000960552
RP11-485G7.6	ICAM1	0.967609521	0.001556724
AC011558.5	EPHB1	0.895339058	0.015857646
CCDC144NL-AS1	PHOSPHO1	-0.863134979	0.026816171
RP11-473M20.11	ICAM1	0.917427202	0.009945899
RP11-78A19.3	ICAM1	0.974972457	0.000931729
Z69720.3	ICAM1	0.98168603	0.000500031
RP11-160E2.19	ICAM3	0.953669568	0.003170039
AC011558.5	ICAM3	0.98841335	0.000200598
AC024028.1	ICOS	0.919811493	0.009387481
RP11-473M20.11	ICOS	0.969347578	0.001394956
AC024028.1	ICOSLG	0.971537396	0.001203651
RP11-498J9.2	ICOSLG	0.999360304	6.14E-07
RP11-34P13.14	ICOSLG	0.975593153	0.000886272
RP11-93O14.2	ICOSLG	0.97743135	0.000758268
RP11-485G7.6	ICOSLG	0.960476723	0.002312265
RP11-473M20.11	ICOSLG	0.92659007	0.007885723
RP11-78A19.3	ICOSLG	0.978524566	0.000686839
Z69720.3	ICOSLG	0.983002939	0.000430895
RP11-160E2.19	IDH1	-0.931328455	0.006911752
AC011558.5	IDH1	-0.995607541	2.89E-05
RP11-66D17.5	IDO1	0.988213003	0.000207581
RP11-126K1.8	IDO1	0.980209311	0.000583631
RP3-438O4.4	IDO1	0.98838154	0.000201699
LL21NC02-21A1.1	PHOSPHO1	0.825764197	0.042892437
NUP50-AS1	IDO1	0.998005945	5.96E-06
PSMD5-AS1	IDO1	0.963875948	0.001933851
CCDC144NL-AS1	SELENBP1	-0.85902943	0.028408319
TOPORS-AS1	IDO1	0.985417986	0.000317402
AC087294.2	IDO1	0.988509491	0.000197289
AP001062.8	IDO1	0.994100464	5.21E-05
RP11-455F5.3	IDO1	0.983951273	0.000384276
RP11-326C3.2	IDO1	0.955035408	0.002987267

AP006621.8	IDO1	0.959386264	0.002440718
JHDM1D-AS1	IDO1	0.981461317	0.000512338
RP11-20I23.6	IDO1	0.981616254	0.000503837
AC005786.7	IDO1	0.992672877	8.03E-05
AC005944.2	IDO1	0.972756711	0.001103185
CTB-191K22.5	IDO1	0.993377512	6.56E-05
RP11-20I23.8	IDO1	0.982116421	0.000476874
CDC37L1-AS1	IDO1	0.983303696	0.000415823
RP5-1142A6.10	IDO1	0.978950901	0.000659934
RP11-556I13.1	IDO1	0.981371616	0.000517293
AC024028.1	IDS	0.995548361	2.97E-05
RP11-498J9.2	IDS	0.935399764	0.006124991
RP11-34P13.14	IDS	0.930526272	0.007072237
RP11-473M20.11	IDS	0.996624474	1.71E-05
AC024028.1	IER3	0.961525148	0.002191994
LL21NC02-21A1.1	SELENBP1	0.838889568	0.03684392
RP11-498J9.2	IER3	0.999498693	3.77E-07
RP11-34P13.14	IER3	0.980068954	0.000591911
CCDC144NL-AS1	PTPRN	-0.869372773	0.024480731
RP11-93O14.2	IER3	0.984122467	0.000376143
RP11-485G7.6	IER3	0.963416277	0.001983072
RP11-78A19.3	IER3	0.982045138	0.000480672
Z69720.3	IER3	0.98835517	0.000202614
AC024028.1	IFFO2	0.996551715	1.78E-05
RP11-498J9.2	IFFO2	0.948101944	0.003970221
RP11-34P13.14	IFFO2	0.950482024	0.003617335
RP11-473M20.11	IFFO2	0.988085562	0.000212085
Z69720.3	IFFO2	0.922645711	0.008744097
CTA-315H11.2	IFI16	-0.95050321	0.003614266
RP11-126K1.8	IFI16	0.917474403	0.009934692
RP3-438O4.4	IFI16	0.938540096	0.005549903
NUP50-AS1	IFI16	0.936335587	0.005950715
PSMD5-AS1	IFI16	0.979630982	0.00061812
TOPORS-AS1	IFI16	0.95059068	0.00360161
AC087294.2	IFI16	0.961900467	0.002149709
AP001062.8	IFI16	0.943749983	0.004657107
RP11-455F5.3	IFI16	0.967800954	0.001538476
RP11-326C3.2	IFI16	0.992737452	7.89E-05
AP006621.8	IFI16	0.983989754	0.00038244
LL21NC02-21A1.1	PTPRN	0.817973438	0.0466849
JHDM1D-AS1	IFI16	0.966809223	0.00163416
RP11-20I23.6	IFI16	0.980467579	0.000568547
CCDC144NL-AS1	VSIG1	-0.898123201	0.01503964
RP11-160E2.19	IFI16	0.99341726	6.49E-05
RP11-66D17.5	VSIG1	0.911250309	0.011465243
AC005786.7	IFI16	0.964958828	0.001820312
AC005944.2	IFI16	0.955596733	0.002913701
CTB-191K22.5	IFI16	0.923490793	0.008556559
RP11-20I23.8	IFI16	0.970339797	0.001306545
CDC37L1-AS1	IFI16	0.943110121	0.004762627
RP5-1142A6.10	IFI16	0.98404106	0.000379999
RP11-556I13.1	IFI16	0.966784138	0.001636617
AC011558.5	IFI16	0.92438126	0.008361089
RP11-66D17.5	IFI27	0.994845095	3.98E-05
RP11-126K1.8	IFI27	0.966248832	0.001689488
RP3-438O4.4	IFI27	0.944930588	0.004465457
NUP50-AS1	IFI27	0.980788061	0.000550102
PSMD5-AS1	IFI27	0.929235785	0.007334183
TOPORS-AS1	IFI27	0.937673566	0.00570582
AC087294.2	IFI27	0.946551961	0.004208697
AP001062.8	IFI27	0.966640804	0.001650692
RP11-455F5.3	IFI27	0.940034901	0.005285908
JHDM1D-AS1	IFI27	0.931477401	0.006882151

RP11-20I23.6	IFI27	0.933772216	0.006433938
AC005786.7	IFI27	0.955136345	0.002973972
AC011558.5	VSIG1	0.877564347	0.021568048
CCDC144NL-AS1	ARHGAP8	-0.82739376	0.04211815
CTA-315H11.2	ARHGAP8	-0.908475606	0.012181735
AC005944.2	IFI27	0.965730809	0.001741444
CTB-191K22.5	IFI27	0.985457386	0.000315694
RP11-20I23.8	IFI27	0.934056396	0.006379459
CDC37L1-AS1	IFI27	0.937680447	0.005704574
LL21NC02-21A1.1	IFI27	0.957060423	0.002726125
RP5-1142A6.10	IFI27	0.934304477	0.006332085
RP11-556I13.1	IFI27	0.931226235	0.006932102
RP11-498J9.2	IFI27L2	0.950741038	0.003579906
RP11-485G7.6	IFI27L2	0.97113771	0.001237526
Z69720.3	IFI27L2	0.947848229	0.004008789
CTA-315H11.2	IFITM2	-0.95486378	0.00300994
PSMD5-AS1	IFITM2	0.962619045	0.002069887
AC087294.2	IFITM2	0.927875197	0.007615385
RP11-160E2.19	ARHGAP8	0.905225334	0.013047712
RP11-455F5.3	IFITM2	0.937366701	0.005761542
RP11-326C3.2	IFITM2	0.978255521	0.000704093
AP006621.8	IFITM2	0.968771725	0.001447581
JHDM1D-AS1	IFITM2	0.936048959	0.006003832
RP11-20I23.6	IFITM2	0.953578786	0.003182376
LL21NC02-21A1.1	ARHGAP8	0.899493409	0.014644725
RP11-160E2.19	IFITM2	0.998402136	3.83E-06
AC005786.7	IFITM2	0.929306811	0.007319645
AC005944.2	IFITM2	0.931069178	0.006963426
RP11-20I23.8	IFITM2	0.940791362	0.005154711
RP5-1142A6.10	IFITM2	0.958178945	0.002586928
RP11-556I13.1	IFITM2	0.93602114	0.006009
AC011558.5	IFITM2	0.955275979	0.002955628
AC024028.1	IFNGR1	0.996804259	1.53E-05
RP11-498J9.2	IFNGR1	0.97279573	0.001100042
RP11-34P13.14	IFNGR1	0.95186656	0.003419484
RP11-93O14.2	IFNGR1	0.930560719	0.007065309
RP11-473M20.11	IFNGR1	0.980231925	0.000582303
RP11-78A19.3	IFNGR1	0.936648291	0.005893029
Z69720.3	IFNGR1	0.942870447	0.004802449
RP11-77G23.2	IFT81	0.935182197	0.00616586
CTD-2541M15.3	IFT81	0.985479916	0.000314719
CTA-315H11.2	IGF2	-0.953110946	0.00324633
RP11-66D17.5	IGF2	0.943138091	0.00475799
RP11-126K1.8	IGF2	0.970185821	0.001320077
RP3-438O4.4	IGF2	0.989087561	0.000177972
NUP50-AS1	IGF2	0.980597588	0.000561028
PSMD5-AS1	IGF2	0.987118513	0.00024783
TOPORS-AS1	IGF2	0.977455552	0.000756649
RP3-339A18.6	ACPL2	-0.871865766	0.023575695
CCDC144NL-AS1	SPEG	-0.876912339	0.021793434
AC087294.2	IGF2	0.997652836	8.26E-06
AP001062.8	IGF2	0.988880423	0.00018478
RP11-455F5.3	IGF2	0.998728194	2.43E-06
RP11-326C3.2	IGF2	0.993373582	6.57E-05
AP006621.8	IGF2	0.989450026	0.000166366
JHDM1D-AS1	IGF2	0.999300749	7.33E-07
RP11-20I23.6	IGF2	0.998075047	5.55E-06
RP11-160E2.19	IGF2	0.955079641	0.002981437
AC005786.7	IGF2	0.990881336	0.000124346
AC005944.2	IGF2	0.968583044	0.001465033
CTB-191K22.5	IGF2	0.973484367	0.001045297
RP11-20I23.8	IGF2	0.999659784	1.74E-07
CDC37L1-AS1	IGF2	0.99136885	0.000111424

RP5-1142A6.10	IGF2	0.988988845	0.000181201
RP11-556I13.1	IGF2	0.999288951	7.58E-07
PSMD5-AS1	IGF2BP1	-0.955363699	0.002944132
RP11-326C3.2	IGF2BP1	-0.943667989	0.004670564
AP006621.8	IGF2BP1	-0.952379835	0.003347527
RP11-20I23.6	IGF2BP1	-0.930792265	0.007018823
RP11-160E2.19	IGF2BP1	-0.972807248	0.001099115
LL21NC02-21A1.1	SPEG	0.813667502	0.048844986
AC005786.7	IGF2BP1	-0.918795309	0.009623563
AC005944.2	IGF2BP1	-0.956550309	0.0027908
AC011558.5	SPEG	0.823481403	0.043988168
RP11-77G23.2	FCGR1B	-0.822199543	0.044609101
RP11-66D17.5	FCGR1B	0.908735609	0.012113704
RP11-126K1.8	FCGR1B	0.869103132	0.024579592
RP3-438O4.4	FCGR1B	0.896677285	0.01546186
RP5-1142A6.10	IGF2BP1	-0.947186302	0.004110274
PSMD5-AS1	FCGR1B	0.905537724	0.012963233
AC011558.5	IGF2BP1	-0.928563879	0.007472406
AC087294.2	FCGR1B	0.90504065	0.01309778
AP001062.8	FCGR1B	0.903778964	0.013442301
RP11-455F5.3	FCGR1B	0.900355499	0.014398853
RP11-326C3.2	FCGR1B	0.902082291	0.013912405
AP006621.8	FCGR1B	0.897899407	0.015104621
JHDM1D-AS1	FCGR1B	0.897110266	0.015334835
CTA-315H11.2	IGF2BP2	-0.943920618	0.004629164
RP11-160E2.19	FCGR1B	0.90099799	0.014216918
RP11-66D17.5	IGF2BP2	0.947641716	0.004040318
RP11-126K1.8	IGF2BP2	0.975699822	0.000878573
CTB-191K22.5	FCGR1B	0.911507466	0.011399904
RP11-20I23.8	FCGR1B	0.902883875	0.013689335
CDC37L1-AS1	FCGR1B	0.891641231	0.01697628
RP3-438O4.4	IGF2BP2	0.992083711	9.38E-05
RP11-556I13.1	FCGR1B	0.897053724	0.015351395
AC011558.5	FCGR1B	0.838418337	0.037053613
CCDC144NL-AS1	SYNE2	-0.886901664	0.018463517
NUP50-AS1	IGF2BP2	0.982544355	0.00045439
PSMD5-AS1	IGF2BP2	0.980481362	0.000567748
TOPORS-AS1	IGF2BP2	0.977960245	0.000723273
AC087294.2	IGF2BP2	0.998055149	5.67E-06
AP001062.8	IGF2BP2	0.991602893	0.000105471
RP11-455F5.3	IGF2BP2	0.998407457	3.80E-06
RP11-326C3.2	IGF2BP2	0.986536916	0.000270662
AP006621.8	IGF2BP2	0.983076225	0.000427198
JHDM1D-AS1	IGF2BP2	0.998915464	1.76E-06
RP11-20I23.6	IGF2BP2	0.994058032	5.29E-05
RP11-160E2.19	IGF2BP2	0.93792817	0.005659789
AC005786.7	IGF2BP2	0.988401975	0.000200991
AC005944.2	IGF2BP2	0.960099442	0.00235632
CTB-191K22.5	IGF2BP2	0.974788857	0.00094539
RP11-20I23.8	IGF2BP2	0.998388928	3.89E-06
CDC37L1-AS1	IGF2BP2	0.992329791	8.80E-05
RP5-1142A6.10	IGF2BP2	0.982254646	0.000469552
RP11-556I13.1	IGF2BP2	0.998896936	1.82E-06
RP11-498J9.2	IGFBP4	0.926839526	0.007832888
RP11-93O14.2	IGFBP4	0.941879084	0.004968894
RP11-485G7.6	IGFBP4	0.984117581	0.000376374
RP11-78A19.3	IGFBP4	0.951905715	0.003413968
AC011558.5	SYNE2	0.852228407	0.031141263
CCDC144NL-AS1	ZC3H6	-0.867008529	0.025354005
LA16c-359F1.1	IGFBP4	0.949069409	0.003824833
AC024028.1	IGHM	0.954569976	0.003048949
RP11-498J9.2	IGHM	0.99885472	1.97E-06
RP11-34P13.14	IGHM	0.97237729	0.001133983

RP11-93O14.2	IGHM	0.984670937	0.000350669
RP11-485G7.6	IGHM	0.975412043	0.000899419
RP11-78A19.3	IGHM	0.986487207	0.00027266
Z69720.3	IGHM	0.983834048	0.000389895
AC024028.1	IGHV@	0.963901611	0.001931121
RP11-498J9.2	IGHV@	0.999982752	4.46E-10
RP11-34P13.14	IGHV@	0.97785567	0.000730128
RP11-93O14.2	IGHV@	0.983075959	0.000427211
RP11-485G7.6	IGHV@	0.965872033	0.001727202
RP11-78A19.3	IGHV@	0.983154265	0.000423278
Z69720.3	IGHV@	0.986150733	0.000286375
AC024028.1	IGJ	0.963071058	0.002020439
RP11-498J9.2	IGJ	0.999941374	5.16E-09
RP11-34P13.14	IGJ	0.977540348	0.000750989
RP11-93O14.2	IGJ	0.982470087	0.000458253
RP11-485G7.6	IGJ	0.966914978	0.00162382
LL21NC02-21A1.1	ZC3H6	0.819652181	0.045855067
RP11-78A19.3	IGJ	0.983028646	0.000429596
Z69720.3	IGJ	0.986847237	0.000258355
CCDC144NL-AS1	EPHA1	-0.876711561	0.021863064
AC024028.1	IGLON5	0.96070168	0.002286192
RP11-498J9.2	IGLON5	0.999718512	1.19E-07
RP11-34P13.14	IGLON5	0.976991324	0.000788008
RP11-93O14.2	IGLON5	0.981512676	0.000509512
RP11-485G7.6	IGLON5	0.967231998	0.001593021
RP11-78A19.3	IGLON5	0.980854621	0.000546309
Z69720.3	IGLON5	0.988717681	0.000190218
RP11-770G2.2	IGSF3	0.938795306	0.005504385
AC005943.6	IGSF3	0.955002013	0.002991672
RP11-473M20.11	IGSF8	0.948453363	0.003917102
RP5-1033H22.2	IKBKAP	0.944842825	0.004479568
RP11-21J18.1	IKBKAP	0.93791428	0.005662296
RP11-298J23.8	IKBKAP	0.930636259	0.007050127
RP11-165D6.1	IKBKAP	0.961102715	0.002240072
RP11-473M20.11	IKZF2	0.917451926	0.009940028
CTD-2139B15.2	IKZF3	-0.9224507	0.008787654
AC024028.1	IL10RA	0.996469442	1.87E-05
RP11-498J9.2	IL10RA	0.955873692	0.002877737
RP11-34P13.14	IL10RA	0.93165603	0.006846734
RP11-473M20.11	IL10RA	0.991678636	0.00010358
Z69720.3	IL10RA	0.921300579	0.009046682
CTA-315H11.2	IL11RA	-0.958543743	0.002542308
AC011558.5	EPHA1	0.828394318	0.041645999
CCDC144NL-AS1	SSTR3	-0.890717581	0.01726141
RP11-66D17.5	IL11RA	0.928939481	0.007394982
RP11-126K1.8	IL11RA	0.95851615	0.00254567
RP3-438O4.4	IL11RA	0.983520695	0.000405114
NUP50-AS1	IL11RA	0.971877253	0.001175212
PSMD5-AS1	IL11RA	0.986156182	0.00028615
TOPORS-AS1	IL11RA	0.975734802	0.000876056
AC087294.2	IL11RA	0.993510686	6.30E-05
AP001062.8	IL11RA	0.981076943	0.000533735
RP11-455F5.3	IL11RA	0.995345812	3.24E-05
RP11-326C3.2	IL11RA	0.997044238	1.31E-05
AP006621.8	IL11RA	0.989683117	0.000159108
JHDM1D-AS1	IL11RA	0.996838195	1.50E-05
RP11-20I23.6	IL11RA	0.99787247	6.78E-06
RP11-160E2.19	IL11RA	0.966051318	0.001709206
AC005786.7	IL11RA	0.988347916	0.000202866
AC005944.2	IL11RA	0.964300771	0.001888904
CTB-191K22.5	IL11RA	0.963157779	0.00201102
RP11-20I23.8	IL11RA	0.997455087	9.71E-06
CDC37L1-AS1	IL11RA	0.986964576	0.000253776

RP5-1142A6.10	IL11RA	0.990564475	0.000133124
RP11-556I13.1	IL11RA	0.996855317	1.48E-05
CTD-2139B15.2	IL15RA	0.974762886	0.000947331
AC011558.5	SSTR3	0.857736948	0.028918549
CCDC144NL-AS1	TCEANC	-0.884229878	0.019328264
CTA-315H11.2	IL16	-0.968259019	0.001495245
RP11-126K1.8	IL16	0.928982717	0.007386095
RP3-438O4.4	IL16	0.948154721	0.003962221
NUP50-AS1	IL16	0.942078581	0.004935176
PSMD5-AS1	IL16	0.985625571	0.000308451
TOPORS-AS1	IL16	0.949291519	0.00379183
AC087294.2	IL16	0.97029504	0.001310471
AP001062.8	IL16	0.952363186	0.003349849
RP11-455F5.3	IL16	0.97640325	0.00082864
RP11-326C3.2	IL16	0.997641369	8.34E-06
AP006621.8	IL16	0.990441834	0.000136601
JHDM1D-AS1	IL16	0.975929076	0.000862141
RP11-20I23.6	IL16	0.984929858	0.000338952
RP11-160E2.19	IL16	0.991898261	9.82E-05
RP11-160E2.19	TCEANC	0.887021785	0.018425084
AC005786.7	IL16	0.967217921	0.001594382
AC005944.2	IL16	0.958117127	0.002594528
CTB-191K22.5	IL16	0.931597623	0.006858304
RMRP	TCEANC	0.887846657	0.018162205
RP11-20I23.8	IL16	0.978712671	0.000674902
CDC37L1-AS1	IL16	0.954218418	0.003095952
LL21NC02-21A1.1	TCEANC	0.827743692	0.041952739
RP5-1142A6.10	IL16	0.982918854	0.000435156
RP11-556I13.1	IL16	0.975907885	0.000863653
CCDC144NL-AS1	RHD	-0.846828488	0.033395451
CTA-315H11.2	RHD	-0.91006905	0.011767702
RP11-160E2.19	IL17RA	0.928681661	0.007448085
AC011558.5	IL17RA	0.973059902	0.001078877
CTD-2139B15.2	IL17RC	0.941463376	0.005039516
AC024028.1	IL1A	0.963943057	0.001926716
RP11-498J9.2	IL1A	0.999996233	2.13E-11
RP11-34P13.14	IL1A	0.978705833	0.000675335
RP11-93O14.2	IL1A	0.983109768	0.000425511
RP11-485G7.6	IL1A	0.965501471	0.001764694
RP11-78A19.3	IL1A	0.983351249	0.000413464
Z69720.3	IL1A	0.986850835	0.000258214
AC024028.1	IL1B	0.967531695	0.001564172
RP11-498J9.2	IL1B	0.999922142	9.09E-09
RP11-34P13.14	IL1B	0.978593926	0.000682426
RP11-160E2.19	RHD	0.892615511	0.016677995
RP11-93O14.2	IL1B	0.981420158	0.000514609
RP11-485G7.6	IL1B	0.962927165	0.002036116
RP11-473M20.11	IL1B	0.9196131	0.009433348
RMRP	RHD	0.846690878	0.033453865
RP11-78A19.3	IL1B	0.982064259	0.000479651
Z69720.3	IL1B	0.985702351	0.000305173
LL21NC02-21A1.1	RHD	0.877030676	0.021752444
CCDC144NL-AS1	IL1R1	-0.943401972	0.004714354
RP11-126K1.8	IL1R1	0.93646332	0.005927119
CCDC144NL-AS1	FRMD4A	-0.848009125	0.032896251
PSMD5-AS1	IL1R1	0.942636285	0.004841513
AC087294.2	IL1R1	0.919090054	0.009554794
AP001062.8	IL1R1	0.919987864	0.009346796
RP11-455F5.3	IL1R1	0.92983662	0.007211646
RP11-326C3.2	IL1R1	0.928019369	0.007585343
AP006621.8	IL1R1	0.946162398	0.004269707
JHDM1D-AS1	IL1R1	0.917801257	0.009857257
RP11-20I23.8	IL1R1	0.919921386	0.009362121

RP11-556I13.1	IL1R1	0.917451486	0.009940132
RP11-498J9.2	IL1RAP	0.961571015	0.002186805
RP11-34P13.14	IL1RAP	0.98873229	0.000189727
RP11-93O14.2	IL1RAP	0.980429005	0.000570788
RP11-78A19.3	IL1RAP	0.969652233	0.001367505
RP11-680G24.6	IL1RAP	0.951050828	0.003535391
LA16c-359F1.1	IL1RAP	0.943047398	0.004773033
Z69720.3	IL1RAP	0.976847427	0.000797857
AC024028.1	IL1RL1	0.955345975	0.002946453
RP11-498J9.2	IL1RL1	0.994970373	3.79E-05
RMRP	FRMD4A	0.812223867	0.049579332
RP11-34P13.14	IL1RL1	0.992622468	8.14E-05
RP11-93O14.2	IL1RL1	0.988236262	0.000206764
LL21NC02-21A1.1	FRMD4A	0.843827973	0.034680058
RP11-485G7.6	IL1RL1	0.949353802	0.003782601
RP11-78A19.3	IL1RL1	0.984032436	0.000380409
CCDC144NL-AS1	NLRP6	-0.890202355	0.01742145
Z69720.3	IL1RL1	0.9927451	7.88E-05
AC024028.1	IL1RN	0.981174477	0.000528265
RP11-498J9.2	IL1RN	0.997291729	1.10E-05
RP11-34P13.14	IL1RN	0.979416961	0.000631132
RP11-93O14.2	IL1RN	0.972224549	0.0011465
RP11-485G7.6	IL1RN	0.946794667	0.004170904
RP11-473M20.11	IL1RN	0.941215374	0.005081879
RP11-78A19.3	IL1RN	0.974183656	0.000991122
Z69720.3	IL1RN	0.981154219	0.000529399
CTA-315H11.2	IL23A	-0.925178432	0.008187965
RP11-326C3.2	IL23A	0.932162123	0.006746872
AP006621.8	IL23A	0.919672448	0.009419616
RP11-160E2.19	IL23A	0.979453633	0.000628893
AC011558.5	IL23A	0.979937942	0.000599692
CTA-315H11.2	IL27RA	-0.965559435	0.001758803
RP3-438O4.4	IL27RA	0.942430759	0.004875928
NUP50-AS1	IL27RA	0.922594333	0.008755563
PSMD5-AS1	IL27RA	0.968283016	0.001492998
TOPORS-AS1	IL27RA	0.945743908	0.004335728
AC087294.2	IL27RA	0.959416624	0.002437095
AP001062.8	IL27RA	0.934719379	0.006253241
RP11-455F5.3	IL27RA	0.96454372	0.001863435
AC011558.5	NLRP6	0.857490543	0.02901631
AC024028.1	KEL	-0.821654035	0.044874575
RP11-498J9.2	KEL	-0.816922017	0.047208159
RP11-34P13.14	KEL	-0.884598117	0.019207954
RP11-93O14.2	KEL	-0.832753667	0.039617952
Z69720.3	KEL	-0.837294397	0.037556008
RP3-337H4.8	KEL	0.897909835	0.01510159
CCDC144NL-AS1	C11orf66	-0.892939306	0.016579424
RP11-326C3.2	IL27RA	0.992103918	9.33E-05
AP006621.8	IL27RA	0.975325388	0.000905743
JHDM1D-AS1	IL27RA	0.96844706	0.001477675
RP11-20I23.6	IL27RA	0.977979473	0.000722017
RP11-160E2.19	IL27RA	0.990662233	0.000130384
AC005786.7	IL27RA	0.959237231	0.002458539
AC005944.2	IL27RA	0.936585215	0.005904643
RP11-20I23.8	IL27RA	0.97043655	0.001298077
CDC37L1-AS1	IL27RA	0.951035097	0.003537644
RP5-1142A6.10	IL27RA	0.976783337	0.000802263
RP11-556I13.1	IL27RA	0.968543933	0.001468664
AC011558.5	IL27RA	0.922202497	0.008843244
AC024028.1	IL2RA	0.970149385	0.001323289
RP11-498J9.2	IL2RA	0.920245758	0.009287461
RP11-473M20.11	IL2RA	0.978237327	0.000705267
AC024028.1	IL2RB	0.960626133	0.002294931

RP11-498J9.2	IL2RB	0.983359645	0.000413048
RP11-34P13.14	IL2RB	0.996879796	1.46E-05
RP11-93O14.2	IL2RB	0.973709813	0.001027675
RP11-78A19.3	IL2RB	0.965675823	0.001747004
Z69720.3	IL2RB	0.987801413	0.000222301
AC011558.5	IL2RG	0.922884683	0.008690864
AC011558.5	C11orf66	0.860496642	0.02783433
AC024028.1	IL3	0.963754012	0.001946848
RP11-498J9.2	IL3	0.999953298	3.27E-09
RP11-34P13.14	IL3	0.980301499	0.000578225
RP11-93O14.2	IL3	0.98401821	0.000381085
RP11-485G7.6	IL3	0.964354526	0.001883254
RP11-78A19.3	IL3	0.983865613	0.000388378
Z69720.3	IL3	0.987560654	0.000231144
CTA-315H11.2	IL32	-0.942128592	0.004926741
RP11-66D17.5	IL32	0.946506501	0.004215794
RP11-126K1.8	IL32	0.965833065	0.001731126
RP3-438O4.4	IL32	0.988824308	0.000186646
NUP50-AS1	IL32	0.982329414	0.000465616
PSMD5-AS1	IL32	0.986030121	0.000291373
TOPORS-AS1	IL32	0.984645799	0.000351817
AC087294.2	IL32	0.996735833	1.60E-05
AP001062.8	IL32	0.987897626	0.000218815
RP11-455F5.3	IL32	0.997026487	1.32E-05
RP11-326C3.2	IL32	0.993121707	7.08E-05
AP006621.8	IL32	0.987655856	0.000227626
JHDM1D-AS1	IL32	0.997717201	7.81E-06
RP11-20I23.6	IL32	0.999864936	2.74E-08
RP11-160E2.19	IL32	0.958679549	0.002525795
CCDC144NL-AS1	ANK3	-0.891362702	0.017062022
AC005786.7	IL32	0.99543892	3.12E-05
RP11-66D17.5	ANK3	0.916810495	0.010092884
AC005944.2	IL32	0.972069085	0.001159309
CTB-191K22.5	IL32	0.97403972	0.001002156
RP11-20I23.8	IL32	0.998542844	3.18E-06
CDC37L1-AS1	IL32	0.990306534	0.00014049
RP5-1142A6.10	IL32	0.995041613	3.68E-05
RP11-556I13.1	IL32	0.997715167	7.82E-06
CTA-315H11.2	IL34	-0.945671004	0.00434728
RP11-66D17.5	IL34	0.949920587	0.003699123
RP11-126K1.8	IL34	0.973099958	0.001075686
RP3-438O4.4	IL34	0.99369661	5.95E-05
NUP50-AS1	IL34	0.983375147	0.000412281
PSMD5-AS1	IL34	0.981929225	0.000486879
TOPORS-AS1	IL34	0.979887644	0.000602693
AC087294.2	IL34	0.99888478	1.86E-06
AP001062.8	IL34	0.991520516	0.000107548
RP11-455F5.3	IL34	0.998828473	2.06E-06
RP11-326C3.2	IL34	0.988288651	0.00020493
AP006621.8	IL34	0.984064514	0.000378886
JHDM1D-AS1	IL34	0.999986318	2.81E-10
RP11-20I23.6	IL34	0.996466487	1.87E-05
AC011558.5	ANK3	0.860595274	0.027795943
CCDC144NL-AS1	TFF3	-0.884729861	0.019164998
RP11-160E2.19	IL34	0.943018289	0.004777866
AC005786.7	IL34	0.991404481	0.000110507
AC005944.2	IL34	0.964390986	0.001879427
CTB-191K22.5	IL34	0.976504556	0.000821569
RP11-20I23.8	IL34	0.99969561	1.39E-07
CDC37L1-AS1	IL34	0.995134413	3.55E-05
RP5-1142A6.10	IL34	0.985886342	0.000297387
RP11-556I13.1	IL34	0.999986396	2.78E-10
AC011558.5	IL4R	0.941453402	0.005041216

CTA-315H11.2	IL5RA	-0.959944288	0.002374556
RP11-66D17.5	IL5RA	0.931807443	0.006816782
RP11-126K1.8	IL5RA	0.963283636	0.001997389
RP3-438O4.4	IL5RA	0.984470884	0.000359858
NUP50-AS1	IL5RA	0.973960781	0.001008234
PSMD5-AS1	IL5RA	0.987395988	0.000237291
TOPORS-AS1	IL5RA	0.974061698	0.001000468
AC087294.2	IL5RA	0.994768538	4.10E-05
AP001062.8	IL5RA	0.983518165	0.000405238
RP11-455F5.3	IL5RA	0.996739014	1.59E-05
RP11-326C3.2	IL5RA	0.996368849	1.98E-05
AP006621.8	IL5RA	0.990718221	0.000128827
JHDM1D-AS1	IL5RA	0.997701288	7.92E-06
AC011558.5	TFF3	0.845599744	0.033918751
CCDC144NL-AS1	DDR1	-0.873722211	0.022912302
RP11-20I23.6	IL5RA	0.99747815	9.53E-06
RP11-66D17.5	DDR1	0.904266299	0.013308715
RP11-160E2.19	IL5RA	0.962837202	0.002045948
AC005786.7	IL5RA	0.987769652	0.000223457
AC005944.2	IL5RA	0.965318056	0.001783397
CTB-191K22.5	IL5RA	0.965947004	0.001719666
RP11-20I23.8	IL5RA	0.998219325	4.75E-06
CDC37L1-AS1	IL5RA	0.98769684	0.00022612
RP5-1142A6.10	IL5RA	0.988766216	0.000188588
RP11-556I13.1	IL5RA	0.997701821	7.92E-06
AC024028.1	IL6	0.951866498	0.003419492
RP11-498J9.2	IL6	0.996064938	2.32E-05
RP11-34P13.14	IL6	0.965395232	0.001775516
RP11-93O14.2	IL6	0.971431137	0.001212611
RP11-485G7.6	IL6	0.972879275	0.001093326
RP11-78A19.3	IL6	0.97238342	0.001133482
Z69720.3	IL6	0.987334976	0.000239588
CCDC144NL-AS1	IL6R	-0.919505801	0.0094582
CTA-315H11.2	IL6R	-0.958741386	0.002518293
PSMD5-AS1	IL6R	0.949309962	0.003789096
RP11-455F5.3	IL6R	0.920452688	0.009239983
RP11-326C3.2	IL6R	0.968045779	0.001515295
AC011558.5	DDR1	0.861053235	0.027618038
CTA-315H11.2	SLC7A8	-0.839792623	0.036443632
AP006621.8	IL6R	0.957603431	0.0026581
JHDM1D-AS1	IL6R	0.919193064	0.009530816
RP11-20I23.6	IL6R	0.935686435	0.006071344
RP11-160E2.19	IL6R	0.992829879	7.69E-05
RP11-20I23.8	IL6R	0.923856038	0.008476117
RP5-1142A6.10	IL6R	0.937734444	0.005694797
RP11-556I13.1	IL6R	0.919165562	0.009537215
AC011558.5	IL6R	0.957409395	0.002682311
RP11-498J9.2	IL7	0.959887866	0.002381205
RP11-34P13.14	IL7	0.979008967	0.000656311
RP11-93O14.2	IL7	0.971540369	0.0012034
RP11-78A19.3	IL7	0.953229417	0.003230076
Z69720.3	IL7	0.978291294	0.000701787
CTA-315H11.2	IL7R	-0.964239359	0.001895369
RP11-66D17.5	IL7R	0.92269122	0.008733947
RP11-126K1.8	IL7R	0.957155564	0.002714145
RP3-438O4.4	IL7R	0.978072379	0.000715959
NUP50-AS1	IL7R	0.968571774	0.001466079
PSMD5-AS1	IL7R	0.98920284	0.000174239
LL21NC02-21A1.1	SLC7A8	0.844477646	0.034399979
TOPORS-AS1	IL7R	0.970115161	0.00132631
AC087294.2	IL7R	0.991129496	0.00011768
AC011558.5	SLC7A8	0.826918457	0.04234331
CCDC144NL-AS1	TCEA3	-0.879392668	0.020942008

AP001062.8	IL7R	0.978261032	0.000703737
RP11-455F5.3	IL7R	0.994051559	5.30E-05
RP11-326C3.2	IL7R	0.998776828	2.24E-06
AP006621.8	IL7R	0.99281552	7.72E-05
JHDM1D-AS1	IL7R	0.994711131	4.19E-05
RP11-20I23.6	IL7R	0.996701674	1.63E-05
RP11-160E2.19	IL7R	0.97193394	0.001170502
AC005786.7	IL7R	0.985110242	0.000330907
AC005944.2	IL7R	0.96609578	0.001704758
CTB-191K22.5	IL7R	0.960145255	0.002350948
RP11-20I23.8	IL7R	0.995784122	2.66E-05
CDC37L1-AS1	IL7R	0.982119279	0.000476722
RP5-1142A6.10	IL7R	0.989552534	0.000163154
RP11-556I13.1	IL7R	0.994707355	4.19E-05
AC024028.1	IL8	0.964681771	0.001849038
RP11-498J9.2	IL8	0.999984653	3.53E-10
RP11-34P13.14	IL8	0.978938085	0.000660735
RP11-93O14.2	IL8	0.98289951	0.00043614
RP11-485G7.6	IL8	0.964480679	0.001870027
RP11-78A19.3	IL8	0.982822806	0.00044005
Z69720.3	IL8	0.98679438	0.000260431
CTD-2139B15.2	ILKAP	0.941660845	0.005005908
AC011558.5	TCEA3	0.841906652	0.035514606
CCDC144NL-AS1	LIN7A	-0.888349493	0.018002845
RP11-34P13.14	IMPA1	0.936082316	0.005997639
RP11-66D17.5	LIN7A	0.899316522	0.014695422
RP11-680G24.6	IMPA1	0.953753616	0.003158638
AC011558.5	IMPDH1	0.977038053	0.000784823
CTD-2139B15.2	IMPDH2	0.965732248	0.001741298
AC024028.1	INHBA	0.96425549	0.00189367
RP11-498J9.2	INHBA	0.999999277	7.84E-13
RP11-34P13.14	INHBA	0.978572708	0.000683774
RP11-93O14.2	INHBA	0.9831614	0.00042292
RP11-485G7.6	INHBA	0.965428669	0.001772106
RP11-78A19.3	INHBA	0.983464103	0.000407893
Z69720.3	INHBA	0.986462854	0.000273641
CTA-315H11.2	INPP4B	-0.973165936	0.001070439
RP3-438O4.4	INPP4B	0.947314511	0.00409052
NUP50-AS1	INPP4B	0.923167052	0.008628169
PSMD5-AS1	INPP4B	0.96731907	0.001584612
TOPORS-AS1	INPP4B	0.943496941	0.004698698
AC087294.2	INPP4B	0.96229063	0.002106184
AP001062.8	INPP4B	0.937437068	0.005748741
RP11-455F5.3	INPP4B	0.967248208	0.001591454
RP11-326C3.2	INPP4B	0.991805243	0.000100456
AP006621.8	INPP4B	0.974948176	0.00093353
AC011558.5	LIN7A	0.900806851	0.014270927
RP11-93O14.2	SPTB	-0.838204015	0.037149168
RP11-118G23.2	SPTB	-0.835921774	0.038173867
RP11-680G24.6	SPTB	-0.852071914	0.031205544
LA16c-359F1.1	SPTB	-0.814768276	0.048288464
LL21NC02-21A1.1	SPTB	0.900381778	0.01439139
RP11-498J9.2	WDR90	-0.881761205	0.020144105
RP11-34P13.14	WDR90	-0.904775967	0.013169697
JHDM1D-AS1	INPP4B	0.972003732	0.001164715
RP11-485G7.6	WDR90	-0.866215528	0.025650171
RP11-118G23.2	WDR90	-0.852844567	0.030888777
RP11-20I23.6	INPP4B	0.977905125	0.000726882
RP11-160E2.19	INPP4B	0.984670899	0.000350671
AC005786.7	INPP4B	0.958046145	0.002603267
Z69720.3	WDR90	-0.860428431	0.027860892
CCDC144NL-AS1	PLVAP	-0.862609504	0.027017521
AC005944.2	INPP4B	0.932671077	0.006647169

RP11-20I23.8	INPP4B	0.973238197	0.001064708
CDC37L1-AS1	INPP4B	0.956736899	0.002767056
RP5-1142A6.10	INPP4B	0.972744211	0.001104193
RP11-556I13.1	INPP4B	0.972116215	0.001155418
AC024028.1	INPP5A	0.938646446	0.005530913
RP11-473M20.11	INPP5A	0.968918666	0.001434061
CTA-315H11.2	INPP5K	-0.939279845	0.00541847
RP11-66D17.5	INPP5K	0.962876708	0.002041628
RP11-126K1.8	INPP5K	0.983167463	0.000422617
RP3-438O4.4	INPP5K	0.990911321	0.000123531
NUP50-AS1	INPP5K	0.991589743	0.000105801
PSMD5-AS1	INPP5K	0.988852017	0.000185724
TOPORS-AS1	INPP5K	0.97734686	0.000763935
AC087294.2	INPP5K	0.9993296	6.74E-07
AP001062.8	INPP5K	0.996454867	1.88E-05
RP11-455F5.3	INPP5K	0.999458248	4.40E-07
RP11-326C3.2	INPP5K	0.985882321	0.000297556
AP006621.8	INPP5K	0.988407968	0.000200784
JHDM1D-AS1	INPP5K	0.997787683	7.34E-06
LL21NC02-21A1.1	PLVAP	0.820237219	0.0455675
RP11-20I23.6	INPP5K	0.996271871	2.08E-05
RP11-160E2.19	INPP5K	0.942630717	0.004842444
CCDC144NL-AS1	CD248	-0.901250487	0.014145723
AC005786.7	INPP5K	0.993334362	6.65E-05
RP11-66D17.5	CD248	0.895514234	0.015805563
AC005944.2	INPP5K	0.97939595	0.000632417
CTB-191K22.5	INPP5K	0.987282481	0.000241575
RP11-20I23.8	INPP5K	0.998567728	3.08E-06
CDC37L1-AS1	INPP5K	0.991590741	0.000105776
RP5-1142A6.10	INPP5K	0.98753217	0.000232201
RP11-556I13.1	INPP5K	0.997714538	7.83E-06
RP11-93O14.2	INSIG1	0.945881242	0.004314007
RP11-485G7.6	INSIG1	0.932041438	0.00677062
RP11-78A19.3	INSIG1	0.941165257	0.005090461
RP11-680G24.6	INSIG1	0.961008288	0.00225089
LA16c-359F1.1	INSIG1	0.991999186	9.58E-05
CTA-315H11.2	INSL3	-0.968696296	0.001454545
RP11-126K1.8	INSL3	0.944165304	0.004589237
RP3-438O4.4	INSL3	0.964091067	0.001911026
NUP50-AS1	INSL3	0.956105584	0.002847793
PSMD5-AS1	INSL3	0.988966152	0.000181947
TOPORS-AS1	INSL3	0.960471616	0.002312858
AC087294.2	INSL3	0.981940948	0.000486249
AP001062.8	INSL3	0.966344167	0.001680011
RP11-455F5.3	INSL3	0.986589551	0.000268554
AC011558.5	CD248	0.897479031	0.015227048
CCDC144NL-AS1	PLXDC1	-0.878024196	0.021409761
RP11-326C3.2	INSL3	0.999931803	6.98E-09
AP006621.8	INSL3	0.993305613	6.71E-05
JHDM1D-AS1	INSL3	0.986679458	0.000264973
RP11-20I23.6	INSL3	0.992108479	9.32E-05
RP11-160E2.19	INSL3	0.983806367	0.000391227
AC005786.7	INSL3	0.977085505	0.000781595
AC005944.2	INSL3	0.96307125	0.002020418
CTB-191K22.5	INSL3	0.946592933	0.004202305
RP11-20I23.8	INSL3	0.988604996	0.000194029
CDC37L1-AS1	INSL3	0.96923549	0.001405124
RP5-1142A6.10	INSL3	0.987354838	0.000238839
RP11-556I13.1	INSL3	0.986666757	0.000265478
AC011558.5	INTS7	-0.991067103	0.000119339
CTA-315H11.2	IPCEF1	-0.975314894	0.000906511
RP11-126K1.8	IPCEF1	0.926060146	0.007998535
RP3-438O4.4	IPCEF1	0.952738533	0.003297687

NUP50-AS1	IPCEF1	0.940039668	0.005285076
PSMD5-AS1	IPCEF1	0.982643796	0.000449243
TOPORS-AS1	IPCEF1	0.948008887	0.003984346
AC087294.2	IPCEF1	0.971580032	0.001200065
AP001062.8	IPCEF1	0.951865618	0.003419616
RP11-455F5.3	IPCEF1	0.977044747	0.000784367
AC011558.5	PLXDC1	0.83152828	0.040183238
CCDC144NL-AS1	GCET2	-0.90081684	0.014268102
RP11-326C3.2	IPCEF1	0.997321707	1.08E-05
RP11-66D17.5	GCET2	0.907788003	0.012362537
AP006621.8	IPCEF1	0.987996607	0.000215257
JHDM1D-AS1	IPCEF1	0.978500246	0.00068839
RP11-20I23.6	IPCEF1	0.985203675	0.000326777
RP11-160E2.19	IPCEF1	0.98925899	0.000172434
AC005786.7	IPCEF1	0.9668526	0.001629915
AC005944.2	IPCEF1	0.953915502	0.003136735
CTB-191K22.5	IPCEF1	0.930913795	0.006994485
RP11-20I23.8	IPCEF1	0.980626554	0.00055936
CDC37L1-AS1	IPCEF1	0.960733913	0.002282468
RP5-1142A6.10	IPCEF1	0.980598808	0.000560958
RP11-556I13.1	IPCEF1	0.978525143	0.000686802
RP11-118G23.2	IPO7	0.956184681	0.002837615
AC011558.5	IQGAP3	-0.989128731	0.000176634
AC011558.5	IRAK1BP1	-0.986283355	0.000280929
RP11-498J9.2	IRAK2	0.97554746	0.00088958
RP11-34P13.14	IRAK2	0.945031282	0.004449294
RP11-93O14.2	IRAK2	0.97654037	0.000819076
RP11-485G7.6	IRAK2	0.984953635	0.000337886
RP11-78A19.3	IRAK2	0.982613771	0.000450794
LA16c-359F1.1	IRAK2	0.954587276	0.003046646
AC011558.5	GCET2	0.878147644	0.021367363
CCDC144NL-AS1	SESN3	-0.866170999	0.02566685
Z69720.3	IRAK2	0.963797366	0.001942222
RP11-498J9.2	IRF1	0.946261114	0.004254206
RP11-485G7.6	IRF1	0.964908203	0.001825545
Z69720.3	IRF1	0.926023739	0.008006314
AC024028.1	IRF5	0.917949441	0.009822247
RP11-498J9.2	IRF5	0.95122121	0.003511024
RP11-93O14.2	IRF5	0.921495201	0.009002593
RP11-485G7.6	IRF5	0.926101594	0.007989683
Z69720.3	IRF5	0.923722721	0.008505436
CTD-2541M15.3	IRF6	0.932085573	0.006761931
AC011558.5	IRF6	-0.91927667	0.009511377
RP11-160E2.19	IRF7	0.947791005	0.004017514
AC011558.5	IRF7	0.971399186	0.001215312
AC024028.1	IRF8	0.942142481	0.0049244
RP11-498J9.2	IRF8	0.99354942	6.23E-05
RP11-34P13.14	IRF8	0.952791527	0.003290355
RP11-93O14.2	IRF8	0.971589751	0.001199248
RP11-485G7.6	IRF8	0.980365365	0.000574494
RP11-78A19.3	IRF8	0.970346166	0.001305987
Z69720.3	IRF8	0.97858696	0.000682868
LL21NC02-21A1.1	SESN3	0.81789471	0.046723987
AC024028.1	IRS2	0.985269676	0.000323876
RP11-498J9.2	IRS2	0.923742643	0.008501052
CCDC144NL-AS1	KCNA3	-0.911119645	0.011498511
RP11-473M20.11	IRS2	0.99541978	3.14E-05
RP11-126K1.8	KCNA3	0.840181387	0.036271941
RP3-438O4.4	KCNA3	0.856738382	0.029315694
NUP50-AS1	KCNA3	0.852564638	0.031003364
CTA-315H11.2	ISCA1	-0.934582795	0.006279143
TOPORS-AS1	KCNA3	0.869856501	0.024303854
AC087294.2	KCNA3	0.894778022	0.016025006

AP001062.8	KCNA3	0.866444442	0.02556451
RP11-455F5.3	KCNA3	0.907197253	0.0125189
RP11-66D17.5	ISCA1	0.967466995	0.001570378
RP11-126K1.8	ISCA1	0.99355055	6.23E-05
JHDM1D-AS1	KCNA3	0.905421344	0.012994674
RP3-438O4.4	ISCA1	0.980879546	0.000544892
NUP50-AS1	ISCA1	0.992733241	7.90E-05
AC005786.7	KCNA3	0.893295682	0.01647126
AC005944.2	KCNA3	0.900316166	0.014410028
CTB-191K22.5	KCNA3	0.83868547	0.036934672
RP11-20I23.8	KCNA3	0.910726829	0.011598809
CDC37L1-AS1	KCNA3	0.867330369	0.025234272
PSMD5-AS1	ISCA1	0.990585603	0.000132529
RP11-556I13.1	KCNA3	0.905384972	0.013004508
TOPORS-AS1	ISCA1	0.961017445	0.00224984
CCDC144NL-AS1	PIP5KL1	-0.869279085	0.02451506
AC087294.2	ISCA1	0.993862604	5.64E-05
AP001062.8	ISCA1	0.996665608	1.67E-05
RP11-455F5.3	ISCA1	0.995083779	3.62E-05
RP11-326C3.2	ISCA1	0.976128653	0.00084796
AP006621.8	ISCA1	0.988058271	0.000213056
JHDM1D-AS1	ISCA1	0.989768115	0.000156502
RP11-20I23.6	ISCA1	0.986891157	0.000256636
RP11-160E2.19	ISCA1	0.930289196	0.007120011
AC005786.7	ISCA1	0.983699737	0.000396382
AC005944.2	ISCA1	0.98494562	0.000338246
CTB-191K22.5	ISCA1	0.99193508	9.73E-05
RP11-20I23.8	ISCA1	0.991227107	0.000115108
CDC37L1-AS1	ISCA1	0.980754892	0.000551997
RP5-1142A6.10	ISCA1	0.97594543	0.000860974
RP11-556I13.1	ISCA1	0.989594003	0.000161864
CTA-315H11.2	ISCA1P6	-0.945741186	0.004336159
RP11-66D17.5	ISCA1P6	0.950244931	0.003651764
RP11-126K1.8	ISCA1P6	0.97284269	0.001096265
RP3-438O4.4	ISCA1P6	0.993698542	5.94E-05
NUP50-AS1	ISCA1P6	0.983525845	0.000404861
LL21NC02-21A1.1	PIP5KL1	0.823434036	0.04401104
PSMD5-AS1	ISCA1P6	0.982245427	0.000470039
TOPORS-AS1	ISCA1P6	0.980052526	0.000592884
AC011558.5	PIP5KL1	0.817372873	0.04698345
CCDC144NL-AS1	THBS4	-0.896300959	0.015572673
AC087294.2	ISCA1P6	0.998911004	1.78E-06
RP11-66D17.5	THBS4	0.900872731	0.0142523
AP001062.8	ISCA1P6	0.991493281	0.000108239
RP11-455F5.3	ISCA1P6	0.998826662	2.06E-06
RP11-326C3.2	ISCA1P6	0.988496209	0.000197745
AP006621.8	ISCA1P6	0.984286293	0.000368441
JHDM1D-AS1	ISCA1P6	0.999999212	9.32E-13
RP11-20I23.6	ISCA1P6	0.996735909	1.60E-05
RP11-160E2.19	ISCA1P6	0.943792601	0.00465012
AC005786.7	ISCA1P6	0.991761865	0.000101521
AC005944.2	ISCA1P6	0.965172813	0.001798278
CTB-191K22.5	ISCA1P6	0.976773127	0.000802966
RP11-20I23.8	ISCA1P6	0.999768356	8.05E-08
CDC37L1-AS1	ISCA1P6	0.995258828	3.37E-05
RP5-1142A6.10	ISCA1P6	0.986392451	0.000276488
RP11-556I13.1	ISCA1P6	1	0
CTA-315H11.2	ISCU	-0.93410329	0.00637049
RP11-66D17.5	ISCU	0.965190691	0.001796443
RP11-126K1.8	ISCU	0.988291767	0.000204822
RP3-438O4.4	ISCU	0.991991063	9.60E-05
NUP50-AS1	ISCU	0.99206298	9.42E-05
PSMD5-AS1	ISCU	0.983558309	0.000403271

AC011558.5	THBS4	0.883940539	0.019423049
CCDC144NL-AS1	PDE2A	-0.886323783	0.018648945
TOPORS-AS1	ISCU	0.974333093	0.000979731
AC087294.2	ISCU	0.998851181	1.98E-06
AP001062.8	ISCU	0.998081062	5.52E-06
RP11-455F5.3	ISCU	0.998675097	2.63E-06
RP11-326C3.2	ISCU	0.97951619	0.000625082
AP006621.8	ISCU	0.983335865	0.000414226
JHDM1D-AS1	ISCU	0.996722443	1.61E-05
RP11-20I23.6	ISCU	0.991591972	0.000105745
RP11-160E2.19	ISCU	0.927488647	0.007696216
AC005786.7	ISCU	0.98915609	0.000175748
AC005944.2	ISCU	0.971946693	0.001169443
CTB-191K22.5	ISCU	0.987817862	0.000221703
RP11-20I23.8	ISCU	0.996767933	1.57E-05
CDC37L1-AS1	ISCU	0.991316826	0.000112769
RP5-1142A6.10	ISCU	0.97966151	0.000616275
RP11-556I13.1	ISCU	0.996636186	1.70E-05
CTA-315H11.2	ISG20	-0.926441374	0.007917299
RP11-66D17.5	ISG20	0.973049801	0.001079683
RP11-126K1.8	ISG20	0.995390008	3.18E-05
RP3-438O4.4	ISG20	0.981185052	0.000527673
NUP50-AS1	ISG20	0.994628631	4.32E-05
PSMD5-AS1	ISG20	0.987395265	0.000237318
AC011558.5	PDE2A	0.858890166	0.02846309
CCDC144NL-AS1	ZBP1	-0.898155594	0.015030245
TOPORS-AS1	ISG20	0.96062524	0.002295035
RP3-438O4.4	ZBP1	0.821541857	0.044929258
NUP50-AS1	ZBP1	0.819894899	0.04573566
AC087294.2	ISG20	0.992853593	7.64E-05
TOPORS-AS1	ZBP1	0.840179485	0.03627278
AC087294.2	ZBP1	0.864076192	0.026457307
AP001062.8	ZBP1	0.833514985	0.039268636
RP11-455F5.3	ZBP1	0.87801963	0.02141133
AP001062.8	ISG20	0.997477951	9.53E-06
RP11-455F5.3	ISG20	0.993384485	6.55E-05
JHDM1D-AS1	ZBP1	0.87556277	0.022263504
RP11-20I23.6	ZBP1	0.898706555	0.014870889
RP11-326C3.2	ISG20	0.970888232	0.001258907
AC005786.7	ZBP1	0.864810802	0.026178812
AC005944.2	ZBP1	0.877784608	0.021492162
RP11-20I23.8	ZBP1	0.881819033	0.02012481
CDC37L1-AS1	ZBP1	0.833032482	0.039489855
RP5-1142A6.10	ZBP1	0.906367708	0.012740072
RP11-556I13.1	ZBP1	0.875515985	0.022279886
AP006621.8	ISG20	0.984078154	0.00037824
JHDM1D-AS1	ISG20	0.98779557	0.000222513
RP11-20I23.6	ISG20	0.984344925	0.000365704
RP11-160E2.19	ISG20	0.921971523	0.008895129
AC005786.7	ISG20	0.983109679	0.000425515
AC005944.2	ISG20	0.984704222	0.000349152
CTB-191K22.5	ISG20	0.994558075	4.43E-05
RP11-20I23.8	ISG20	0.989168567	0.000175345
CDC37L1-AS1	ISG20	0.980408671	0.00057197
RP5-1142A6.10	ISG20	0.973316494	0.001058515
RP11-556I13.1	ISG20	0.987613056	0.000229204
AC024028.1	ITGA2B	0.956058843	0.002853817
RP11-498J9.2	ITGA2B	0.997893491	6.65E-06
RP11-34P13.14	ITGA2B	0.973465371	0.001046788
RP11-93O14.2	ITGA2B	0.983617094	0.000400401
RP11-485G7.6	ITGA2B	0.966786785	0.001636357
RP11-78A19.3	ITGA2B	0.980255989	0.000580891
Z69720.3	ITGA2B	0.98412029	0.000376246

CTA-315H11.2	ITGA6	-0.947691933	0.00403264
RP11-126K1.8	ITGA6	0.922629249	0.00874777
RP3-438O4.4	ITGA6	0.954111149	0.003110364
NUP50-AS1	ITGA6	0.945678276	0.004346127
PSMD5-AS1	ITGA6	0.978207028	0.000707225
CCDC144NL-AS1	PDCD1	-0.88127439	0.020306891
CTA-315H11.2	PDCD1	-0.914433586	0.010669175
PSMD5-AS1	PDCD1	0.900024379	0.014493053
TOPORS-AS1	PDCD1	0.816344056	0.047496947
AC087294.2	PDCD1	0.838547177	0.036996225
RP11-455F5.3	PDCD1	0.853342881	0.030685292
TOPORS-AS1	ITGA6	0.96540247	0.001774777
AP006621.8	PDCD1	0.908735993	0.012113604
JHDM1D-AS1	PDCD1	0.850753529	0.031749568
RP11-20I23.6	PDCD1	0.877215294	0.02168857
AC087294.2	ITGA6	0.971223506	0.001230215
AC005786.7	PDCD1	0.841827417	0.035549223
AC005944.2	PDCD1	0.858939333	0.028443747
RP11-20I23.8	PDCD1	0.857730568	0.028921078
RP5-1142A6.10	PDCD1	0.887743501	0.018194981
RP11-556I13.1	PDCD1	0.850709362	0.03176787
AP001062.8	ITGA6	0.952826221	0.003285559
CCDC144NL-AS1	ZNF683	-0.903925782	0.013401988
RP11-455F5.3	ITGA6	0.97508533	0.000923378
RP11-66D17.5	ZNF683	0.896190783	0.015605188
RP11-326C3.2	ITGA6	0.995177086	3.48E-05
AP006621.8	ITGA6	0.982764691	0.000443024
JHDM1D-AS1	ITGA6	0.976265773	0.000838285
RP11-20I23.6	ITGA6	0.987825956	0.000221409
RP11-160E2.19	ITGA6	0.988361426	0.000202396
AC005786.7	ITGA6	0.975536211	0.000890395
AC005944.2	ITGA6	0.955434755	0.002934837
CTB-191K22.5	ITGA6	0.932343837	0.006711191
RP11-20I23.8	ITGA6	0.978810442	0.000668739
CDC37L1-AS1	ITGA6	0.958233821	0.002580192
RP5-1142A6.10	ITGA6	0.990579844	0.000132691
RP11-556I13.1	ITGA6	0.976295223	0.000836215
AC024028.1	ITGA9	0.947563268	0.004052326
RP11-498J9.2	ITGA9	0.99523444	3.40E-05
RP11-34P13.14	ITGA9	0.985405628	0.000317939
RP11-93O14.2	ITGA9	0.99128749	0.000113531
RP11-485G7.6	ITGA9	0.959018106	0.002484859
RP11-78A19.3	ITGA9	0.985524269	0.000312804
Z69720.3	ITGA9	0.98938247	0.000168499
RP11-473M20.11	ITGAM	0.923894359	0.008467698
AC011558.5	ZNF683	0.894186392	0.016202407
CCDC144NL-AS1	LILRA6	-0.833996475	0.039048462
AC011558.5	ITGAM	0.926717175	0.007858781
AC011558.5	ITGB2	0.975983022	0.000858296
AC024028.1	ITGB3	0.941250609	0.00507585
RP11-498J9.2	ITGB3	0.9871399	0.00024701
RP11-34P13.14	ITGB3	0.98415941	0.000374399
RP11-93O14.2	ITGB3	0.995652802	2.83E-05
RP11-485G7.6	ITGB3	0.954754579	0.00302441
RP11-78A19.3	ITGB3	0.997336393	1.06E-05
LA16c-359F1.1	ITGB3	0.946693357	0.004186659
Z69720.3	ITGB3	0.973391737	0.00105258
RP11-160E2.19	ITGB7	0.945104065	0.004437629
AC011558.5	ITGB7	0.983593655	0.000401544
CTA-315H11.2	ITIH3	-0.95157099	0.003461261
RP11-66D17.5	ITIH3	0.943874884	0.004636645
RP11-126K1.8	ITIH3	0.96970615	0.001362675
RP3-438O4.4	ITIH3	0.990439688	0.000136662

NUP50-AS1	ITIH3	0.980629447	0.000559193
PSMD5-AS1	ITIH3	0.985309877	0.000322115
TOPORS-AS1	ITIH3	0.978518721	0.000687212
AC087294.2	ITIH3	0.997869527	6.80E-06
LL21NC02-21A1.1	LILRA6	0.827817068	0.041918093
AP001062.8	ITIH3	0.989008913	0.000180542
RP11-455F5.3	ITIH3	0.998611713	2.89E-06
AC011558.5	LILRA6	0.826805907	0.042396709
CCDC144NL-AS1	KCNJ15	-0.871082051	0.023858459
RP11-326C3.2	ITIH3	0.992396223	8.65E-05
AP006621.8	ITIH3	0.98775616	0.00022395
JHDM1D-AS1	ITIH3	0.999597417	2.43E-07
RP11-20I23.6	ITIH3	0.997846098	6.95E-06
RP11-160E2.19	ITIH3	0.952598244	0.003317136
AC005786.7	ITIH3	0.991107261	0.00011827
AC005944.2	ITIH3	0.966663438	0.001648466
CTB-191K22.5	ITIH3	0.973381662	0.001053374
RP11-20I23.8	ITIH3	0.999742768	9.92E-08
CDC37L1-AS1	ITIH3	0.992629009	8.13E-05
RP5-1142A6.10	ITIH3	0.98845909	0.00019902
RP11-556I13.1	ITIH3	0.999595851	2.45E-07
CTA-315H11.2	ITIH4	-0.96890558	0.001435262
RP11-126K1.8	ITIH4	0.939339115	0.005408006
RP3-438O4.4	ITIH4	0.961781519	0.002163066
NUP50-AS1	ITIH4	0.951985219	0.003402782
PSMD5-AS1	ITIH4	0.986580107	0.000268932
TOPORS-AS1	ITIH4	0.959321916	0.002448405
AC087294.2	ITIH4	0.979648856	0.000617039
AP001062.8	ITIH4	0.962808316	0.00204911
RP11-455F5.3	ITIH4	0.984469379	0.000359927
RP11-326C3.2	ITIH4	0.999693185	1.41E-07
AC011558.5	KCNJ15	0.824511479	0.04349214
CCDC144NL-AS1	C9orf174	-0.877400418	0.02162461
AP006621.8	ITIH4	0.991522586	0.000107495
JHDM1D-AS1	ITIH4	0.985021149	0.000334869
RP11-20I23.6	ITIH4	0.990714789	0.000128922
RP11-160E2.19	ITIH4	0.984799715	0.000344817
AC005786.7	ITIH4	0.974957216	0.000932859
AC005944.2	ITIH4	0.958827648	0.002507847
CTB-191K22.5	ITIH4	0.94164408	0.005008757
RP11-20I23.8	ITIH4	0.986871075	0.000257422
CDC37L1-AS1	ITIH4	0.967090523	0.001606729
RP5-1142A6.10	ITIH4	0.986196051	0.000284508
RP11-556I13.1	ITIH4	0.985021678	0.000334845
CTA-315H11.2	ITK	-0.963196997	0.002006767
RP11-66D17.5	ITK	0.923684872	0.008513768
RP11-126K1.8	ITK	0.958136995	0.002592084
RP3-438O4.4	ITK	0.978271313	0.000703074
NUP50-AS1	ITK	0.969408555	0.00138944
PSMD5-AS1	ITK	0.989507165	0.000164572
TOPORS-AS1	ITK	0.970764978	0.001269536
AC087294.2	ITK	0.991447923	0.000109394
AP001062.8	ITK	0.978913262	0.000662288
RP11-455F5.3	ITK	0.994355733	4.77E-05
RP11-326C3.2	ITK	0.998745581	2.36E-06
AC011558.5	C9orf174	0.816773234	0.047282423
CCDC144NL-AS1	SIRPG	-0.878431601	0.021269991
AP006621.8	ITK	0.99303605	7.26E-05
JHDM1D-AS1	ITK	0.994831266	4.00E-05
RP11-20I23.6	ITK	0.996887933	1.45E-05
RP11-160E2.19	ITK	0.97157389	0.001200581
AC005786.7	ITK	0.985536377	0.000312282
AC005944.2	ITK	0.966626158	0.001652134

CTB-191K22.5	ITK	0.960861701	0.002267734
RP11-20I23.8	ITK	0.995928454	2.48E-05
CDC37L1-AS1	ITK	0.982031169	0.000481417
RP5-1142A6.10	ITK	0.989896166	0.000152615
RP11-556I13.1	ITK	0.994822857	4.01E-05
CTA-315H11.2	ITLN1	-0.931747271	0.006828677
RP11-66D17.5	ITLN1	0.952730569	0.003298789
RP11-126K1.8	ITLN1	0.97143564	0.001212231
RP3-438O4.4	ITLN1	0.996964896	1.38E-05
NUP50-AS1	ITLN1	0.979859544	0.000604372
PSMD5-AS1	ITLN1	0.964921398	0.00182418
TOPORS-AS1	ITLN1	0.976018569	0.000855768
AC087294.2	ITLN1	0.995155811	3.51E-05
AP001062.8	ITLN1	0.989383734	0.000168459
RP11-455F5.3	ITLN1	0.993173686	6.97E-05
RP11-326C3.2	ITLN1	0.973189976	0.001068531
AC011558.5	SIRPG	0.839692998	0.036487691
CCDC144NL-AS1	PCSK5	-0.911855904	0.01131166
AP006621.8	ITLN1	0.96745129	0.001571886
RP11-66D17.5	PCSK5	0.818254988	0.046545242
RP11-126K1.8	PCSK5	0.878660669	0.021191596
RP3-438O4.4	PCSK5	0.896911322	0.015393137
NUP50-AS1	PCSK5	0.891991865	0.016868637
JHDM1D-AS1	ITLN1	0.996117844	2.26E-05
TOPORS-AS1	PCSK5	0.905774554	0.012899365
RP11-20I23.6	ITLN1	0.986669439	0.000265371
AP001062.8	PCSK5	0.904343985	0.01328748
AC005786.7	ITLN1	0.984156415	0.00037454
AC005944.2	ITLN1	0.946202497	0.004263407
CTB-191K22.5	ITLN1	0.973577169	0.001038025
RP11-20I23.8	ITLN1	0.994211701	5.02E-05
CDC37L1-AS1	ITLN1	0.997508346	9.30E-06
RP5-1142A6.10	ITLN1	0.971364853	0.001218217
RP11-556I13.1	ITLN1	0.996155681	2.21E-05
AC024028.1	ITM2C	0.979203645	0.000644235
CTB-191K22.5	PCSK5	0.879414955	0.020934431
RP11-498J9.2	ITM2C	0.994373433	4.74E-05
CDC37L1-AS1	PCSK5	0.905909604	0.012863013
RP11-34P13.14	ITM2C	0.964531671	0.001864694
RP11-93O14.2	ITM2C	0.963075337	0.002019974
RP11-485G7.6	ITM2C	0.949451758	0.003768109
CCDC144NL-AS1	INSL3	-0.901274469	0.01413897
RP11-473M20.11	ITM2C	0.942073431	0.004936045
RP11-66D17.5	INSL3	0.903304177	0.013573066
RP11-78A19.3	ITM2C	0.964695057	0.001847656
Z69720.3	ITM2C	0.972841703	0.001096344
CTD-2139B15.2	ITPR1	-0.918992372	0.009577558
RP11-126K1.8	ITPRIPL1	-0.932664078	0.006648535
RMRP	ITPRIPL1	-0.945759491	0.004333261
CTA-315H11.2	ITSN1	-0.942826169	0.004809824
RP11-66D17.5	ITSN1	0.948450625	0.003917515
RP11-126K1.8	ITSN1	0.980014006	0.000595168
RP3-438O4.4	ITSN1	0.990864266	0.000124811
NUP50-AS1	ITSN1	0.981748658	0.000496627
PSMD5-AS1	ITSN1	0.977166981	0.000776068
TOPORS-AS1	ITSN1	0.971142832	0.001237089
AC087294.2	ITSN1	0.996484414	1.85E-05
AP001062.8	ITSN1	0.991941246	9.72E-05
RP11-455F5.3	ITSN1	0.996921889	1.42E-05
RP11-326C3.2	ITSN1	0.980724502	0.000553736
AP006621.8	ITSN1	0.979679931	0.000615163
JHDM1D-AS1	ITSN1	0.996874366	1.46E-05
RP11-20I23.6	ITSN1	0.988925557	0.000183286

RP11-160E2.19	ITSN1	0.92606974	0.007996485
AC011558.5	INSL3	0.886290298	0.018659717
CCDC144NL-AS1	KBTBD11	-0.8765731	0.021911144
CTA-315H11.2	KBTBD11	-0.90089305	0.014246558
PSMD5-AS1	KBTBD11	0.880280398	0.020641217
AC087294.2	KBTBD11	0.813287568	0.049037758
RP11-455F5.3	KBTBD11	0.829398215	0.041174774
RP11-326C3.2	KBTBD11	0.90207012	0.013915806
AP006621.8	KBTBD11	0.889858084	0.017528783
JHDM1D-AS1	KBTBD11	0.826505916	0.042539193
RP11-20I23.6	KBTBD11	0.854379202	0.03026415
AC005786.7	ITSN1	0.98289445	0.000436397
AC005786.7	KBTBD11	0.816143734	0.047597232
AC005944.2	KBTBD11	0.83573045	0.038260363
RP11-20I23.8	KBTBD11	0.833839408	0.039120221
RP5-1142A6.10	KBTBD11	0.865692381	0.025846448
RP11-556I13.1	KBTBD11	0.826457042	0.042562427
AC005944.2	ITSN1	0.955434965	0.002934809
CCDC144NL-AS1	TMPRSS13	-0.873196108	0.023099386
CTA-315H11.2	TMPRSS13	-0.890666577	0.017277221
CTD-2541M15.3	TMPRSS13	-0.812918998	0.0492251
PSMD5-AS1	TMPRSS13	0.869657277	0.024376627
RP11-326C3.2	TMPRSS13	0.883762494	0.019481485
AP006621.8	TMPRSS13	0.878087262	0.021388096
RP11-20I23.6	TMPRSS13	0.83253714	0.039717566
CTB-191K22.5	ITSN1	0.975144503	0.000919016
AC005944.2	TMPRSS13	0.826629364	0.042480533
RP11-20I23.8	TMPRSS13	0.811929591	0.049729648
RP5-1142A6.10	TMPRSS13	0.843590098	0.034782876
RP11-20I23.8	ITSN1	0.995911999	2.50E-05
CCDC144NL-AS1	CDH23	-0.905050369	0.013095143
CDC37L1-AS1	ITSN1	0.990717255	0.000128854
RP11-66D17.5	CDH23	0.848149337	0.032837202
RP11-126K1.8	CDH23	0.900132218	0.014462341
RP5-1142A6.10	ITSN1	0.973884671	0.00101411
NUP50-AS1	CDH23	0.915167273	0.010489634
RP11-556I13.1	ITSN1	0.996835391	1.50E-05
RP11-118G23.2	JAG1	0.976227279	0.000840996
RP11-680G24.6	JAG1	0.925860799	0.008041174
CTA-315H11.2	JAK3	-0.960485604	0.002311233
RP11-66D17.5	JAK3	0.923563712	0.008540469
RP11-126K1.8	JAK3	0.956074825	0.002851756
RP3-438O4.4	JAK3	0.977496404	0.00075392
NUP50-AS1	JAK3	0.969252952	0.001403538
PSMD5-AS1	JAK3	0.989339719	0.000169857
TOPORS-AS1	JAK3	0.972467455	0.001126626
AC087294.2	JAK3	0.990763795	0.000127567
AP001062.8	JAK3	0.977991369	0.00072124
CTB-191K22.5	CDH23	0.902978777	0.01366304
RP11-455F5.3	JAK3	0.993544034	6.24E-05
RP11-326C3.2	JAK3	0.998962674	1.61E-06
AP006621.8	JAK3	0.992710128	7.95E-05
JHDM1D-AS1	JAK3	0.994043536	5.31E-05
RP11-20I23.6	JAK3	0.997335946	1.06E-05
RP11-160E2.19	JAK3	0.973678693	0.001030099
AC005786.7	JAK3	0.986576702	0.000269068
AC005944.2	JAK3	0.967645007	0.001553333
CTB-191K22.5	JAK3	0.960296339	0.002333277
RP11-20I23.8	JAK3	0.995333975	3.26E-05
CDC37L1-AS1	JAK3	0.981122339	0.000531185
RP5-1142A6.10	JAK3	0.991770292	0.000101313
RP11-556I13.1	JAK3	0.994038131	5.32E-05
CTA-315H11.2	JAZF1	-0.945593821	0.004359526

RP11-66D17.5	JAZF1	0.950904899	0.003556326
RP11-126K1.8	JAZF1	0.975196438	0.000915195
RP3-438O4.4	JAZF1	0.993862301	5.64E-05
NUP50-AS1	JAZF1	0.983770303	0.000392967
PSMD5-AS1	JAZF1	0.981356052	0.000518155
TOPORS-AS1	JAZF1	0.978225786	0.000706013
AC087294.2	JAZF1	0.99893018	1.72E-06
AP001062.8	JAZF1	0.992258506	8.97E-05
CCDC144NL-AS1	IL5RA	-0.885847252	0.018802521
RP11-455F5.3	JAZF1	0.998889932	1.85E-06
RP11-326C3.2	JAZF1	0.986820684	0.000259397
AP006621.8	JAZF1	0.983443173	0.000408923
JHDM1D-AS1	JAZF1	0.999840178	3.83E-08
RP11-20I23.6	JAZF1	0.99529333	3.32E-05
RP11-160E2.19	JAZF1	0.939443294	0.005389638
AC005786.7	JAZF1	0.99016006	0.00014476
AC005944.2	JAZF1	0.963434418	0.001981118
CTB-191K22.5	JAZF1	0.977278177	0.000768556
RP11-20I23.8	JAZF1	0.999406654	5.28E-07
CDC37L1-AS1	JAZF1	0.9951315	3.55E-05
RP5-1142A6.10	JAZF1	0.983650556	0.000398771
RP11-556I13.1	JAZF1	0.999832849	4.19E-08
CTA-315H11.2	JHDM1D	-0.959802964	0.002391227
RP11-66D17.5	JHDM1D	0.932861012	0.006610146
RP11-126K1.8	JHDM1D	0.968570527	0.001466194
RP3-438O4.4	JHDM1D	0.984903724	0.000340126
NUP50-AS1	JHDM1D	0.974927804	0.000935042
PSMD5-AS1	JHDM1D	0.986492868	0.000272432
TOPORS-AS1	JHDM1D	0.971509893	0.001205967
AC087294.2	JHDM1D	0.995330954	3.26E-05
AP001062.8	JHDM1D	0.985539511	0.000312147
AC011558.5	IL5RA	0.840899469	0.035955814
CCDC144NL-AS1	FAM176A	-0.889084669	0.017771064
RP11-455F5.3	JHDM1D	0.997519618	9.22E-06
RP11-326C3.2	JHDM1D	0.994113718	5.19E-05
AP006621.8	JHDM1D	0.990022557	0.000148827
JHDM1D-AS1	JHDM1D	0.99788684	6.69E-06
RP11-20I23.6	JHDM1D	0.995345398	3.24E-05
RP11-160E2.19	JHDM1D	0.955490987	0.002927491
AC005786.7	JHDM1D	0.985207699	0.0003266
AC005944.2	JHDM1D	0.962222198	0.002113786
CTB-191K22.5	JHDM1D	0.966985383	0.001616955
RP11-20I23.8	JHDM1D	0.998039365	5.76E-06
CDC37L1-AS1	JHDM1D	0.987261157	0.000242384
RP5-1142A6.10	JHDM1D	0.984326466	0.000366564
RP11-556I13.1	JHDM1D	0.997867888	6.81E-06
CTA-315H11.2	JMJD7-PLA2G4B	-0.963969891	0.001923867
RP3-438O4.4	JMJD7-PLA2G4B	0.918166807	0.009771002
NUP50-AS1	JMJD7-PLA2G4B	0.918308218	0.009737734
PSMD5-AS1	JMJD7-PLA2G4B	0.977921682	0.000725797
TOPORS-AS1	JMJD7-PLA2G4B	0.923910285	0.008464201
AC087294.2	JMJD7-PLA2G4B	0.94852546	0.003906248
AP001062.8	JMJD7-PLA2G4B	0.929222257	0.007336953
RP11-455F5.3	JMJD7-PLA2G4B	0.957451938	0.002676993
RP11-326C3.2	JMJD7-PLA2G4B	0.988140202	0.000210148
AC011558.5	FAM176A	0.855395013	0.029854015
CCDC144NL-AS1	NOG	-0.875783882	0.022186161
AP006621.8	JMJD7-PLA2G4B	0.983246985	0.000418644
JHDM1D-AS1	JMJD7-PLA2G4B	0.954720654	0.003028912
RP11-20I23.6	JMJD7-PLA2G4B	0.967564769	0.001561005
RP11-160E2.19	JMJD7-PLA2G4B	0.994909444	3.88E-05
AC005786.7	JMJD7-PLA2G4B	0.945128493	0.004433718
AC005944.2	JMJD7-PLA2G4B	0.946822141	0.004166637

RP11-20I23.8	JMJD7-PLA2G4B	0.958782557	0.002513305
CDC37L1-AS1	JMJD7-PLA2G4B	0.924699205	0.008291829
RP5-1142A6.10	JMJD7-PLA2G4B	0.967934784	0.001525783
RP11-556I13.1	JMJD7-PLA2G4B	0.954646757	0.003038731
AC011558.5	JMJD7-PLA2G4B	0.929211045	0.00733925
RP11-93O14.2	JUP	0.919467274	0.009467132
AC011558.5	NOG	0.826679898	0.042456531
CCDC144NL-AS1	C17orf76	-0.860486203	0.027838394
RP11-160E2.19	KBTBD11	0.96191528	0.002148049
AC011558.5	KBTBD11	0.981893041	0.000488825
CTA-315H11.2	KCNA3	-0.949543722	0.003754527
PSMD5-AS1	KCNA3	0.940647979	0.005179455
RP11-326C3.2	KCNA3	0.959168355	0.002466797
AP006621.8	KCNA3	0.948828609	0.00386077
RMRP	C17orf76	0.812780936	0.049295361
RP11-20I23.6	KCNA3	0.924577567	0.008318293
RP11-160E2.19	KCNA3	0.990852911	0.000125121
LL21NC02-21A1.1	C17orf76	0.841878815	0.035526766
RP5-1142A6.10	KCNA3	0.928972834	0.007388127
AC011558.5	KCNA3	0.965602666	0.001754416
CCDC144NL-AS1	PRG3	-0.863385871	0.026720287
AC024028.1	KCNAB2	0.988441432	0.000199629
RP11-498J9.2	KCNAB2	0.991343026	0.00011209
RP11-34P13.14	KCNAB2	0.970092848	0.001328282
RP11-93O14.2	KCNAB2	0.954571929	0.003048689
RP11-485G7.6	KCNAB2	0.934345452	0.006324277
RP11-473M20.11	KCNAB2	0.956971649	0.002737326
RP11-78A19.3	KCNAB2	0.959159719	0.002467834
Z69720.3	KCNAB2	0.973939998	0.001009837
CTA-315H11.2	KCNIP2	-0.931188395	0.006939643
RP11-66D17.5	KCNIP2	0.939214317	0.00543005
RP11-126K1.8	KCNIP2	0.963129551	0.002014084
RP3-438O4.4	KCNIP2	0.936180054	0.005979509
NUP50-AS1	KCNIP2	0.959113393	0.002473397
PSMD5-AS1	KCNIP2	0.97611649	0.000848821
AC087294.2	KCNIP2	0.956697989	0.002771999
AP001062.8	KCNIP2	0.960745909	0.002281083
RP11-455F5.3	KCNIP2	0.959945771	0.002374382
RP11-326C3.2	KCNIP2	0.946304786	0.004247358
AP006621.8	KCNIP2	0.969594027	0.001372729
JHDM1D-AS1	KCNIP2	0.952087803	0.003388375
LL21NC02-21A1.1	PRG3	0.820276582	0.045548182
RP11-20I23.6	KCNIP2	0.952980294	0.003264302
RP11-160E2.19	KCNIP2	0.920291941	0.009276854
AC011558.5	PRG3	0.812406016	0.049486397
CCDC144NL-AS1	ADC	-0.908849793	0.012083886
AC005786.7	KCNIP2	0.94586225	0.004317008
RP11-126K1.8	ADC	0.81612372	0.047607256
RP3-438O4.4	ADC	0.831775619	0.040068835
NUP50-AS1	ADC	0.827951132	0.041854826
AC005944.2	KCNIP2	0.983187351	0.000421622
TOPORS-AS1	ADC	0.848150266	0.032836811
AC087294.2	ADC	0.873001588	0.023168742
AP001062.8	ADC	0.842674747	0.035179856
RP11-455F5.3	ADC	0.886729661	0.018518616
CTB-191K22.5	KCNIP2	0.96913986	0.001413828
RP11-20I23.8	KCNIP2	0.955955404	0.002867168
JHDM1D-AS1	ADC	0.884631158	0.019197177
RP11-20I23.6	ADC	0.905689377	0.012922318
CDC37L1-AS1	KCNIP2	0.943407732	0.004713404
AC005786.7	ADC	0.871711733	0.023631143
AC005944.2	ADC	0.880872771	0.02044166
CTB-191K22.5	ADC	0.812850849	0.049259776

RP11-20I23.8	ADC	0.890363289	0.017371385
CDC37L1-AS1	ADC	0.842813822	0.035119403
RP5-1142A6.10	ADC	0.911426756	0.011420391
RP11-556I13.1	ADC	0.884590534	0.019210428
RP5-1142A6.10	KCNIP2	0.941955631	0.004955943
CCDC144NL-AS1	BTBD11	-0.89997173	0.014508058
RP11-556I13.1	KCNIP2	0.951844565	0.003422584
RP11-126K1.8	BTBD11	0.812242494	0.049569825
RP3-438O4.4	BTBD11	0.828278034	0.041700745
NUP50-AS1	BTBD11	0.825822802	0.042864477
CTA-315H11.2	KCNJ15	-0.950422231	0.003626003
TOPORS-AS1	BTBD11	0.845487081	0.033966924
AC087294.2	BTBD11	0.869869826	0.02429899
AP001062.8	BTBD11	0.839523431	0.036562739
RP11-455F5.3	BTBD11	0.883510544	0.019564321
RP11-66D17.5	KCNJ15	0.945171487	0.004426837
RP11-126K1.8	KCNJ15	0.970049483	0.001332117
JHDM1D-AS1	BTBD11	0.881307435	0.020295822
RP11-20I23.6	BTBD11	0.903733516	0.013454792
RP3-438O4.4	KCNJ15	0.990103688	0.000146421
AC005786.7	BTBD11	0.870229363	0.024167931
AC005944.2	BTBD11	0.882322174	0.019957301
CTB-191K22.5	BTBD11	0.811441852	0.049979248
RP11-20I23.8	BTBD11	0.887394939	0.018305939
CDC37L1-AS1	BTBD11	0.839874943	0.036407245
RP5-1142A6.10	BTBD11	0.910732641	0.011597321
RP11-556I13.1	BTBD11	0.881265794	0.020309771
NUP50-AS1	KCNJ15	0.981617171	0.000503787
CCDC144NL-AS1	SEMA4F	-0.899948504	0.01451468
PSMD5-AS1	KCNJ15	0.986413346	0.000275642
RP11-66D17.5	SEMA4F	0.884881422	0.019115638
TOPORS-AS1	KCNJ15	0.979324816	0.000636776
AC087294.2	KCNJ15	0.997974215	6.15E-06
AP001062.8	KCNJ15	0.989379211	0.000168603
RP11-455F5.3	KCNJ15	0.998714207	2.48E-06
RP11-326C3.2	KCNJ15	0.992810431	7.73E-05
AP006621.8	KCNJ15	0.988564368	0.000195413
JHDM1D-AS1	KCNJ15	0.999432516	4.83E-07
RP11-20I23.6	KCNJ15	0.998457131	3.57E-06
RP11-160E2.19	KCNJ15	0.954187856	0.003100055
AC005786.7	KCNJ15	0.992097481	9.34E-05
AC005944.2	KCNJ15	0.968967077	0.00142962
CTB-191K22.5	KCNJ15	0.974415399	0.000973484
RP11-20I23.8	KCNJ15	0.999777235	7.44E-08
CDC37L1-AS1	KCNJ15	0.992188872	9.13E-05
RP5-1142A6.10	KCNJ15	0.989885899	0.000152925
RP11-556I13.1	KCNJ15	0.99942513	4.96E-07
AC024028.1	KCNK17	0.963564757	0.001967106
RP11-498J9.2	KCNK17	0.999958561	2.58E-09
RP11-34P13.14	KCNK17	0.977677607	0.000741872
RP11-93O14.2	KCNK17	0.982155545	0.000474796
AC011558.5	SEMA4F	0.904022465	0.013375473
CCDC144NL-AS1	AFAP1L2	-0.891335939	0.017070271
RP11-485G7.6	KCNK17	0.96630955	0.001683449
PSMD5-AS1	AFAP1L2	0.900863222	0.014254988
TOPORS-AS1	AFAP1L2	0.814369282	0.048489843
AC087294.2	AFAP1L2	0.839757783	0.036459037
RP11-455F5.3	AFAP1L2	0.85493381	0.030039898
RP11-78A19.3	KCNK17	0.982546855	0.00045426
AP006621.8	AFAP1L2	0.910156642	0.011745143
JHDM1D-AS1	AFAP1L2	0.852488878	0.03103441
RP11-20I23.6	AFAP1L2	0.877352245	0.021641245
Z69720.3	KCNK17	0.986991638	0.000252726

AC005786.7	AFAP1L2	0.840495987	0.036133282
AC005944.2	AFAP1L2	0.856845765	0.029272863
RP11-20I23.8	AFAP1L2	0.859177908	0.028349981
RP5-1142A6.10	AFAP1L2	0.885906647	0.018783346
RP11-556I13.1	AFAP1L2	0.852445655	0.031052129
RP11-77G23.2	KCTD3	0.944784377	0.004488978
CCDC144NL-AS1	FEZ1	-0.900100402	0.014471399
CTD-2541M15.3	KCTD3	0.944662597	0.004508614
RP11-66D17.5	FEZ1	0.908994676	0.012046102
LLNLR-284B4.1	KDM5D	-0.952410252	0.003343286
CTD-2531D15.5	KIAA0114	0.922245461	0.00883361
RP11-770G2.2	KIAA0114	0.943054211	0.004771902
AC024028.1	KIAA0226	0.918085455	0.009790166
RP11-473M20.11	KIAA0226	0.944355471	0.004558324
CCDC144NL-AS1	KIAA0232	-0.921820454	0.008929144
CTA-315H11.2	KIAA0232	-0.975158246	0.000918004
RP11-126K1.8	KIAA0232	0.958572379	0.002538822
RP3-438O4.4	KIAA0232	0.973111628	0.001074757
NUP50-AS1	KIAA0232	0.958559477	0.002540392
PSMD5-AS1	KIAA0232	0.982496283	0.000456889
TOPORS-AS1	KIAA0232	0.953610033	0.003178127
AC087294.2	KIAA0232	0.986674832	0.000265157
AP001062.8	KIAA0232	0.973739009	0.001025404
RP11-455F5.3	KIAA0232	0.990946353	0.000122582
RP11-326C3.2	KIAA0232	0.992752435	7.86E-05
AP006621.8	KIAA0232	0.988104613	0.000211409
JHDM1D-AS1	KIAA0232	0.991625069	0.000104916
RP11-20I23.6	KIAA0232	0.986862364	0.000257762
RP11-160E2.19	KIAA0232	0.956641732	0.002779154
AC011558.5	FEZ1	0.87811232	0.021379491
AC005786.7	KIAA0232	0.970391278	0.001302036
AC005944.2	KIAA0232	0.948587608	0.003896904
CTB-191K22.5	KIAA0232	0.950637532	0.00359484
RP11-20I23.8	KIAA0232	0.991505863	0.000107919
CDC37L1-AS1	KIAA0232	0.977496733	0.000753898
RP5-1142A6.10	KIAA0232	0.971872198	0.001175633
RP11-556I13.1	KIAA0232	0.991610235	0.000105287
RP11-473M20.11	KIAA0748	0.925501083	0.008118395
RP11-498J9.2	KIAA0802	0.96076341	0.002279062
RP11-34P13.14	KIAA0802	0.962086765	0.002128872
RP11-93O14.2	KIAA0802	0.989248835	0.00017276
RP11-485G7.6	KIAA0802	0.95588042	0.002876866
RP11-78A19.3	KIAA0802	0.982992935	0.000431401
RP11-680G24.6	KIAA0802	0.953294048	0.003221226
LA16c-359F1.1	KIAA0802	0.977579637	0.000748374
Z69720.3	KIAA0802	0.964955222	0.001820685
RP11-160E2.19	KIAA1009	-0.918691736	0.009647785
AC011558.5	KIAA1009	-0.990054099	0.000147889
NUP50-AS1	KIAA1279	-0.929415197	0.007297487
PSMD5-AS1	KIAA1279	-0.956626831	0.00278105
TOPORS-AS1	KIAA1279	-0.919942081	0.009357349
AC087294.2	KIAA1279	-0.922954889	0.008675256
CCDC144NL-AS1	INPP4B	-0.896565715	0.015494673
AP001062.8	KIAA1279	-0.919107456	0.009550741
RP11-66D17.5	INPP4B	0.862544778	0.027042372
RP11-126K1.8	INPP4B	0.90460653	0.013215835
RP11-455F5.3	KIAA1279	-0.926015587	0.008008056
RP11-326C3.2	KIAA1279	-0.941274445	0.005071773
AP006621.8	KIAA1279	-0.950084983	0.003675082
JHDM1D-AS1	KIAA1279	-0.918051867	0.009798084
RP11-20I23.6	KIAA1279	-0.944489723	0.004536562
RP11-160E2.19	KIAA1279	-0.956735463	0.002767239
AC005786.7	KIAA1279	-0.944346585	0.004559766

AC005944.2	KIAA1279	-0.974684749	0.000953181
CTB-191K22.5	KIAA1279	-0.925495902	0.00811951
RP11-20I23.8	KIAA1279	-0.92567873	0.008080214
RP5-1142A6.10	KIAA1279	-0.962695685	0.002061461
RP11-556I13.1	KIAA1279	-0.917859111	0.009843581
CTA-315H11.2	KIAA1324	-0.955685751	0.002902118
RP11-66D17.5	KIAA1324	0.940065037	0.00528065
CTB-191K22.5	INPP4B	0.911882286	0.011304992
RP11-126K1.8	KIAA1324	0.966918822	0.001623445
RP3-438O4.4	KIAA1324	0.990175736	0.0001443
NUP50-AS1	KIAA1324	0.977321479	0.000765641
PSMD5-AS1	KIAA1324	0.983225402	0.000419721
AC011558.5	INPP4B	0.907006864	0.012569496
CCDC144NL-AS1	CDKL1	-0.865239052	0.026017106
TOPORS-AS1	KIAA1324	0.975344818	0.000904323
AC087294.2	KIAA1324	0.996788788	1.55E-05
AP001062.8	KIAA1324	0.986868281	0.000257531
RP11-455F5.3	KIAA1324	0.99756422	8.89E-06
RP11-326C3.2	KIAA1324	0.991664695	0.000103926
AP006621.8	KIAA1324	0.98615059	0.000286381
JHDM1D-AS1	KIAA1324	0.999300792	7.33E-07
RP11-20I23.6	KIAA1324	0.996404112	1.94E-05
RP11-160E2.19	KIAA1324	0.951305902	0.003498943
AC005786.7	KIAA1324	0.988612671	0.000193769
AC005944.2	KIAA1324	0.962838158	0.002045843
CTB-191K22.5	KIAA1324	0.970546633	0.001288476
RP11-20I23.8	KIAA1324	0.999163033	1.05E-06
CDC37L1-AS1	KIAA1324	0.993314644	6.69E-05
RP5-1142A6.10	KIAA1324	0.985547675	0.000311795
RP11-556I13.1	KIAA1324	0.999316747	7.00E-07
CTA-315H11.2	KIAA1539	-0.94270459	0.004830102
RP11-66D17.5	KIAA1539	0.959822761	0.002388888
RP11-126K1.8	KIAA1539	0.985668352	0.000306622
RP3-438O4.4	KIAA1539	0.989442653	0.000166598
LL21NC02-21A1.1	CDKL1	0.812754303	0.04930892
NUP50-AS1	KIAA1539	0.990230609	0.000142695
PSMD5-AS1	KIAA1539	0.989023179	0.000180075
CCDC144NL-AS1	AXIN2	-0.895802032	0.015720175
TOPORS-AS1	KIAA1539	0.973450824	0.001047931
RP11-66D17.5	AXIN2	0.914465546	0.010661323
AC087294.2	KIAA1539	0.998926881	1.73E-06
AP001062.8	KIAA1539	0.996455749	1.88E-05
RP11-455F5.3	KIAA1539	0.999667111	1.66E-07
RP11-326C3.2	KIAA1539	0.985460577	0.000315555
AP006621.8	KIAA1539	0.989041452	0.000179477
JHDM1D-AS1	KIAA1539	0.997507949	9.31E-06
RP11-20I23.6	KIAA1539	0.994448469	4.61E-05
RP11-160E2.19	KIAA1539	0.94000546	0.005291047
AC005786.7	KIAA1539	0.990052121	0.000147948
AC005944.2	KIAA1539	0.976544883	0.000818762
CTB-191K22.5	KIAA1539	0.985870538	0.000298052
RP11-20I23.8	KIAA1539	0.998098027	5.42E-06
CDC37L1-AS1	KIAA1539	0.989856169	0.000153824
RP5-1142A6.10	KIAA1539	0.983830486	0.000390066
RP11-556I13.1	KIAA1539	0.997419339	9.98E-06
AC024028.1	KIAA1598	0.958798209	0.00251141
RP11-498J9.2	KIAA1598	0.999701701	1.33E-07
RP11-34P13.14	KIAA1598	0.975934168	0.000861777
RP11-93O14.2	KIAA1598	0.984046643	0.000379734
RP11-485G7.6	KIAA1598	0.969496676	0.001381488
AC011558.5	AXIN2	0.872434132	0.023371633
CCDC144NL-AS1	ABCB1	-0.901558854	0.014059009
RP11-78A19.3	KIAA1598	0.983251139	0.000418437

Z69720.3	KIAA1598	0.986661955	0.000265669
CTD-2541M15.3	KIAA1704	0.934004243	0.00638944
RP4-784A16.3	KIAA1826	0.934484401	0.006297835
LLNLR-284B4.1	KIF11	-0.937803231	0.005682355
AC011558.5	KIF11	-0.942173695	0.00491914
RP11-77G23.2	KIF14	0.955615804	0.002911218
AC024028.1	KIF21B	0.96210138	0.002127241
RP11-473M20.11	KIF21B	0.992959968	7.42E-05
AC011558.5	KIF24	-0.952268592	0.003363058
RP3-337H4.8	KIF26A	0.96485854	0.001830685
CTD-2139B15.2	KIF26A	0.925615631	0.008093766
RP11-34P13.14	KIF3A	0.940166078	0.005263042
RP11-680G24.6	KIF3A	0.955228293	0.002961886
Z69720.3	KIF3A	0.922485071	0.00877997
AC024028.1	KIF3C	0.962803319	0.002049657
RP11-498J9.2	KIF3C	0.999623988	2.12E-07
RP11-34P13.14	KIF3C	0.981523659	0.000508909
RP11-93O14.2	KIF3C	0.985325647	0.000321425
RP11-485G7.6	KIF3C	0.962605423	0.002071386
RP11-78A19.3	KIF3C	0.983851278	0.000389066
Z69720.3	KIF3C	0.987760989	0.000223773
AC011558.5	ABCB1	0.865609992	0.025877424
CCDC144NL-AS1	NOS3	-0.879519747	0.020898822
RP11-91K8.5	KIF5A	0.925667298	0.008082669
RP11-91K8.5	KIF7	0.948066879	0.003975541
RP3-339A18.6	KIFC3	0.971112255	0.001239699
AC024028.1	KIRREL3	0.964355341	0.001883169
RP11-498J9.2	KIRREL3	1	0
RP11-34P13.14	KIRREL3	0.978552256	0.000685076
RP11-93O14.2	KIRREL3	0.982998398	0.000431125
RP11-485G7.6	KIRREL3	0.965304842	0.001784749
RP11-78A19.3	KIRREL3	0.983256999	0.000418145
Z69720.3	KIRREL3	0.986539728	0.000270549
RP3-339A18.6	KIT	0.960089099	0.002357533
RP11-118G23.2	KLF1	-0.917493052	0.009930266
LA16c-359F1.1	KLF10	0.953196417	0.0032346
BX322559.3	KLF10	-0.933557433	0.006475263
AC024028.1	KLF12	0.978231291	0.000705657
RP11-473M20.11	KLF12	0.998636159	2.79E-06
RP11-91K8.5	KLF15	0.985329735	0.000321246
CTA-315H11.2	KLF2	-0.944977165	0.004457977
RMRP	NOS3	0.831955375	0.039985788
PSMD5-AS1	KLF2	0.939024539	0.005463657
RP11-326C3.2	KLF2	0.956090267	0.002849767
AP006621.8	KLF2	0.946647894	0.004193739
RP11-20I23.6	KLF2	0.921480814	0.009005848
CCDC144NL-AS1	GLT1D1	-0.88175932	0.020144735
RP11-160E2.19	KLF2	0.990715473	0.000128903
RP5-1142A6.10	KLF2	0.927286265	0.007738702
AC011558.5	KLF2	0.968726966	0.001451711
AC024028.1	KLF4	0.974312979	0.00098126
RP11-498J9.2	KLF4	0.998755266	2.32E-06
RP11-34P13.14	KLF4	0.974578353	0.000961176
RP11-93O14.2	KLF4	0.976219869	0.000841518
RP11-485G7.6	KLF4	0.958228237	0.002580877
RP11-473M20.11	KLF4	0.931534025	0.006870914
RP11-78A19.3	KLF4	0.977964954	0.000722965
Z69720.3	KLF4	0.980198758	0.000584252
AC024028.1	KLF6	0.943417339	0.004711819
RP11-498J9.2	KLF6	0.985272099	0.000323769
RP11-34P13.14	KLF6	0.996730468	1.60E-05
RP11-93O14.2	KLF6	0.988014388	0.000214621
RP11-485G7.6	KLF6	0.934439977	0.006306283

RP11-78A19.3	KLF6	0.98321445	0.000420267
RP11-680G24.6	KLF6	0.917471538	0.009935372
LA16c-359F1.1	KLF6	0.931461732	0.006885262
Z69720.3	KLF6	0.988512747	0.000197178
CTA-315H11.2	KLF7	-0.974854521	0.000940493
RP11-126K1.8	KLF7	0.9447839	0.004489055
AC011558.5	GLT1D1	0.852860443	0.030882284
CCDC144NL-AS1	CXCR2	-0.871478551	0.023715201
RP3-438O4.4	KLF7	0.964805274	0.001836206
NUP50-AS1	KLF7	0.953724459	0.003162591
PSMD5-AS1	KLF7	0.987548853	0.000231581
TOPORS-AS1	KLF7	0.956553931	0.002790338
AC087294.2	KLF7	0.982082378	0.000478686
AP001062.8	KLF7	0.965940673	0.001720302
RP11-455F5.3	KLF7	0.986992433	0.000252695
RP11-326C3.2	KLF7	0.999452394	4.50E-07
AP006621.8	KLF7	0.992620584	8.15E-05
JHDM1D-AS1	KLF7	0.987563598	0.000231034
RP11-20I23.6	KLF7	0.990567867	0.000133028
RP11-160E2.19	KLF7	0.980273528	0.000579862
AC005786.7	KLF7	0.973913174	0.001011907
AC005944.2	KLF7	0.958153423	0.002590064
CTB-191K22.5	KLF7	0.944634075	0.004513219
RP11-20I23.8	KLF7	0.989000622	0.000180814
CDC37L1-AS1	KLF7	0.970541397	0.001288932
RP5-1142A6.10	KLF7	0.982979794	0.000432066
RP11-556I13.1	KLF7	0.987559214	0.000231197
RP3-337H4.8	KLHDC8A	0.942007799	0.004947126
CCDC144NL-AS1	KLHL24	-0.962799339	0.002050093
CTA-315H11.2	KLHL3	-0.965077521	0.001808074
AC011558.5	CXCR2	0.818801488	0.046274715
CCDC144NL-AS1	IKZF3	-0.846004111	0.033746115
CTA-315H11.2	IKZF3	-0.912597617	0.011124924
RP11-66D17.5	KLHL3	0.921198778	0.009069786
RP11-91K8.5	IKZF3	-0.864448351	0.026316044
RP11-326C3.2	IKZF3	0.85763928	0.02895728
AP006621.8	IKZF3	0.824346343	0.043571483
RP11-160E2.19	IKZF3	0.901200765	0.014159729
AC011558.5	IKZF3	0.907795559	0.012360543
RP11-126K1.8	KLHL3	0.957113614	0.002719424
RP3-438O4.4	KLHL3	0.977428497	0.000758459
NUP50-AS1	KLHL3	0.967802427	0.001538336
PSMD5-AS1	KLHL3	0.989112284	0.000177168
TOPORS-AS1	KLHL3	0.969258116	0.001403069
AC087294.2	KLHL3	0.990804342	0.000126451
AP001062.8	KLHL3	0.977847707	0.000730651
RP11-455F5.3	KLHL3	0.993904782	5.56E-05
RP11-326C3.2	KLHL3	0.998847434	1.99E-06
AP006621.8	KLHL3	0.992910251	7.52E-05
JHDM1D-AS1	KLHL3	0.994492366	4.54E-05
RP11-20I23.6	KLHL3	0.996254666	2.10E-05
RP11-160E2.19	KLHL3	0.971817948	0.001180151
AC005786.7	KLHL3	0.984230673	0.000371047
AC005944.2	KLHL3	0.96508036	0.001807782
CCDC144NL-AS1	NCRNA00118	-0.884291884	0.019307981
CTB-191K22.5	KLHL3	0.95920669	0.002462199
RP11-20I23.8	KLHL3	0.995530136	2.99E-05
CDC37L1-AS1	KLHL3	0.981415604	0.00051486
RP5-1142A6.10	KLHL3	0.988799243	0.000187483
RP11-556I13.1	KLHL3	0.994486417	4.55E-05
AC011558.5	KLHL6	0.940973864	0.005123301
AC024028.1	KLRB1	0.934410276	0.006311934
RP11-473M20.11	KLRB1	0.978668179	0.000677716

CTA-315H11.2	KLRC4	-0.946839558	0.004163932
RP11-66D17.5	KLRC4	0.94769205	0.004032622
RP11-126K1.8	KLRC4	0.971909924	0.001172496
RP3-438O4.4	KLRC4	0.991837664	9.97E-05
NUP50-AS1	KLRC4	0.9829668	0.000432724
PSMD5-AS1	KLRC4	0.984434112	0.00036156
TOPORS-AS1	KLRC4	0.980720185	0.000553984
AC087294.2	KLRC4	0.998603491	2.92E-06
AP001062.8	KLRC4	0.990744756	0.000128093
RP11-455F5.3	KLRC4	0.998974811	1.58E-06
RP11-326C3.2	KLRC4	0.990907397	0.000123637
AP006621.8	KLRC4	0.986600329	0.000268124
JHDM1D-AS1	KLRC4	0.999758998	8.71E-08
RP11-20I23.6	KLRC4	0.997809512	7.19E-06
AC011558.5	NCRNA00118	0.844638863	0.034330642
RP11-160E2.19	KLRC4	0.949045291	0.003828425
AC005786.7	KLRC4	0.992272696	8.93E-05
CCDC144NL-AS1	GBP1	-0.90072483	0.014294133
AC005944.2	KLRC4	0.966872739	0.001627946
RP11-126K1.8	GBP1	0.864829042	0.026171915
RP3-438O4.4	GBP1	0.878293357	0.02131737
NUP50-AS1	GBP1	0.880005945	0.020733988
CTB-191K22.5	KLRC4	0.975506979	0.000892515
TOPORS-AS1	GBP1	0.896682563	0.015460309
AC087294.2	GBP1	0.91383929	0.010815688
AP001062.8	GBP1	0.890061816	0.017465228
RP11-20I23.8	KLRC4	0.999827328	4.47E-08
CDC37L1-AS1	KLRC4	0.993230055	6.86E-05
RP5-1142A6.10	KLRC4	0.988656855	0.000192271
RP11-556I13.1	KLRC4	0.999752108	9.22E-08
AC011558.5	KREMEN1	-0.95592902	0.002870578
CTD-2139B15.2	KRT13	0.926502785	0.007904251
AC005786.7	GBP1	0.91621408	0.010236029
RP11-91K8.5	KRT13	0.985082243	0.000332149
CTB-191K22.5	GBP1	0.865401362	0.025955942
AC024028.1	KRT15	0.963387767	0.001986145
CDC37L1-AS1	GBP1	0.885500132	0.01891477
RP11-498J9.2	KRT15	0.99990061	1.48E-08
RP11-34P13.14	KRT15	0.980384714	0.000573366
RP11-93O14.2	KRT15	0.983481889	0.000407018
CCDC144NL-AS1	RASGRP1	-0.899957519	0.014512109
RP11-485G7.6	KRT15	0.963867384	0.001934762
RP11-66D17.5	RASGRP1	0.90909156	0.012020867
RP11-78A19.3	KRT15	0.982774742	0.000442509
Z69720.3	KRT15	0.988404834	0.000200892
RP3-339A18.6	KRT19	0.940759659	0.005160177
CTA-315H11.2	KRT23	-0.953993616	0.003126193
RP11-66D17.5	KRT23	0.940593327	0.005188902
RP11-126K1.8	KRT23	0.968107949	0.001509436
RP3-438O4.4	KRT23	0.988690535	0.000191133
NUP50-AS1	KRT23	0.978998337	0.000656973
PSMD5-AS1	KRT23	0.986365645	0.000277576
TOPORS-AS1	KRT23	0.977510761	0.000752962
AC087294.2	KRT23	0.997131304	1.23E-05
AP001062.8	KRT23	0.987626856	0.000228695
RP11-455F5.3	KRT23	0.99826362	4.52E-06
RP11-326C3.2	KRT23	0.99387251	5.62E-05
AP006621.8	KRT23	0.989030604	0.000179831
JHDM1D-AS1	KRT23	0.999157956	1.06E-06
RP11-20I23.6	KRT23	0.998014875	5.91E-06
RP11-160E2.19	KRT23	0.956148119	0.002842318
AC005786.7	KRT23	0.99043463	0.000136807
AC005944.2	KRT23	0.96683841	0.001631303

AC011558.5	RASGRP1	0.878013435	0.021413459
CCDC144NL-AS1	TLR1	-0.895862192	0.015702354
CTB-191K22.5	KRT23	0.971483699	0.001208175
RP11-66D17.5	TLR1	0.902412669	0.013820255
RP11-20I23.8	KRT23	0.999455874	4.44E-07
CDC37L1-AS1	KRT23	0.991126736	0.000117753
RP5-1142A6.10	KRT23	0.98898902	0.000181195
RP11-556I13.1	KRT23	0.99915506	1.07E-06
AC024028.1	KRT79	0.961809382	0.002159934
RP11-498J9.2	KRT79	0.999625219	2.11E-07
RP11-34P13.14	KRT79	0.982789119	0.000441773
RP11-93O14.2	KRT79	0.98593712	0.000295256
RP11-485G7.6	KRT79	0.962892157	0.002039939
RP11-78A19.3	KRT79	0.984737181	0.000347653
Z69720.3	KRT79	0.988954478	0.000182332
AC024028.1	KRT81	0.964355341	0.001883169
RP11-498J9.2	KRT81	1	0
RP11-34P13.14	KRT81	0.978552256	0.000685076
RP11-93O14.2	KRT81	0.982998398	0.000431125
RP11-485G7.6	KRT81	0.965304842	0.001784749
RP11-78A19.3	KRT81	0.983256999	0.000418145
Z69720.3	KRT81	0.986539728	0.000270549
AC024028.1	KRT86	0.963180236	0.002008584
RP11-498J9.2	KRT86	0.99989575	1.63E-08
AC011558.5	TLR1	0.895199389	0.015899231
CCDC144NL-AS1	ITSN1	-0.880411206	0.020597071
RP11-34P13.14	KRT86	0.976779228	0.000802546
RP11-93O14.2	KRT86	0.983128283	0.000424581
RP11-485G7.6	KRT86	0.96663954	0.001650817
RP11-78A19.3	KRT86	0.982943623	0.000433899
Z69720.3	KRT86	0.985522396	0.000312884
RP11-66D17.5	KYNU	-0.920419718	0.00924754
RP11-126K1.8	KYNU	-0.934044505	0.006381733
LL21NC02-21A1.1	KYNU	-0.948380192	0.003928134
RP11-498J9.2	L1CAM	0.947596845	0.004047184
RP11-34P13.14	L1CAM	0.967769124	0.001541503
RP11-93O14.2	L1CAM	0.985497309	0.000313967
RP11-78A19.3	L1CAM	0.973670863	0.001030709
RP11-680G24.6	L1CAM	0.953175733	0.003237437
LA16c-359F1.1	L1CAM	0.952489336	0.003332273
Z69720.3	L1CAM	0.950215476	0.003656053
AC011558.5	LAIR1	0.951403359	0.003485067
RP11-93O14.2	LAMA5	0.92037435	0.009257943
RP11-485G7.6	LAMA5	0.973210428	0.001066909
RMRP	ITSN1	0.838792207	0.036887199
RP11-78A19.3	LAMA5	0.91878354	0.009626314
LA16c-359F1.1	LAMA5	0.92500415	0.008225664
LL21NC02-21A1.1	ITSN1	0.818542384	0.046402884
Z69720.3	LAMA5	0.920843198	0.009150709
RP11-93O14.2	LAMB2	0.918529677	0.009685744
CCDC144NL-AS1	CREB5	-0.889308019	0.017700933
CTA-315H11.2	CREB5	-0.911553641	0.01138819
PSMD5-AS1	CREB5	0.880231853	0.020657612
AC087294.2	CREB5	0.816656605	0.047340675
RP11-455F5.3	CREB5	0.832870229	0.039564376
RP11-326C3.2	CREB5	0.905675067	0.012926176
AP006621.8	CREB5	0.891170707	0.017121245
JHDM1D-AS1	CREB5	0.831355203	0.040263382
RP11-20I23.6	CREB5	0.856557972	0.029387719
RP11-485G7.6	LAMB2	0.953642177	0.003173759
AC005786.7	CREB5	0.816320416	0.047508776
AC005944.2	CREB5	0.830488371	0.040665899
RP11-20I23.8	CREB5	0.837948264	0.037263346

RP5-1142A6.10	CREB5	0.864850443	0.026163824
RP11-556I13.1	CREB5	0.831338288	0.040271219
RP3-339A18.6	LAMC1	0.967324552	0.001584084
CCDC144NL-AS1	PPFIBP2	-0.860003469	0.028026645
AC011558.5	LAP3	-0.955561809	0.002918252
RP11-93O14.2	LAPTM4B	0.938526134	0.005552398
RP4-784A16.3	LARP4	0.953405311	0.003206018
AC024028.1	LASS4	0.991217652	0.000115356
RP11-498J9.2	LASS4	0.938683464	0.00552431
RP11-34P13.14	LASS4	0.917870585	0.00984087
RP11-473M20.11	LASS4	0.990412988	0.000137426
AC024028.1	LAT	0.988042787	0.000213608
RP11-498J9.2	LAT	0.928482693	0.007489192
RP11-34P13.14	LAT	0.943914287	0.004630199
RP11-473M20.11	LAT	0.980234457	0.000582154
AC024028.1	LAT2	0.987654299	0.000227684
RP11-498J9.2	LAT2	0.993099846	7.13E-05
RP11-34P13.14	LAT2	0.970748412	0.001270968
RP11-93O14.2	LAT2	0.961430365	0.002202737
RP11-485G7.6	LAT2	0.93884975	0.005494699
RP11-473M20.11	LAT2	0.955117905	0.002976398
RP11-78A19.3	LAT2	0.965520669	0.001762742
Z69720.3	LAT2	0.971644153	0.001194681
AC024028.1	LATS2	0.983692972	0.000396711
LL21NC02-21A1.1	PPFIBP2	0.829839475	0.040968441
RP11-498J9.2	LATS2	0.961678037	0.00217472
RP11-34P13.14	LATS2	0.984862979	0.00034196
AC011558.5	PPFIBP2	0.8199764	0.045695598
RP11-66D17.5	ABI3	0.912129449	0.011242616
RP11-126K1.8	ABI3	0.847850138	0.032963268
RP3-438O4.4	ABI3	0.893196179	0.016501426
NUP50-AS1	ABI3	0.91079401	0.011581625
PSMD5-AS1	ABI3	0.860372491	0.027882684
RP11-93O14.2	LATS2	0.934332557	0.006326734
AC087294.2	ABI3	0.886678399	0.018535052
AP001062.8	ABI3	0.888635972	0.017912355
RP11-455F5.3	ABI3	0.876577945	0.021909461
RP11-326C3.2	ABI3	0.863199438	0.026791521
AP006621.8	ABI3	0.852226664	0.031141978
JHDM1D-AS1	ABI3	0.876843125	0.021817426
RP11-20I23.6	ABI3	0.901280471	0.01413728
RP11-160E2.19	ABI3	0.842079177	0.035439287
RP11-473M20.11	LATS2	0.95324974	0.003227292
AC005944.2	ABI3	0.899077544	0.014764048
CTB-191K22.5	ABI3	0.897123798	0.015330874
RP11-20I23.8	ABI3	0.880434777	0.020589121
CDC37L1-AS1	ABI3	0.88365796	0.019515833
RP11-78A19.3	LATS2	0.93326413	0.006531904
RP11-556I13.1	ABI3	0.876877028	0.021805672
CCDC144NL-AS1	GIMAP4	-0.863651531	0.026618937
Z69720.3	LATS2	0.960545108	0.002304323
LLNLR-284B4.1	LBR	-0.945991222	0.004296652
RP11-77G23.2	LBR	0.932543148	0.006672162
CTD-2541M15.3	LBR	0.959133449	0.002470987
CTA-315H11.2	LCK	-0.955830773	0.002883296
RP11-66D17.5	LCK	0.937817526	0.005679771
RP11-126K1.8	LCK	0.966364846	0.001677959
RP3-438O4.4	LCK	0.98677716	0.000261109
NUP50-AS1	LCK	0.977594952	0.000747356
PSMD5-AS1	LCK	0.987591718	0.000229993
TOPORS-AS1	LCK	0.976658234	0.000810898
AC087294.2	LCK	0.996281836	2.07E-05
AP001062.8	LCK	0.986211694	0.000283865

RP11-455F5.3	LCK	0.99776378	7.50E-06
RP11-326C3.2	LCK	0.995268743	3.35E-05
AP006621.8	LCK	0.990340037	0.000139522
JHDM1D-AS1	LCK	0.998515856	3.30E-06
RP11-20I23.6	LCK	0.998266124	4.51E-06
RP11-160E2.19	LCK	0.960077338	0.002358914
AC005786.7	LCK	0.990037872	0.000148372
LL21NC02-21A1.1	GIMAP4	0.820214741	0.045578533
AC005944.2	LCK	0.967778859	0.001540577
CTB-191K22.5	LCK	0.969904197	0.001345006
CCDC144NL-AS1	FAM159A	-0.910094598	0.01176112
RP11-20I23.8	LCK	0.999036315	1.39E-06
RP11-66D17.5	FAM159A	0.872120278	0.023484212
CDC37L1-AS1	LCK	0.989483172	0.000165324
RP5-1142A6.10	LCK	0.98990327	0.000152401
RP11-556I13.1	LCK	0.998510696	3.33E-06
RP5-1033H22.2	LCN6	0.994493417	4.54E-05
RP11-21J18.1	LCN6	0.940801092	0.005153034
RP11-298J23.8	LCN6	0.984593591	0.000354208
RP11-165D6.1	LCN6	0.994427584	4.65E-05
AC024028.1	LCP2	0.942357733	0.004888185
RP11-473M20.11	LCP2	0.950788201	0.003573111
CTA-315H11.2	LDHD	0.970477655	0.001294488
RP3-438O4.4	LDHD	-0.937773243	0.005687778
PSMD5-AS1	LDHD	-0.939591293	0.005363596
TOPORS-AS1	LDHD	-0.920291004	0.00927707
AC087294.2	LDHD	-0.945076526	0.004442041
RP11-455F5.3	LDHD	-0.948725283	0.003876242
RP11-326C3.2	LDHD	-0.970721026	0.001273338
AP006621.8	LDHD	-0.948871608	0.003854341
JHDM1D-AS1	LDHD	-0.957844569	0.002628164
RP11-20I23.6	LDHD	-0.957556098	0.002663996
RP11-160E2.19	LDHD	-0.957068574	0.002725097
AC011558.5	FAM159A	0.915814408	0.0103325
CCDC144NL-AS1	WDR86	-0.892093192	0.016837592
AC005786.7	LDHD	-0.935838801	0.006042924
RP11-20I23.8	LDHD	-0.957335243	0.002691591
CDC37L1-AS1	LDHD	-0.951104603	0.003527691
RP5-1142A6.10	LDHD	-0.945729397	0.004338026
RP11-556I13.1	LDHD	-0.958060582	0.002601488
RP11-680G24.6	LDLR	0.953106904	0.003246886
RP3-339A18.6	LDLRAD3	0.986305059	0.000280043
CTA-315H11.2	LDLRAP1	-0.93436447	0.006320655
RP11-66D17.5	LDLRAP1	0.961418797	0.00220405
RP11-126K1.8	LDLRAP1	0.972530516	0.001121495
RP3-438O4.4	LDLRAP1	0.995673107	2.80E-05
NUP50-AS1	LDLRAP1	0.987786032	0.00022286
PSMD5-AS1	LDLRAP1	0.979744227	0.000611289
TOPORS-AS1	LDLRAP1	0.982844161	0.00043896
AC087294.2	LDLRAP1	0.99839507	3.86E-06
AP001062.8	LDLRAP1	0.992710424	7.95E-05
RP11-455F5.3	LDLRAP1	0.996842484	1.49E-05
RP11-326C3.2	LDLRAP1	0.983244046	0.000418791
AP006621.8	LDLRAP1	0.980005035	0.000595701
JHDM1D-AS1	LDLRAP1	0.998176975	4.98E-06
RP11-20I23.6	LDLRAP1	0.99623472	2.12E-05
RP11-160E2.19	LDLRAP1	0.938614571	0.005536601
AC011558.5	WDR86	0.853482388	0.030628439
RP11-770G2.2	GALNT14	0.820326415	0.045523731
AC005943.6	GALNT14	0.844939589	0.034201481
AC005786.7	LDLRAP1	0.99509786	3.60E-05
AC005944.2	LDLRAP1	0.970734231	0.001272195
CTB-191K22.5	LDLRAP1	0.982795732	0.000441434

RP11-20I23.8	LDLRAP1	0.998212113	4.79E-06
CDC37L1-AS1	LDLRAP1	0.997366192	1.04E-05
RP5-1142A6.10	LDLRAP1	0.98791185	0.000218302
RP11-556I13.1	LDLRAP1	0.998183244	4.95E-06
CTA-315H11.2	LEF1	-0.966774454	0.001637566
RP11-126K1.8	LEF1	0.938578825	0.005542983
RP3-438O4.4	LEF1	0.971057832	0.001244352
NUP50-AS1	LEF1	0.954867426	0.003009458
PSMD5-AS1	LEF1	0.981906242	0.000488114
TOPORS-AS1	LEF1	0.965947836	0.001719582
AC087294.2	LEF1	0.983430782	0.000409534
AP001062.8	LEF1	0.965787531	0.001735717
RP11-455F5.3	LEF1	0.986568788	0.000269385
RP11-326C3.2	LEF1	0.998300868	4.33E-06
AP006621.8	LEF1	0.986999399	0.000252425
JHDM1D-AS1	LEF1	0.989317769	0.000170556
RP11-20I23.6	LEF1	0.993039057	7.25E-05
RP11-160E2.19	LEF1	0.978266033	0.000703415
AC005786.7	LEF1	0.979408454	0.000631652
CCDC144NL-AS1	CCDC157	-0.860079105	0.02799711
AC005944.2	LEF1	0.955403696	0.002938898
CTB-191K22.5	LEF1	0.944991339	0.004455702
RP11-20I23.8	LEF1	0.990335996	0.000139638
CDC37L1-AS1	LEF1	0.976974845	0.000789133
RP5-1142A6.10	LEF1	0.987291973	0.000241215
RP11-556I13.1	LEF1	0.989372954	0.000168801
CTA-315H11.2	LENG8	-0.969600849	0.001372116
RP11-66D17.5	LENG8	0.926662819	0.007870297
RP11-126K1.8	LENG8	0.961823623	0.002158334
RP3-438O4.4	LENG8	0.978163983	0.000710012
NUP50-AS1	LENG8	0.969970052	0.001339156
PSMD5-AS1	LENG8	0.991136182	0.000117503
TOPORS-AS1	LENG8	0.963501712	0.001973877
AC087294.2	LENG8	0.991525869	0.000107412
AP001062.8	LENG8	0.980012478	0.000595259
RP11-455F5.3	LENG8	0.994591957	4.38E-05
RP11-326C3.2	LENG8	0.996734991	1.60E-05
AP006621.8	LENG8	0.993969903	5.44E-05
JHDM1D-AS1	LENG8	0.994760487	4.11E-05
RP11-20I23.6	LENG8	0.995082133	3.62E-05
RP11-160E2.19	LENG8	0.968362611	0.001485553
AC005786.7	LENG8	0.982881191	0.000437072
AC011558.5	CCDC157	0.848999732	0.032480137
CCDC144NL-AS1	NBPF9	-0.916029165	0.010280608
AC005944.2	LENG8	0.969659575	0.001366847
RP11-126K1.8	NBPF9	0.85507879	0.029981407
RP3-438O4.4	NBPF9	0.891492875	0.017021924
NUP50-AS1	NBPF9	0.869954202	0.024268203
CTB-191K22.5	LENG8	0.964335992	0.001885201
TOPORS-AS1	NBPF9	0.89340453	0.016438291
RP11-20I23.8	LENG8	0.995860391	2.57E-05
AP001062.8	NBPF9	0.887460525	0.018285036
CDC37L1-AS1	LENG8	0.983394958	0.000411302
RP5-1142A6.10	LENG8	0.985536464	0.000312278
RP11-556I13.1	LENG8	0.994738817	4.14E-05
AC024028.1	LEP	0.957291294	0.002697099
RP11-498J9.2	LEP	0.998897739	1.82E-06
RP11-34P13.14	LEP	0.970073541	0.001329988
AC005786.7	NBPF9	0.913352585	0.010936397
AC005944.2	NBPF9	0.901362563	0.014114177
CTB-191K22.5	NBPF9	0.856813488	0.029285734
RP11-93O14.2	LEP	0.97850841	0.000687869
CDC37L1-AS1	NBPF9	0.903977271	0.013387864

RP11-485G7.6	LEP	0.972459549	0.00112727
RP11-78A19.3	LEP	0.978654348	0.000678592
Z69720.3	LEP	0.986104125	0.000288301
AC024028.1	LEPREL2	0.961463686	0.002198957
RP11-498J9.2	LEPREL2	0.999482898	4.01E-07
RP11-34P13.14	LEPREL2	0.974325026	0.000980344
RP11-93O14.2	LEPREL2	0.983007541	0.000430662
RP11-485G7.6	LEPREL2	0.968002052	0.001519422
RP11-78A19.3	LEPREL2	0.98227896	0.00046827
Z69720.3	LEPREL2	0.9839931	0.000382281
AC024028.1	LEPREL4	0.931052166	0.006966823
RP11-498J9.2	LEPREL4	0.98908391	0.000178091
RP11-34P13.14	LEPREL4	0.961938405	0.002145458
RP11-93O14.2	LEPREL4	0.982599024	0.000451556
RP11-485G7.6	LEPREL4	0.968656769	0.001458201
RP11-78A19.3	LEPREL4	0.974257245	0.000985504
Z69720.3	LEPREL4	0.977745883	0.000737358
CTA-315H11.2	LFNG	-0.967065694	0.001609141
RP11-126K1.8	LFNG	0.935530595	0.006100479
RP3-438O4.4	LFNG	0.956077725	0.002851383
NUP50-AS1	LFNG	0.949208494	0.00380415
PSMD5-AS1	LFNG	0.987213361	0.000244202
TOPORS-AS1	LFNG	0.956135217	0.002843978
AC087294.2	LFNG	0.97597619	0.000858783
AP001062.8	LFNG	0.959051516	0.002480837
CCDC144NL-AS1	ARAP3	-0.894887235	0.015992361
RP11-455F5.3	LFNG	0.981239371	0.00052464
RP11-66D17.5	ARAP3	0.913786353	0.010828785
RP11-326C3.2	LFNG	0.999013053	1.46E-06
AP006621.8	LFNG	0.991709436	0.000102815
JHDM1D-AS1	LFNG	0.981122171	0.000531195
RP11-20I23.6	LFNG	0.988969677	0.000181831
RP11-160E2.19	LFNG	0.988989244	0.000181188
AC005786.7	LFNG	0.972982963	0.00108502
AC005944.2	LFNG	0.961195701	0.002229445
CTB-191K22.5	LFNG	0.938995958	0.005468727
RP11-20I23.8	LFNG	0.983561437	0.000403118
CDC37L1-AS1	LFNG	0.961627671	0.002180403
RP5-1142A6.10	LFNG	0.986343257	0.000278486
RP11-556I13.1	LFNG	0.981108425	0.000531966
AC024028.1	LGALS1	0.95208038	0.003389416
RP11-498J9.2	LGALS1	0.997788596	7.33E-06
RP11-34P13.14	LGALS1	0.974200497	0.000989835
RP11-93O14.2	LGALS1	0.981540096	0.000508007
RP11-485G7.6	LGALS1	0.968004603	0.001519181
RP11-78A19.3	LGALS1	0.977473238	0.000755467
Z69720.3	LGALS1	0.98941096	0.000167598
RP11-770G2.2	LGMN	0.935578052	0.006091599
AC011558.5	ARAP3	0.868368928	0.02484974
CTA-315H11.2	ZNF653	-0.883302046	0.019632998
CTD-2541M15.3	LGR4	0.925184233	0.008186712
CTD-2541M15.3	LHFP	0.982582049	0.000452435
AC024028.1	LIF	0.963716847	0.001950818
RP11-498J9.2	LIF	0.99999603	2.36E-11
RP11-34P13.14	LIF	0.978574608	0.000683654
RP11-93O14.2	LIF	0.9834589	0.000408149
RP11-485G7.6	LIF	0.965734357	0.001741085
RP11-78A19.3	LIF	0.983627653	0.000399886
Z69720.3	LIF	0.98656946	0.000269358
CTA-315H11.2	LILRA3	-0.944429595	0.004546302
RP11-66D17.5	LILRA3	0.951313131	0.003497913
RP11-126K1.8	LILRA3	0.972680363	0.001109349
RP3-438O4.4	LILRA3	0.993467049	6.39E-05

RP11-160E2.19	ZNF653	0.874908183	0.022493228
NUP50-AS1	LILRA3	0.984423709	0.000362042
PSMD5-AS1	LILRA3	0.983298528	0.000416079
TOPORS-AS1	LILRA3	0.981428343	0.000514157
AC087294.2	LILRA3	0.999049778	1.35E-06
AP001062.8	LILRA3	0.99172301	0.000102479
RP11-455F5.3	LILRA3	0.998934797	1.70E-06
RP11-326C3.2	LILRA3	0.989199679	0.00017434
AP006621.8	LILRA3	0.98508817	0.000331886
CCDC144NL-AS1	E2F2	-0.839383936	0.036624532
JHDM1D-AS1	LILRA3	0.999924175	8.62E-09
RP11-20I23.6	LILRA3	0.997615735	8.52E-06
RP11-160E2.19	LILRA3	0.94596867	0.004300208
AC005786.7	LILRA3	0.993070606	7.19E-05
AC005944.2	LILRA3	0.967416377	0.001575242
CTB-191K22.5	LILRA3	0.977563584	0.000749442
RP11-20I23.8	LILRA3	0.99989936	1.52E-08
CDC37L1-AS1	LILRA3	0.994918973	3.87E-05
RP5-1142A6.10	LILRA3	0.988306262	0.000204316
RP11-556I13.1	LILRA3	0.999921774	9.18E-09
CTA-315H11.2	LILRA6	-0.925221082	0.008178752
RP11-66D17.5	LILRA6	0.957794343	0.002634385
RP11-126K1.8	LILRA6	0.967266586	0.001589678
RP3-438O4.4	LILRA6	0.99052393	0.000134268
RP11-160E2.19	E2F2	0.913452157	0.010911649
NUP50-AS1	LILRA6	0.98756605	0.000230944
PSMD5-AS1	LILRA6	0.982397124	0.000462065
TOPORS-AS1	LILRA6	0.990085754	0.000146951
RMRP	E2F2	0.812724363	0.049324166
AC087294.2	LILRA6	0.996256638	2.10E-05
AP001062.8	LILRA6	0.989946866	0.00015109
LL21NC02-21A1.1	E2F2	0.878040137	0.021404284
RP11-455F5.3	LILRA6	0.995111376	3.58E-05
RP11-326C3.2	LILRA6	0.987137843	0.000247089
CCDC144NL-AS1	HAL	-0.855648465	0.029752095
CTA-315H11.2	HAL	-0.872919928	0.023197887
PSMD5-AS1	HAL	0.850150136	0.032000035
RP11-326C3.2	HAL	0.874352807	0.022689016
AP006621.8	HAL	0.86038004	0.027879743
RP11-20I23.6	HAL	0.822516049	0.044455408
AP006621.8	LILRA6	0.982492859	0.000457067
RP5-1142A6.10	HAL	0.837163089	0.037614909
JHDM1D-AS1	LILRA6	0.995459551	3.09E-05
RP11-20I23.6	LILRA6	0.998902779	1.81E-06
RP11-160E2.19	LILRA6	0.950676814	0.003589169
AC005786.7	LILRA6	0.998920461	1.75E-06
AC005944.2	LILRA6	0.975310819	0.000906809
CTB-191K22.5	LILRA6	0.979497038	0.000626248
RP11-20I23.8	LILRA6	0.996456731	1.88E-05
CDC37L1-AS1	LILRA6	0.990541881	0.000133761
RP5-1142A6.10	LILRA6	0.996613838	1.72E-05
RP11-556I13.1	LILRA6	0.99545095	3.10E-05
CTA-315H11.2	LILRB2	-0.962681712	0.002062996
RP11-126K1.8	LILRB2	0.918911093	0.00959652
RP3-438O4.4	LILRB2	0.931893987	0.006799691
NUP50-AS1	LILRB2	0.932542953	0.0066722
PSMD5-AS1	LILRB2	0.984017221	0.000381132
TOPORS-AS1	LILRB2	0.936953529	0.005836986
RP11-66D17.5	CCDC66	0.839029618	0.036781707
RP11-126K1.8	CCDC66	0.849449748	0.032291928
RP3-438O4.4	CCDC66	0.86965633	0.024376973
NUP50-AS1	CCDC66	0.83486422	0.038653127
TOPORS-AS1	CCDC66	0.825117513	0.043201534

AC087294.2	CCDC66	0.838944596	0.036819469
AP001062.8	CCDC66	0.849667628	0.032200991
RP11-455F5.3	CCDC66	0.829092077	0.041318208
JHDM1D-AS1	CCDC66	0.835218012	0.038492484
CTB-191K22.5	CCDC66	0.826783527	0.042407331
AC087294.2	LILRB2	0.958842742	0.002506021
RP11-20I23.8	CCDC66	0.825422358	0.043055697
CDC37L1-AS1	CCDC66	0.857017554	0.029204405
RP11-556I13.1	CCDC66	0.835300283	0.038455173
CCDC144NL-AS1	ADARB2	-0.879906551	0.020767635
CTA-315H11.2	ADARB2	-0.905395212	0.013001739
PSMD5-AS1	ADARB2	0.881305864	0.020296348
AC087294.2	ADARB2	0.81417276	0.048589173
RP11-455F5.3	ADARB2	0.830419674	0.040697879
RP11-326C3.2	ADARB2	0.903025078	0.013650221
AP006621.8	ADARB2	0.891015088	0.017169321
JHDM1D-AS1	ADARB2	0.827710791	0.041968278
RP11-20I23.6	ADARB2	0.854833548	0.03008038
AP001062.8	LILRB2	0.941111006	0.005099759
AC005786.7	ADARB2	0.815836315	0.047751322
AC005944.2	ADARB2	0.83596864	0.038152693
RP11-20I23.8	ADARB2	0.834944992	0.038616424
RP5-1142A6.10	ADARB2	0.865072418	0.02607997
RP11-556I13.1	ADARB2	0.827664965	0.041989926
RP11-455F5.3	LILRB2	0.966127178	0.00170162
CCDC144NL-AS1	LRRK2	-0.85080753	0.031727197
CTA-315H11.2	LRRK2	-0.871143963	0.023836062
CTD-2541M15.3	LRRK2	-0.811679136	0.049857746
PSMD5-AS1	LRRK2	0.845877943	0.033799935
RP11-326C3.2	LRRK2	0.868137261	0.024935273
AP006621.8	LRRK2	0.855708162	0.029728114
RP11-20I23.6	LRRK2	0.815121993	0.048110262
RP11-326C3.2	LILRB2	0.992368113	8.71E-05
RP5-1142A6.10	LRRK2	0.82968151	0.041042249
AP006621.8	LILRB2	0.987879062	0.000219485
JHDM1D-AS1	LILRB2	0.963942757	0.001926748
RP11-20I23.6	LILRB2	0.976951844	0.000790704
RP3-438O4.4	ALPL	0.905612861	0.012942954
RP11-160E2.19	LILRB2	0.996459659	1.88E-05
PSMD5-AS1	ALPL	0.895081325	0.015934424
TOPORS-AS1	ALPL	0.877074533	0.021737263
AC087294.2	ALPL	0.912712051	0.011096248
AC005786.7	LILRB2	0.958248452	0.002578397
RP11-455F5.3	ALPL	0.909141259	0.012007933
RP11-326C3.2	ALPL	0.846178664	0.033671722
AP006621.8	ALPL	0.883171016	0.019676217
JHDM1D-AS1	ALPL	0.894712001	0.016044756
RP11-20I23.6	ALPL	0.882917784	0.019759872
AC005786.7	ALPL	0.899253986	0.014713365
AC005944.2	LILRB2	0.959659198	0.002408246
CTB-191K22.5	LILRB2	0.922714866	0.008728676
RMRP	ALPL	0.819291356	0.046032845
RP11-20I23.8	ALPL	0.895700862	0.015750166
CDC37L1-AS1	ALPL	0.89339736	0.016440462
RP11-20I23.8	LILRB2	0.967960869	0.001523315
RP5-1142A6.10	ALPL	0.868434687	0.024825487
RP11-556I13.1	ALPL	0.894282171	0.016173624
CDC37L1-AS1	LILRB2	0.938517189	0.005553997
RP5-1142A6.10	LILRB2	0.97821036	0.00070701
RP11-556I13.1	LILRB2	0.963882459	0.001933158
AC011558.5	LILRB2	0.925060197	0.008213531
CTA-315H11.2	LILRB3	-0.942840752	0.004807395
RP11-66D17.5	LILRB3	0.943812441	0.00464687

RP11-126K1.8	LILRB3	0.964261436	0.001893044
RP3-438O4.4	LILRB3	0.985919988	0.000295974
NUP50-AS1	LILRB3	0.98106969	0.000534143
PSMD5-AS1	LILRB3	0.987668142	0.000227174
TOPORS-AS1	LILRB3	0.983587982	0.000401821
AC087294.2	LILRB3	0.99542884	3.13E-05
AP001062.8	LILRB3	0.986308695	0.000279895
RP11-455F5.3	LILRB3	0.996160653	2.21E-05
RP11-326C3.2	LILRB3	0.994345497	4.79E-05
AP006621.8	LILRB3	0.989223423	0.000173576
JHDM1D-AS1	LILRB3	0.996405236	1.94E-05
RP11-20I23.6	LILRB3	0.999885195	1.98E-08
RP11-160E2.19	LILRB3	0.963066913	0.00202089
AC005786.7	LILRB3	0.994930471	3.85E-05
AC005944.2	LILRB3	0.973897259	0.001013137
CTB-191K22.5	LILRB3	0.97254323	0.001120462
RP11-20I23.8	LILRB3	0.997587121	8.73E-06
CDC37L1-AS1	LILRB3	0.987477799	0.000234227
RP5-1142A6.10	LILRB3	0.996176479	2.19E-05
RP11-556I13.1	LILRB3	0.99639369	1.95E-05
RP11-770G2.2	LILRB4	0.91834258	0.009729658
RP11-770G2.2	LILRB5	0.934591534	0.006277484
AC005943.6	LILRB5	0.919937672	0.009358366
RP11-66D17.5	LIMA1	-0.993513959	6.30E-05
RP11-126K1.8	LIMA1	-0.952324877	0.003355195
RP3-438O4.4	LIMA1	-0.950043486	0.003681143
NUP50-AS1	LIMA1	-0.974380883	0.000976101
TOPORS-AS1	LIMA1	-0.938534507	0.005550902
AC087294.2	LIMA1	-0.943896583	0.004633095
AP001062.8	LIMA1	-0.96065529	0.002291556
RP11-455F5.3	LIMA1	-0.935162555	0.006169556
JHDM1D-AS1	LIMA1	-0.930626738	0.00705204
RP11-20I23.6	LIMA1	-0.931237161	0.006929926
AC005786.7	LIMA1	-0.954421355	0.003068777
AC005944.2	LIMA1	-0.955052515	0.002985011
CTB-191K22.5	LIMA1	-0.980371522	0.000574135
RP11-20I23.8	LIMA1	-0.932212782	0.006736916
CDC37L1-AS1	LIMA1	-0.945485832	0.004376689
LL21NC02-21A1.1	LIMA1	-0.961540194	0.002190291
RP11-66D17.5	PLA2G4B	0.879516041	0.020900081
RP5-1142A6.10	LIMA1	-0.930604397	0.007056529
RP11-556I13.1	LIMA1	-0.930478289	0.007081894
CTA-315H11.2	LIME1	-0.956532796	0.002793033
RP11-66D17.5	LIME1	0.93871116	0.005519372
RP11-126K1.8	LIME1	0.970049472	0.001332118
RP3-438O4.4	LIME1	0.983199586	0.00042101
NUP50-AS1	LIME1	0.979109351	0.00065007
PSMD5-AS1	LIME1	0.991981071	9.62E-05
TOPORS-AS1	LIME1	0.973724768	0.001026512
AC087294.2	LIME1	0.995701349	2.77E-05
AP001062.8	LIME1	0.98702697	0.000251358
RP11-455F5.3	LIME1	0.997933087	6.40E-06
RP11-326C3.2	LIME1	0.996017791	2.38E-05
AP006621.8	LIME1	0.994065388	5.27E-05
JHDM1D-AS1	LIME1	0.997129585	1.23E-05
RP11-20I23.6	LIME1	0.997983735	6.09E-06
RP11-160E2.19	LIME1	0.963192947	0.002007206
AC005786.7	LIME1	0.989276221	0.000171883
AC005944.2	LIME1	0.973452773	0.001047778
CTB-191K22.5	LIME1	0.971962108	0.001168164
AC011558.5	PLA2G4B	0.904082077	0.013359138
CCDC144NL-AS1	MFAP3L	-0.886467711	0.018602679
RP11-20I23.8	LIME1	0.998221841	4.74E-06

CDC37L1-AS1	LIME1	0.985565436	0.000311031
RP5-1142A6.10	LIME1	0.990324724	0.000139964
RP11-556I13.1	LIME1	0.997084649	1.27E-05
AC024028.1	LIMK1	0.958548669	0.002541708
RP11-498J9.2	LIMK1	0.961269792	0.002220995
RP11-34P13.14	LIMK1	0.971017434	0.001247811
RP11-93O14.2	LIMK1	0.937264156	0.005780222
RP11-78A19.3	LIMK1	0.92328488	0.008602072
Z69720.3	LIMK1	0.964086061	0.001911555
RP11-34P13.14	LIMS1	0.933931268	0.006403419
RP11-680G24.6	LIMS1	0.956949437	0.002740133
CTA-315H11.2	LIMS2	-0.963288378	0.001996876
RP11-66D17.5	LIMS2	0.922785851	0.008712861
RP11-126K1.8	LIMS2	0.958352163	0.002565693
RP3-438O4.4	LIMS2	0.9757398	0.000875697
NUP50-AS1	LIMS2	0.969168357	0.001411231
PSMD5-AS1	LIMS2	0.991251791	0.000114462
TOPORS-AS1	LIMS2	0.969213712	0.001407104
AC087294.2	LIMS2	0.990459753	0.00013609
LL21NC02-21A1.1	MFAP3L	0.829298654	0.041221395
AP001062.8	LIMS2	0.978265342	0.000703459
RP11-455F5.3	LIMS2	0.993756696	5.83E-05
RP3-337H4.8	SLC22A16	0.865812249	0.025801413
RP11-326C3.2	LIMS2	0.999147794	1.09E-06
AP006621.8	LIMS2	0.994514672	4.51E-05
CCDC144NL-AS1	SIT1	-0.876596915	0.021902871
JHDM1D-AS1	LIMS2	0.993571842	6.18E-05
RP11-20I23.6	LIMS2	0.996549842	1.78E-05
RP11-160E2.19	LIMS2	0.974047528	0.001001556
AC005786.7	LIMS2	0.984896505	0.000340451
AC005944.2	LIMS2	0.968994787	0.001427082
CTB-191K22.5	LIMS2	0.960726689	0.002283302
RP11-20I23.8	LIMS2	0.994998894	3.75E-05
CDC37L1-AS1	LIMS2	0.97943383	0.000630102
RP5-1142A6.10	LIMS2	0.990277826	0.000141322
RP11-556I13.1	LIMS2	0.99354737	6.23E-05
CTA-315H11.2	LIN7A	-0.960532069	0.002305836
RP11-126K1.8	LIN7A	0.935155273	0.006170927
RP3-438O4.4	LIN7A	0.959876126	0.00238259
NUP50-AS1	LIN7A	0.952476966	0.003333994
PSMD5-AS1	LIN7A	0.985872528	0.000297968
TOPORS-AS1	LIN7A	0.962804096	0.002049572
AC087294.2	LIN7A	0.977733199	0.000738196
AP001062.8	LIN7A	0.960960489	0.002256375
RP11-455F5.3	LIN7A	0.982054284	0.000480183
RP11-326C3.2	LIN7A	0.998738707	2.39E-06
AP006621.8	LIN7A	0.990016663	0.000149003
JHDM1D-AS1	LIN7A	0.982503275	0.000456525
AC011558.5	SIT1	0.828583196	0.041557149
RP11-20I23.6	LIN7A	0.991166838	0.000116693
RP11-160E2.19	LIN7A	0.988028703	0.00021411
RP11-66D17.5	PMEPA1	0.902138002	0.013896845
AC005786.7	LIN7A	0.977429788	0.000758373
AC005944.2	LIN7A	0.962499726	0.002083038
CTB-191K22.5	LIN7A	0.941737094	0.004992961
RP11-20I23.8	LIN7A	0.984877214	0.000341319
CDC37L1-AS1	LIN7A	0.964885807	0.001827862
RP5-1142A6.10	LIN7A	0.990124421	0.000145809
RP11-556I13.1	LIN7A	0.982506416	0.000456361
CTD-2541M15.3	LIN9	0.944191475	0.004584977
AC011558.5	LIN9	-0.942797801	0.004814552
AC024028.1	LIPC	0.964355341	0.001883169
RP11-498J9.2	LIPC	1	0

RP11-34P13.14	LIPC	0.978552256	0.000685076
RP11-93O14.2	LIPC	0.982998398	0.000431125
RP11-485G7.6	LIPC	0.965304842	0.001784749
RP11-78A19.3	LIPC	0.983256999	0.000418145
Z69720.3	LIPC	0.986539728	0.000270549
RP5-1033H22.2	LIPH	0.996549135	1.78E-05
RP11-21J18.1	LIPH	0.942751042	0.00482235
RP11-298J23.8	LIPH	0.988825741	0.000186598
RP11-165D6.1	LIPH	0.995443347	3.11E-05
AC011558.5	PMEPA1	0.849581905	0.032236755
CCDC144NL-AS1	TNNT3	-0.901558016	0.014059244
CTA-315H11.2	LLPH	0.95756624	0.002662732
RP11-66D17.5	TNNT3	0.91312128	0.010993991
RP11-126K1.8	LLPH	-0.977542186	0.000750867
RP3-438O4.4	LLPH	-0.935314566	0.006140979
NUP50-AS1	LLPH	-0.949971224	0.00369171
PSMD5-AS1	LLPH	-0.975199003	0.000915007
AC087294.2	LLPH	-0.959966041	0.002371995
AP001062.8	LLPH	-0.963221031	0.002004163
RP11-455F5.3	LLPH	-0.966964222	0.001619017
RP11-326C3.2	LLPH	-0.951239397	0.003508428
AP006621.8	LLPH	-0.974444419	0.000971287
JHDM1D-AS1	LLPH	-0.958068546	0.002600507
RP11-20I23.6	LLPH	-0.947268837	0.004097552
AC005786.7	LLPH	-0.929627702	0.00725414
AC005944.2	LLPH	-0.953638606	0.003174244
CTB-191K22.5	LLPH	-0.955056036	0.002984547
RP11-20I23.8	LLPH	-0.959585996	0.002416934
CDC37L1-AS1	LLPH	-0.939466099	0.005385621
RP5-1142A6.10	LLPH	-0.9232647	0.008606539
RP11-556I13.1	LLPH	-0.957781923	0.002635925
RP11-118G23.2	LMBR1	0.97169408	0.001190498
RP11-21J18.1	LMLN	0.931009552	0.006975337
AC011558.5	TNNT3	0.866747506	0.02545131
CCDC144NL-AS1	KLHL3	-0.894429298	0.016129458
AC011558.5	LMO2	-0.928675317	0.007449394
RP11-498J9.2	LMO4	0.925108041	0.008203181
RP11-34P13.14	LMO4	0.942792061	0.004815509
RP11-93O14.2	LMO4	0.935946747	0.006022829
RP11-680G24.6	LMO4	0.924333604	0.008371495
Z69720.3	LMO4	0.967596391	0.001557979
CTD-2139B15.2	LMO7	-0.977457616	0.000756511
AC024028.1	LONRF1	0.943716065	0.004662672
RP11-498J9.2	LONRF1	0.995367298	3.21E-05
RP11-34P13.14	LONRF1	0.981938346	0.000486389
RP11-93O14.2	LONRF1	0.987973711	0.000216078
RP11-485G7.6	LONRF1	0.963100221	0.002017269
RP11-78A19.3	LONRF1	0.981586297	0.000505475
Z69720.3	LONRF1	0.992346603	8.76E-05
AC024028.1	LONRF3	0.935552507	0.006096378
RP11-498J9.2	LONRF3	0.986292699	0.000280547
RP11-34P13.14	LONRF3	0.991705434	0.000102914
RP11-93O14.2	LONRF3	0.986305734	0.000280015
RP11-485G7.6	LONRF3	0.940940472	0.005129041
RP11-78A19.3	LONRF3	0.976963229	0.000789926
LA16c-359F1.1	LONRF3	0.919514433	0.0094562
Z69720.3	LONRF3	0.993508679	6.31E-05
AC011558.5	KLHL3	0.858832364	0.028485836
CCDC144NL-AS1	OXER1	-0.888904429	0.017827755
AC024028.1	LPCAT2	0.978686808	0.000676537
RP11-498J9.2	LPCAT2	0.971387396	0.001216309
RP11-34P13.14	LPCAT2	0.991389807	0.000110884
RP11-93O14.2	LPCAT2	0.950711431	0.003584175

RP11-473M20.11	LPCAT2	0.939689158	0.005346409
RP11-78A19.3	LPCAT2	0.946291689	0.004249411
Z69720.3	LPCAT2	0.971385203	0.001216495
CTA-315H11.2	LPIN2	-0.948334223	0.003935072
RP11-66D17.5	LPIN2	0.940263361	0.005246115
RP11-126K1.8	LPIN2	0.978539616	0.00068588
RP3-438O4.4	LPIN2	0.986567992	0.000269417
NUP50-AS1	LPIN2	0.976250621	0.000839352
PSMD5-AS1	LPIN2	0.975501076	0.000892944
TOPORS-AS1	LPIN2	0.963323771	0.001993051
AC087294.2	LPIN2	0.993455151	6.41E-05
AP001062.8	LPIN2	0.988429612	0.000200036
RP11-455F5.3	LPIN2	0.994739038	4.14E-05
RP11-326C3.2	LPIN2	0.979202121	0.00064433
AP006621.8	LPIN2	0.978765285	0.000671582
JHDM1D-AS1	LPIN2	0.99451583	4.50E-05
RP11-20I23.6	LPIN2	0.98491046	0.000339823
RP11-160E2.19	LPIN2	0.923632023	0.00852541
AC011558.5	OXER1	0.856527268	0.029399986
CCDC144NL-AS1	FCGBP	-0.900683232	0.014305909
AC005786.7	LPIN2	0.976440041	0.000826069
RP11-66D17.5	FCGBP	0.906693803	0.012652905
AC005944.2	LPIN2	0.949695899	0.003732107
CTB-191K22.5	LPIN2	0.969830476	0.00135157
RP11-20I23.8	LPIN2	0.993346645	6.63E-05
CDC37L1-AS1	LPIN2	0.986874181	0.0002573
RP5-1142A6.10	LPIN2	0.967551082	0.001562315
RP11-556I13.1	LPIN2	0.99446923	4.58E-05
CTA-315H11.2	LRCH4	-0.963870763	0.001934402
RP11-126K1.8	LRCH4	0.924394312	0.008358241
RP3-438O4.4	LRCH4	0.936291192	0.005958927
NUP50-AS1	LRCH4	0.93791898	0.005661448
PSMD5-AS1	LRCH4	0.986925596	0.000255293
TOPORS-AS1	LRCH4	0.93906635	0.005456244
AC087294.2	LRCH4	0.962449884	0.002088544
AP001062.8	LRCH4	0.945846329	0.004319524
RP11-455F5.3	LRCH4	0.969310986	0.001398272
RP11-326C3.2	LRCH4	0.99315676	7.01E-05
AP006621.8	LRCH4	0.990054583	0.000147875
JHDM1D-AS1	LRCH4	0.966996471	0.001615875
RP11-20I23.6	LRCH4	0.979487755	0.000626813
RP11-160E2.19	LRCH4	0.995690792	2.78E-05
AC011558.5	FCGBP	0.881194553	0.020333648
RP4-784A16.3	GNGT2	-0.837945306	0.037264668
RP11-77G23.2	GNGT2	-0.880028982	0.020726193
RP11-66D17.5	GNGT2	0.915323167	0.010451676
RP11-126K1.8	GNGT2	0.895171922	0.015907415
RP3-438O4.4	GNGT2	0.865412146	0.025951881
AC005786.7	LRCH4	0.961771574	0.002164185
AC005944.2	LRCH4	0.965154417	0.001800167
TOPORS-AS1	GNGT2	0.891276712	0.017088535
AC087294.2	GNGT2	0.890159891	0.017434672
AP001062.8	GNGT2	0.902206898	0.013877614
RP11-455F5.3	GNGT2	0.889916887	0.017510428
RP11-326C3.2	GNGT2	0.883190727	0.019669713
AP006621.8	GNGT2	0.906509793	0.012702056
JHDM1D-AS1	GNGT2	0.876426625	0.021962062
RP11-20I23.6	GNGT2	0.903073141	0.013636919
RP11-160E2.19	GNGT2	0.885162838	0.019024149
AC005786.7	GNGT2	0.916662548	0.010128302
CTB-191K22.5	LRCH4	0.929441843	0.007292045
RP11-20I23.8	LRCH4	0.971021791	0.001247438
RP11-20I23.8	GNGT2	0.88493367	0.019098636

CDC37L1-AS1	GNGT2	0.861633678	0.02739333
LL21NC02-21A1.1	GNGT2	0.853650226	0.030560106
CDC37L1-AS1	LRCH4	0.943170295	0.004752654
RP11-556I13.1	GNGT2	0.876087156	0.022080286
RP5-1142A6.10	LRCH4	0.980234417	0.000582156
RP11-556I13.1	LRCH4	0.966930876	0.001622269
AC011558.5	LRCH4	0.919740753	0.009403823
CTA-315H11.2	LRFN3	-0.957549273	0.002664847
RP11-66D17.5	LRFN3	0.933146116	0.006554763
RP11-126K1.8	LRFN3	0.962694611	0.002061579
RP3-438O4.4	LRFN3	0.984613586	0.000353291
NUP50-AS1	LRFN3	0.974820697	0.000943014
PSMD5-AS1	LRFN3	0.987625266	0.000228754
TOPORS-AS1	LRFN3	0.975983213	0.000858283
AC087294.2	LRFN3	0.994842806	3.98E-05
AP001062.8	LRFN3	0.98365296	0.000398654
RP11-455F5.3	LRFN3	0.996633929	1.70E-05
RP11-326C3.2	LRFN3	0.996589787	1.74E-05
AP006621.8	LRFN3	0.990717578	0.000128845
JHDM1D-AS1	LRFN3	0.997566271	8.88E-06
RP11-20I23.6	LRFN3	0.998219102	4.75E-06
RP11-160E2.19	LRFN3	0.964098352	0.001910255
AC005786.7	LRFN3	0.989204386	0.000174189
AC005944.2	LRFN3	0.966840773	0.001631072
CTB-191K22.5	LRFN3	0.966597565	0.00165495
CCDC144NL-AS1	MCF2L	-0.912094582	0.011251405
RP11-20I23.8	LRFN3	0.998226548	4.71E-06
RP11-66D17.5	MCF2L	0.856248419	0.029511497
RP11-126K1.8	MCF2L	0.909456453	0.011926057
CDC37L1-AS1	LRFN3	0.987658375	0.000227534
RP5-1142A6.10	LRFN3	0.990579967	0.000132688
RP11-556I13.1	LRFN3	0.99756765	8.87E-06
RP11-498J9.2	LRP12	0.936085196	0.005997104
RP11-34P13.14	LRP12	0.957622874	0.00265568
RP11-93O14.2	LRP12	0.969566437	0.001375209
RP11-78A19.3	LRP12	0.949439176	0.003769969
RP11-680G24.6	LRP12	0.945854254	0.004318272
LA16c-359F1.1	LRP12	0.930551663	0.00706713
Z69720.3	LRP12	0.954828155	0.003014657
RP11-498J9.2	LRRC16A	0.980198541	0.000584265
RP11-34P13.14	LRRC16A	0.967033124	0.001612308
RP11-93O14.2	LRRC16A	0.997075227	1.28E-05
RP11-485G7.6	LRRC16A	0.972914678	0.001090487
CTB-191K22.5	MCF2L	0.910710351	0.011603025
RP11-78A19.3	LRRC16A	0.991143489	0.000117309
LA16c-359F1.1	LRRC16A	0.953247149	0.003227647
Z69720.3	LRRC16A	0.973638548	0.00103323
AC011558.5	LRRCC1	-0.951394028	0.003486394
CTD-2139B15.2	LRRFIP1	-0.922899432	0.008687584
RP3-339A18.6	RHCE	-0.835655209	0.038294404
AC011558.5	LRRK1	0.955454978	0.002932194
RP11-767C1.1	RHCE	0.823695931	0.043884647
RP11-160E2.19	LRRK2	0.941038879	0.005112134
AC011558.5	LRRK2	0.981480675	0.000511272
CTA-315H11.2	LRRN3	-0.949429776	0.003771358
RP11-66D17.5	LRRN3	0.946327838	0.004243745
RP11-126K1.8	LRRN3	0.971118928	0.001239129
RP3-438O4.4	LRRN3	0.99178775	0.000100885
NUP50-AS1	LRRN3	0.981806568	0.00049349
PSMD5-AS1	LRRN3	0.984156973	0.000374514
TOPORS-AS1	LRRN3	0.979139073	0.000648228
AC087294.2	LRRN3	0.998369214	3.99E-06
AP001062.8	LRRN3	0.990085128	0.00014697

RP11-455F5.3	LRRN3	0.998805943	2.14E-06
RP11-326C3.2	LRRN3	0.99094007	0.000122752
AP006621.8	LRRN3	0.98647501	0.000273151
JHDM1D-AS1	LRRN3	0.999853224	3.23E-08
RP11-20I23.6	LRRN3	0.997438584	9.83E-06
RP11-160E2.19	LRRN3	0.94907659	0.003823763
AC005786.7	LRRN3	0.991344879	0.000112042
AC005944.2	LRRN3	0.965968803	0.001717477
CTB-191K22.5	LRRN3	0.974717156	0.000950753
RP11-20I23.8	LRRN3	0.999836642	4.00E-08
CDC37L1-AS1	LRRN3	0.993697964	5.94E-05
CCDC144NL-AS1	MAPK11	-0.909583385	0.011893161
RP5-1142A6.10	LRRN3	0.987604258	0.000229529
RP11-66D17.5	MAPK11	0.879444729	0.020924311
RP11-556I13.1	LRRN3	0.99985218	3.28E-08
CTD-2139B15.2	LSM5	0.930422278	0.007093174
CTA-315H11.2	LSP1	-0.963071057	0.002020439
RP11-126K1.8	LSP1	0.939676799	0.005348578
RP3-438O4.4	LSP1	0.959449242	0.002433206
NUP50-AS1	LSP1	0.95380161	0.003152137
PSMD5-AS1	LSP1	0.988119233	0.00021089
TOPORS-AS1	LSP1	0.96068609	0.002287994
AC087294.2	LSP1	0.978620294	0.000680751
AP001062.8	LSP1	0.962829091	0.002046836
RP11-455F5.3	LSP1	0.983435947	0.000409279
RP11-326C3.2	LSP1	0.999180647	1.01E-06
AP006621.8	LSP1	0.992242634	9.00E-05
JHDM1D-AS1	LSP1	0.983078905	0.000427063
RP11-20I23.6	LSP1	0.990882329	0.000124319
RP11-160E2.19	LSP1	0.987016186	0.000251775
AC005786.7	LSP1	0.976366592	0.000831207
AC005944.2	LSP1	0.963597432	0.001963601
CTB-191K22.5	LSP1	0.943336109	0.004725227
RP11-20I23.8	LSP1	0.98546748	0.000315257
AC011558.5	MAPK11	0.908782295	0.012101508
CCDC144NL-AS1	SP140	-0.888724707	0.01788437
CDC37L1-AS1	LSP1	0.964094296	0.001910684
RP5-1142A6.10	LSP1	0.988711268	0.000190434
RP11-556I13.1	LSP1	0.983059079	0.000428061
RP11-473M20.11	LST1	0.953912251	0.003137174
CTA-315H11.2	LTA	-0.969632171	0.001369305
RP11-126K1.8	LTA	0.94158774	0.005018337
RP3-438O4.4	LTA	0.960583634	0.002299855
NUP50-AS1	LTA	0.953110293	0.00324642
PSMD5-AS1	LTA	0.988692466	0.000191068
TOPORS-AS1	LTA	0.957531975	0.002667003
AC087294.2	LTA	0.979612962	0.00061921
AP001062.8	LTA	0.963578276	0.001965655
RP11-455F5.3	LTA	0.984700093	0.00034934
RP11-326C3.2	LTA	0.999700569	1.34E-07
AP006621.8	LTA	0.993193539	6.93E-05
JHDM1D-AS1	LTA	0.984564061	0.000355563
RP11-20I23.6	LTA	0.9905418	0.000133763
RP11-160E2.19	LTA	0.985578345	0.000310476
AC005786.7	LTA	0.974655448	0.000955379
AC005944.2	LTA	0.96199097	0.002139574
CTB-191K22.5	LTA	0.943427523	0.004710139
RP11-20I23.8	LTA	0.986661036	0.000265705
AC011558.5	SP140	0.87325177	0.023079558
CCDC144NL-AS1	TLE2	-0.888175193	0.018058008
CDC37L1-AS1	LTA	0.965921186	0.001722259
RP5-1142A6.10	LTA	0.986073279	0.00028958
RP11-556I13.1	LTA	0.984546354	0.000356377

RP11-91K8.5	LTBP1	0.947360885	0.004083386
CTA-315H11.2	LTBP2	-0.95564541	0.002907364
RP11-66D17.5	LTBP2	0.932161451	0.006747004
RP11-126K1.8	LTBP2	0.959568559	0.002419005
RP3-438O4.4	LTBP2	0.98253932	0.000454651
NUP50-AS1	LTBP2	0.974105332	0.000997119
PSMD5-AS1	LTBP2	0.98843473	0.00019986
TOPORS-AS1	LTBP2	0.976923185	0.000792664
AC087294.2	LTBP2	0.993520701	6.28E-05
AP001062.8	LTBP2	0.981888734	0.000489057
RP11-455F5.3	LTBP2	0.995340629	3.25E-05
RP11-326C3.2	LTBP2	0.99739856	1.01E-05
AP006621.8	LTBP2	0.991215344	0.000115416
JHDM1D-AS1	LTBP2	0.996158551	2.21E-05
RP11-20I23.6	LTBP2	0.998803914	2.15E-06
RP11-160E2.19	LTBP2	0.968775808	0.001447204
AC005786.7	LTBP2	0.990182442	0.000144104
AC005944.2	LTBP2	0.969480142	0.001382979
CTB-191K22.5	LTBP2	0.965669264	0.001747668
AC011558.5	TLE2	0.8389843	0.036801832
RP11-20I23.8	LTBP2	0.99722304	1.16E-05
CDC37L1-AS1	LTBP2	0.985751689	0.000303075
RP11-498J9.2	HAS1	0.914804939	0.010578116
RP11-34P13.14	HAS1	0.903583175	0.013496151
RP11-93O14.2	HAS1	0.855875235	0.029661046
RP5-1142A6.10	LTBP2	0.993180771	6.96E-05
RP11-78A19.3	HAS1	0.871553989	0.023687991
Z69720.3	HAS1	0.87652657	0.021927313
CCDC144NL-AS1	ALS2CL	-0.879074559	0.021050299
RP11-556I13.1	LTBP2	0.996160314	2.21E-05
CTA-315H11.2	LTBP3	-0.924042898	0.008435106
RP11-66D17.5	LTBP3	0.922656203	0.008741757
RP11-126K1.8	LTBP3	0.971938618	0.001170113
RP3-438O4.4	LTBP3	0.935042352	0.0061922
NUP50-AS1	LTBP3	0.963786571	0.001943373
PSMD5-AS1	LTBP3	0.986694064	0.000264394
TOPORS-AS1	LTBP3	0.929175265	0.007346581
AC087294.2	LTBP3	0.964450572	0.00187318
AP001062.8	LTBP3	0.967348254	0.001581799
RP11-455F5.3	LTBP3	0.9708075	0.001265864
RP11-326C3.2	LTBP3	0.966896141	0.00162566
AP006621.8	LTBP3	0.984628401	0.000352613
JHDM1D-AS1	LTBP3	0.959722252	0.002400774
RP11-20I23.6	LTBP3	0.964817186	0.00183497
RP11-160E2.19	LTBP3	0.941110669	0.005099817
AC005786.7	LTBP3	0.954971201	0.002995739
AC005944.2	LTBP3	0.975517966	0.000891718
CTB-191K22.5	LTBP3	0.959335306	0.002446804
RP11-20I23.8	LTBP3	0.963743607	0.001947959
CDC37L1-AS1	LTBP3	0.932870868	0.006608228
RP5-1142A6.10	LTBP3	0.960045124	0.002362696
AC011558.5	ALS2CL	0.833690161	0.039188465
RP11-556I13.1	LTBP3	0.959411391	0.002437719
AC024028.1	LTC4S	0.961576094	0.00218623
RP11-66D17.5	HERC2P3	0.91345154	0.010911802
RP11-498J9.2	LTC4S	0.999837018	3.98E-08
RP11-34P13.14	LTC4S	0.980021432	0.000594728
RP11-93O14.2	LTC4S	0.984194499	0.000372747
RP11-485G7.6	LTC4S	0.965077685	0.001808057
RP11-78A19.3	LTC4S	0.983160125	0.000422984
Z69720.3	LTC4S	0.988590431	0.000194525
AC024028.1	LTF	0.992205811	9.09E-05
RP11-498J9.2	LTF	0.989261257	0.000172362

RP11-34P13.14	LTF	0.973148796	0.001071801
RP11-93O14.2	LTF	0.953901268	0.003138658
RP11-485G7.6	LTF	0.925290225	0.008163828
RP11-473M20.11	LTF	0.962712037	0.002059666
RP11-78A19.3	LTF	0.958507474	0.002546727
Z69720.3	LTF	0.971245195	0.00122837
CTA-315H11.2	LUC7L3	-0.931431246	0.006891317
RP3-438O4.4	LUC7L3	0.961197354	0.002229256
RMRP	HERC2P3	0.860211239	0.027945547
TOPORS-AS1	LUC7L3	0.941301622	0.005067127
AC087294.2	LUC7L3	0.954894263	0.003005907
AP001062.8	LUC7L3	0.933267445	0.006531263
RP11-455F5.3	LUC7L3	0.954626904	0.003041372
CCDC144NL-AS1	EPHA4	-0.90390141	0.013408676
RP11-326C3.2	LUC7L3	0.951855271	0.003421075
RP11-66D17.5	EPHA4	0.898219124	0.015011828
AP006621.8	LUC7L3	0.925853081	0.008042827
JHDM1D-AS1	LUC7L3	0.965249347	0.001790429
RP11-20I23.6	LUC7L3	0.951299998	0.003499785
AC005786.7	LUC7L3	0.93753326	0.005731265
RP11-20I23.8	LUC7L3	0.96064286	0.002292995
CDC37L1-AS1	LUC7L3	0.964855944	0.001830954
RP5-1142A6.10	LUC7L3	0.930847709	0.007007715
RP11-556I13.1	LUC7L3	0.96548931	0.001765931
CTD-2139B15.2	LXN	0.92531918	0.008157581
RP11-498J9.2	LY6G5C	0.948871612	0.00385434
RP11-93O14.2	LY6G5C	0.939305702	0.005413904
RP11-485G7.6	LY6G5C	0.957968386	0.002612857
RP11-78A19.3	LY6G5C	0.922264242	0.0088294
Z69720.3	LY6G5C	0.953653962	0.003172158
CTA-315H11.2	LY9	-0.96765685	0.001552202
RP11-126K1.8	LY9	0.920885797	0.009140996
RP3-438O4.4	LY9	0.923010437	0.008662915
NUP50-AS1	LY9	0.92759653	0.007673615
PSMD5-AS1	LY9	0.985084729	0.000332039
TOPORS-AS1	LY9	0.92392124	0.008461795
AC011558.5	EPHA4	0.892558297	0.016695441
AC087294.2	LY9	0.953975537	0.003128631
AP001062.8	LY9	0.937547209	0.005728733
RP11-455F5.3	LY9	0.962794009	0.002050677
RP11-93O14.2	CXCL5	0.903660338	0.013474916
RP11-485G7.6	CXCL5	0.876617656	0.021895667
RP11-326C3.2	LY9	0.989329722	0.000170175
RP11-78A19.3	CXCL5	0.916053538	0.010274727
AP006621.8	LY9	0.988924322	0.000183327
AC024028.1	ARMCX2	0.912326492	0.011193008
RP11-498J9.2	ARMCX2	0.820748095	0.045317075
JHDM1D-AS1	LY9	0.958829896	0.002507575
LLNLR-284B4.1	ARMCX2	0.887625303	0.018232571
CCDC144NL-AS1	C19orf45	-0.879833868	0.020792256
RP11-20I23.6	LY9	0.970727969	0.001272737
RP11-160E2.19	LY9	0.993842888	5.67E-05
AC005786.7	LY9	0.949176026	0.003808973
AC005944.2	LY9	0.958126679	0.002593353
CTB-191K22.5	LY9	0.918913194	0.009596029
RP11-20I23.8	LY9	0.963139041	0.002013053
CDC37L1-AS1	LY9	0.929791078	0.007220899
RP5-1142A6.10	LY9	0.96979012	0.00135517
RP11-556I13.1	LY9	0.958719754	0.002520916
AC011558.5	LY9	0.919028074	0.009569235
RP11-498J9.2	LYPLA1	0.918853849	0.009609885
RP11-34P13.14	LYPLA1	0.950734652	0.003580826
RP11-93O14.2	LYPLA1	0.954146707	0.003105583

RP11-78A19.3	LYPLA1	0.93020026	0.007137973
RP11-680G24.6	LYPLA1	0.940154858	0.005264996
Z69720.3	LYPLA1	0.943201251	0.004747528
AC024028.1	LYZ	0.982145086	0.000475351
RP11-498J9.2	LYZ	0.989159701	0.000175631
RP11-34P13.14	LYZ	0.952994968	0.003262281
RP11-93O14.2	LYZ	0.952145922	0.003380226
RP11-485G7.6	LYZ	0.944710932	0.004500816
RP11-473M20.11	LYZ	0.952293824	0.003359532
AC011558.5	C19orf45	0.829299175	0.041221151
RP3-337H4.8	VWCE	0.834962448	0.038608494
RP11-91K8.5	VWCE	0.88849957	0.017955413
RP11-78A19.3	LYZ	0.95707248	0.002724605
Z69720.3	LYZ	0.961340428	0.002212954
AC024028.1	MACF1	0.987382935	0.000237781
RP11-498J9.2	MACF1	0.962115227	0.002125697
RP11-34P13.14	MACF1	0.975766749	0.00087376
RP11-93O14.2	MACF1	0.9338756	0.006414092
RP11-473M20.11	MACF1	0.959890543	0.002380889
RP11-78A19.3	MACF1	0.931152438	0.006946812
Z69720.3	MACF1	0.951293079	0.003500771
AC024028.1	MADD	0.956430009	0.002806161
RP11-498J9.2	MADD	0.977815362	0.000732778
RP11-34P13.14	MADD	0.996650652	1.68E-05
RP11-93O14.2	MADD	0.967112422	0.001604604
RP11-78A19.3	MADD	0.957655182	0.002651662
Z69720.3	MADD	0.987582618	0.00023033
CTA-315H11.2	MAF1	-0.929545759	0.00727084
RP11-66D17.5	MAF1	0.970080619	0.001329363
RP11-126K1.8	MAF1	0.984517362	0.000357712
RP3-438O4.4	MAF1	0.993740451	5.87E-05
NUP50-AS1	MAF1	0.99431608	4.84E-05
PSMD5-AS1	MAF1	0.984253628	0.00036997
TOPORS-AS1	MAF1	0.979837941	0.000605665
CCDC144NL-AS1	ZNF23	-0.870143122	0.024199337
AC087294.2	MAF1	0.999391442	5.55E-07
AP001062.8	MAF1	0.99804261	5.74E-06
RP11-455F5.3	MAF1	0.998367237	4.00E-06
RP11-326C3.2	MAF1	0.980569245	0.000562663
AP006621.8	MAF1	0.983156426	0.00042317
JHDM1D-AS1	MAF1	0.997012755	1.34E-05
RP11-20I23.6	MAF1	0.99462628	4.32E-05
RP11-160E2.19	MAF1	0.932932156	0.006596305
AC005786.7	MAF1	0.994348744	4.78E-05
AC005944.2	MAF1	0.977851043	0.000730432
CTB-191K22.5	MAF1	0.990414236	0.00013739
RP11-20I23.8	MAF1	0.997484044	9.49E-06
CDC37L1-AS1	MAF1	0.993659932	6.02E-05
RP5-1142A6.10	MAF1	0.98583401	0.000299592
RP11-556I13.1	MAF1	0.996946604	1.40E-05
CTA-315H11.2	MAFA	-0.952370917	0.00334877
PSMD5-AS1	MAFA	0.953056781	0.003253775
RP11-455F5.3	MAFA	0.918931713	0.009591708
RMRP	ZNF23	0.827589122	0.042025766
RP11-326C3.2	MAFA	0.96586015	0.001728399
AP006621.8	MAFA	0.959358251	0.002444063
LL21NC02-21A1.1	ZNF23	0.827432497	0.042099824
RP11-20I23.6	MAFA	0.935190166	0.006164361
RP11-160E2.19	MAFA	0.99477968	4.08E-05
CCDC144NL-AS1	SCML4	-0.888750849	0.01787613
AC005944.2	MAFA	0.919147451	0.00954143
RP11-20I23.8	MAFA	0.921623786	0.00897352
RP5-1142A6.10	MAFA	0.939855914	0.005317187

AC011558.5	MAFA	0.960735382	0.002282298
AC024028.1	MAFF	0.92069292	0.009185014
RP11-498J9.2	MAFF	0.987108161	0.000248228
RP11-34P13.14	MAFF	0.968965592	0.001429757
RP11-93O14.2	MAFF	0.990850198	0.000125195
RP11-485G7.6	MAFF	0.978337881	0.000698789
RP11-78A19.3	MAFF	0.992852947	7.64E-05
LA16c-359F1.1	MAFF	0.954955172	0.002997856
Z69720.3	MAFF	0.978117761	0.00071301
AC024028.1	MAGED4	0.964355341	0.001883169
RP11-498J9.2	MAGED4	1	0
RP11-34P13.14	MAGED4	0.978552256	0.000685076
RP11-93O14.2	MAGED4	0.982998398	0.000431125
RP11-485G7.6	MAGED4	0.965304842	0.001784749
RP11-78A19.3	MAGED4	0.983256999	0.000418145
Z69720.3	MAGED4	0.986539728	0.000270549
CTA-315H11.2	MAGEE1	-0.964426994	0.00187565
RP11-126K1.8	MAGEE1	0.950572641	0.003604219
RP3-438O4.4	MAGEE1	0.971713214	0.001188897
AC011558.5	SCML4	0.852915889	0.030859614
CCDC144NL-AS1	EIF4E3	-0.887575135	0.018248537
NUP50-AS1	MAGEE1	0.963461905	0.001978159
RP3-438O4.4	EIF4E3	0.81801868	0.046662445
NUP50-AS1	EIF4E3	0.816398248	0.047469834
PSMD5-AS1	MAGEE1	0.989398734	0.000167985
TOPORS-AS1	EIF4E3	0.833938296	0.039075035
AC087294.2	EIF4E3	0.860500869	0.027832684
AP001062.8	EIF4E3	0.829452366	0.041149427
RP11-455F5.3	EIF4E3	0.874348665	0.022690479
TOPORS-AS1	MAGEE1	0.967529655	0.001564368
AC087294.2	MAGEE1	0.987011287	0.000251964
JHDM1D-AS1	EIF4E3	0.872199369	0.023455818
RP11-20I23.6	EIF4E3	0.896079982	0.01563792
AP001062.8	MAGEE1	0.972844773	0.001096097
AC005786.7	EIF4E3	0.861981543	0.027259079
AC005944.2	EIF4E3	0.879722267	0.020830087
RP11-20I23.8	EIF4E3	0.878774099	0.021152828
CDC37L1-AS1	EIF4E3	0.831375497	0.040253981
RP5-1142A6.10	EIF4E3	0.903887089	0.013412607
RP11-556I13.1	EIF4E3	0.872160228	0.023469868
RP11-455F5.3	MAGEE1	0.990618671	0.000131601
RP11-326C3.2	MAGEE1	0.999803814	5.77E-08
RP11-498J9.2	UBTD2	0.912561098	0.011134083
RP11-34P13.14	UBTD2	0.88844767	0.017971809
RP11-93O14.2	UBTD2	0.85047459	0.031865239
RP11-485G7.6	UBTD2	0.817191122	0.047073976
AP006621.8	MAGEE1	0.993221826	6.88E-05
RP11-78A19.3	UBTD2	0.867562917	0.025147926
Z69720.3	UBTD2	0.866711553	0.025464727
RP11-473M20.11	SEMA6A	0.867223616	0.025273957
CTD-2531D15.5	SEMA6A	-0.817125085	0.047106887
RP11-160E2.19	SEMA6A	0.867956427	0.025002135
JHDM1D-AS1	MAGEE1	0.990990174	0.0001214
AC024028.1	EDN1	0.905736387	0.012909647
RP11-20I23.6	MAGEE1	0.995363046	3.22E-05
AC011558.5	EDN1	0.874321001	0.022700253
CCDC144NL-AS1	MX1	-0.87245482	0.023364221
RP11-160E2.19	MAGEE1	0.978891047	0.000663679
AC005786.7	MAGEE1	0.982695121	0.000446597
AC005944.2	MAGEE1	0.965845541	0.00172987
CTB-191K22.5	MAGEE1	0.954204097	0.003097874
RP11-20I23.8	MAGEE1	0.992576932	8.24E-05
CDC37L1-AS1	MAGEE1	0.976061919	0.000852689

RP5-1142A6.10	MAGEE1	0.990287303	0.000141047
RP11-556I13.1	MAGEE1	0.990983195	0.000121588
CTA-315H11.2	MAL	-0.955359198	0.002944722
RP11-66D17.5	MAL	0.94193781	0.004958957
RP11-126K1.8	MAL	0.970416925	0.001299793
RP3-438O4.4	MAL	0.985330481	0.000321214
NUP50-AS1	MAL	0.980506374	0.000566298
PSMD5-AS1	MAL	0.991254397	0.000114394
TOPORS-AS1	MAL	0.975012306	0.000928776
AC087294.2	MAL	0.996574684	1.76E-05
AP001062.8	MAL	0.98806624	0.000212772
RP11-455F5.3	MAL	0.998331986	4.17E-06
RP11-326C3.2	MAL	0.995223429	3.42E-05
AP006621.8	MAL	0.993074135	7.18E-05
JHDM1D-AS1	MAL	0.997903723	6.59E-06
RP11-20I23.6	MAL	0.998482328	3.45E-06
AC011558.5	MX1	0.885701532	0.018849604
CCDC144NL-AS1	BCAM	-0.877686155	0.021526066
RP11-160E2.19	MAL	0.961445214	0.002201052
AC005786.7	MAL	0.990596252	0.00013223
AC005944.2	MAL	0.974129842	0.000995241
CTB-191K22.5	MAL	0.973880503	0.001014432
RP11-20I23.8	MAL	0.998891393	1.84E-06
CDC37L1-AS1	MAL	0.987923374	0.000217887
RP5-1142A6.10	MAL	0.990709294	0.000129075
RP11-556I13.1	MAL	0.997867921	6.81E-06
CTA-315H11.2	MAN1A2	-0.968751553	0.001449442
RP11-126K1.8	MAN1A2	0.921804459	0.008932749
RP3-438O4.4	MAN1A2	0.967809933	0.001537623
NUP50-AS1	MAN1A2	0.93200231	0.006778329
PSMD5-AS1	MAN1A2	0.951759804	0.003434544
TOPORS-AS1	MAN1A2	0.940793068	0.005154417
AC087294.2	MAN1A2	0.970118425	0.001326022
AP001062.8	MAN1A2	0.949858041	0.00370829
RP11-455F5.3	MAN1A2	0.971738075	0.001186818
RP11-326C3.2	MAN1A2	0.974869813	0.000939354
AP006621.8	MAN1A2	0.959305662	0.002450348
JHDM1D-AS1	MAN1A2	0.979259387	0.000640799
RP11-20I23.6	MAN1A2	0.971307188	0.001223105
RP11-160E2.19	MAN1A2	0.937458872	0.005744778
AC011558.5	BCAM	0.830313783	0.040747196
AC005786.7	MAN1A2	0.95499809	0.00299219
CTB-191K22.5	MAN1A2	0.925394922	0.008141254
RP11-66D17.5	CAPN3	0.826683981	0.042454592
RP11-126K1.8	CAPN3	0.887812803	0.018172959
RP3-438O4.4	CAPN3	0.906574666	0.012684718
NUP50-AS1	CAPN3	0.898231093	0.01500836
RP11-20I23.8	MAN1A2	0.977398483	0.00076047
TOPORS-AS1	CAPN3	0.906773484	0.012631651
CDC37L1-AS1	MAN1A2	0.977169133	0.000775922
AP001062.8	CAPN3	0.91225099	0.011212004
RP5-1142A6.10	MAN1A2	0.953420471	0.003203948
RP11-556I13.1	MAN1A2	0.979419515	0.000630976
CTA-315H11.2	MAN1C1	-0.967165318	0.001599475
RP11-126K1.8	MAN1C1	0.930535995	0.007070281
RP3-438O4.4	MAN1C1	0.949668345	0.003736161
NUP50-AS1	MAN1C1	0.943986991	0.004618317
PSMD5-AS1	MAN1C1	0.986207239	0.000284048
TOPORS-AS1	MAN1C1	0.951064829	0.003533385
CTB-191K22.5	CAPN3	0.887978682	0.018120298
AC087294.2	MAN1C1	0.971465502	0.00120971
CDC37L1-AS1	CAPN3	0.917059943	0.010033305
AP001062.8	MAN1C1	0.95391291	0.003137085

RP11-455F5.3	MAN1C1	0.977374312	0.000762091
RP11-326C3.2	MAN1C1	0.997881316	6.73E-06
AP006621.8	MAN1C1	0.990830808	0.000125726
JHDM1D-AS1	MAN1C1	0.976858421	0.000797102
RP11-20I23.6	MAN1C1	0.985890541	0.000297211
RP11-160E2.19	MAN1C1	0.99153794	0.000107107
AC005786.7	MAN1C1	0.968756892	0.001448949
AC005944.2	MAN1C1	0.959515177	0.002425354
CTB-191K22.5	MAN1C1	0.933559134	0.006474935
RP11-20I23.8	MAN1C1	0.979638457	0.000617668
CDC37L1-AS1	MAN1C1	0.955526511	0.002922855
RP5-1142A6.10	MAN1C1	0.984068172	0.000378713
RP11-556I13.1	MAN1C1	0.976836178	0.00079863
AC024028.1	MAP1A	0.929362369	0.007308283
RP11-498J9.2	MAP1A	0.988293799	0.000204751
RP11-34P13.14	MAP1A	0.987211161	0.000244286
RP11-93O14.2	MAP1A	0.990577527	0.000132756
RP11-485G7.6	MAP1A	0.954310418	0.003083617
RP11-78A19.3	MAP1A	0.982626846	0.000450118
LA16c-359F1.1	MAP1A	0.931005682	0.00697611
Z69720.3	MAP1A	0.992759769	7.84E-05
CTA-315H11.2	MAP2K3	-0.936610005	0.005900077
RP11-66D17.5	MAP2K3	0.964330438	0.001885785
CCDC144NL-AS1	POU2AF1	-0.905067859	0.013090398
RP11-126K1.8	MAP2K3	0.985793486	0.000301304
PSMD5-AS1	POU2AF1	0.911317103	0.011448254
TOPORS-AS1	POU2AF1	0.826715347	0.042439698
AC087294.2	POU2AF1	0.853189122	0.030748011
AP001062.8	POU2AF1	0.822189481	0.044613991
RP11-455F5.3	POU2AF1	0.868179561	0.024919645
RP3-438O4.4	MAP2K3	0.992786248	7.79E-05
NUP50-AS1	MAP2K3	0.991832722	9.98E-05
JHDM1D-AS1	POU2AF1	0.865130775	0.026057946
RP11-20I23.6	POU2AF1	0.887969681	0.018123154
PSMD5-AS1	MAP2K3	0.985019774	0.00033493
AC005786.7	POU2AF1	0.851846204	0.031298366
AC005944.2	POU2AF1	0.866275095	0.025627867
RP11-20I23.8	POU2AF1	0.871446362	0.023726816
CDC37L1-AS1	POU2AF1	0.819774549	0.045794849
RP5-1142A6.10	POU2AF1	0.894849875	0.016003524
RP11-556I13.1	POU2AF1	0.865068382	0.026081493
TOPORS-AS1	MAP2K3	0.976443293	0.000825842
AC087294.2	MAP2K3	0.999567602	2.80E-07
CTD-2531D15.5	IL1R1	-0.816550707	0.047393596
RP11-156P1.3	IL1R1	-0.848179165	0.032824647
CTA-315H11.2	IL1R1	-0.914666323	0.010612062
RP11-66D17.5	IL1R1	0.847030424	0.033309816
AP001062.8	MAP2K3	0.997614532	8.53E-06
RP3-438O4.4	IL1R1	0.884160438	0.019350992
NUP50-AS1	IL1R1	0.904889684	0.013138776
RP11-455F5.3	MAP2K3	0.999350015	6.34E-07
TOPORS-AS1	IL1R1	0.865694003	0.025845839
RP11-326C3.2	MAP2K3	0.98226121	0.000469206
AP006621.8	MAP2K3	0.984880983	0.000341149
JHDM1D-AS1	MAP2K3	0.997883171	6.72E-06
RP11-20I23.6	MAP2K3	0.993868103	5.63E-05
RP11-160E2.19	MAP2K3	0.93310188	0.006563341
AC005786.7	MAP2K3	0.991284697	0.000113604
RP11-20I23.6	IL1R1	0.912598235	0.011124769
RP11-160E2.19	IL1R1	0.891337768	0.017069707
AC005786.7	IL1R1	0.890613099	0.017293807
AC005944.2	IL1R1	0.903985133	0.013385708
CTB-191K22.5	IL1R1	0.897093909	0.015339625

RMRP	IL1R1	0.837224756	0.037587242
AC005944.2	MAP2K3	0.973872455	0.001015055
CDC37L1-AS1	IL1R1	0.880799466	0.020466305
RP5-1142A6.10	IL1R1	0.895611722	0.015776614
CTB-191K22.5	MAP2K3	0.987462348	0.000234804
CCDC144NL-AS1	DYSF	-0.835319739	0.038446352
RP11-20I23.8	MAP2K3	0.998077305	5.54E-06
CDC37L1-AS1	MAP2K3	0.992761222	7.84E-05
RP5-1142A6.10	MAP2K3	0.982955311	0.000433306
RP11-556I13.1	MAP2K3	0.997811548	7.18E-06
CTA-315H11.2	MAP2K7	-0.935415911	0.006121963
RP11-66D17.5	MAP2K7	0.963036284	0.002024222
RP11-126K1.8	MAP2K7	0.982909476	0.000435633
RP3-438O4.4	MAP2K7	0.99382979	5.70E-05
NUP50-AS1	MAP2K7	0.991299047	0.000113231
PSMD5-AS1	MAP2K7	0.984218499	0.000371618
TOPORS-AS1	MAP2K7	0.980042897	0.000593455
AC087294.2	MAP2K7	0.999908108	1.27E-08
AP001062.8	MAP2K7	0.996916167	1.43E-05
RP11-455F5.3	MAP2K7	0.999460674	4.36E-07
RP11-326C3.2	MAP2K7	0.983738488	0.000394505
AP006621.8	MAP2K7	0.984424497	0.000362005
JHDM1D-AS1	MAP2K7	0.998589621	2.98E-06
RP11-20I23.6	MAP2K7	0.995356088	3.23E-05
RP11-160E2.19	MAP2K7	0.935667284	0.006074921
AC005786.7	MAP2K7	0.993110229	7.10E-05
LL21NC02-21A1.1	DYSF	0.829262832	0.041238176
AC005944.2	MAP2K7	0.972710466	0.001106916
CTB-191K22.5	MAP2K7	0.98593153	0.000295491
AC011558.5	DYSF	0.827040066	0.042285648
CCDC144NL-AS1	CSPP1	-0.859139681	0.028364995
RP11-20I23.8	MAP2K7	0.998737429	2.39E-06
CDC37L1-AS1	MAP2K7	0.993704421	5.93E-05
RP5-1142A6.10	MAP2K7	0.985514997	0.000313203
RP11-556I13.1	MAP2K7	0.998535774	3.21E-06
RP11-326C3.2	MAP4K1	0.921653933	0.008966711
RP11-160E2.19	MAP4K1	0.975088455	0.000923148
AC011558.5	MAP4K1	0.986623952	0.000267181
AC024028.1	MAP7D2	0.953611322	0.003177952
RP11-498J9.2	MAP7D2	0.995663649	2.82E-05
RP11-34P13.14	MAP7D2	0.988359076	0.000202478
RP11-93O14.2	MAP7D2	0.986249714	0.000282306
RP11-485G7.6	MAP7D2	0.952800639	0.003289095
RP11-78A19.3	MAP7D2	0.980323987	0.000576909
Z69720.3	MAP7D2	0.993443842	6.43E-05
RP11-160E2.19	CSPP1	0.909352857	0.011952937
CTA-315H11.2	MAPK1	-0.970925661	0.001255687
RP11-126K1.8	MAPK1	0.955174199	0.002968993
RP3-438O4.4	MAPK1	0.976879783	0.000795637
RMRP	CSPP1	0.829335106	0.041204323
NUP50-AS1	MAPK1	0.956452262	0.002803316
PSMD5-AS1	MAPK1	0.974732777	0.000949583
TOPORS-AS1	MAPK1	0.955627174	0.002909738
AC087294.2	MAPK1	0.986352691	0.000278103
AP001062.8	MAPK1	0.972606136	0.001115357
RP11-498J9.2	TGFA	0.821178036	0.045106821
RP11-455F5.3	MAPK1	0.989575998	0.000162423
LLNLR-284B4.1	TGFA	0.818378103	0.046484233
AC011558.5	TGFA	0.836445127	0.037937732
RP11-326C3.2	MAPK1	0.988749729	0.000189141
RP11-498J9.2	MPZL2	0.852932499	0.030852824
RP11-34P13.14	MPZL2	0.837440103	0.037490699
AP006621.8	MAPK1	0.981092862	0.00053284

JHDM1D-AS1	MAPK1	0.991948678	9.70E-05
RP11-20I23.6	MAPK1	0.984866333	0.000341809
RP11-160E2.19	MAPK1	0.947079666	0.004126739
AC005786.7	MAPK1	0.969375836	0.001392399
RP11-485G7.6	HRH4	0.908391546	0.012203769
AC005944.2	MAPK1	0.939068172	0.005455921
CTB-191K22.5	MAPK1	0.947920015	0.003997858
LA16c-359F1.1	HRH4	0.821669881	0.044866853
RP11-20I23.8	MAPK1	0.990947757	0.000122544
AC024028.1	LILRB1	0.834266911	0.038925052
RP11-473M20.11	LILRB1	0.891071851	0.017151778
LLNLR-284B4.1	LILRB1	0.891073682	0.017151212
CTD-2541M15.3	LILRB1	-0.87602132	0.022103249
CCDC144NL-AS1	IGF2	-0.875777989	0.02218822
CDC37L1-AS1	MAPK1	0.981139065	0.000530248
RP5-1142A6.10	MAPK1	0.968235674	0.001497434
RP11-556I13.1	MAPK1	0.9919755	9.63E-05
CTA-315H11.2	MAPK11	-0.97161381	0.001197227
RP11-126K1.8	MAPK11	0.927047567	0.007788958
RP3-438O4.4	MAPK11	0.947464734	0.004067434
NUP50-AS1	MAPK11	0.939257231	0.005422465
PSMD5-AS1	MAPK11	0.984298133	0.000367887
TOPORS-AS1	MAPK11	0.946973252	0.004143203
AC087294.2	MAPK11	0.969423665	0.001388075
AP001062.8	MAPK11	0.950634785	0.003595237
RP11-455F5.3	MAPK11	0.975737543	0.000875859
RP11-326C3.2	MAPK11	0.997592372	8.69E-06
AP006621.8	MAPK11	0.989663465	0.000159714
JHDM1D-AS1	MAPK11	0.975690255	0.000879262
RP11-20I23.6	MAPK11	0.983843317	0.000389449
RP11-160E2.19	MAPK11	0.991420847	0.000110087
AC005786.7	MAPK11	0.965037281	0.001812218
AC005944.2	MAPK11	0.954601694	0.003044726
CTB-191K22.5	MAPK11	0.928716113	0.007440978
RP11-20I23.8	MAPK11	0.978259229	0.000703854
CDC37L1-AS1	MAPK11	0.953994079	0.00312613
AC011558.5	IGF2	0.825355142	0.043087834
CCDC144NL-AS1	TTC39A	-0.902038614	0.01392461
RP5-1142A6.10	MAPK11	0.980738614	0.000552929
RP11-66D17.5	TTC39A	0.90915517	0.012004313
RP11-556I13.1	MAPK11	0.975678918	0.000880079
AC024028.1	MAPK12	0.919358443	0.009492383
RP11-498J9.2	MAPK12	0.977750325	0.000737065
RP11-34P13.14	MAPK12	0.937867446	0.005670751
RP11-93O14.2	MAPK12	0.963027011	0.002025232
RP11-485G7.6	MAPK12	0.9631715	0.002009532
RP11-78A19.3	MAPK12	0.952782274	0.003291634
Z69720.3	MAPK12	0.963687557	0.00195395
AC024028.1	MAPK3	0.953916335	0.003136622
RP11-498J9.2	MAPK3	0.940141793	0.005267271
RP11-473M20.11	MAPK3	0.943260489	0.004737725
RP11-498J9.2	MAPK6	0.961620533	0.002181209
RP11-34P13.14	MAPK6	0.973495832	0.001044397
RP11-93O14.2	MAPK6	0.989331827	0.000170108
RP11-485G7.6	MAPK6	0.940220033	0.005253651
RP11-78A19.3	MAPK6	0.979986935	0.000596776
RP11-680G24.6	MAPK6	0.956683777	0.002773806
LA16c-359F1.1	MAPK6	0.966414702	0.001673017
Z69720.3	MAPK6	0.969928937	0.001342807
AC024028.1	MARCH1	0.96596604	0.001717755
AC011558.5	TTC39A	0.881714088	0.020159833
CCDC144NL-AS1	DGAT2	-0.877399721	0.021624851
RP11-498J9.2	MARCH1	0.994190377	5.05E-05

RP11-34P13.14	MARCH1	0.985003847	0.000335641
RP11-93O14.2	MARCH1	0.980970899	0.000539715
RP11-485G7.6	MARCH1	0.94235883	0.004888
RP11-78A19.3	MARCH1	0.975407353	0.000899761
Z69720.3	MARCH1	0.984429066	0.000361793
CTA-315H11.2	MARCH8	-0.944290796	0.004568826
RP11-66D17.5	MARCH8	0.949259706	0.003796549
RP11-126K1.8	MARCH8	0.973808945	0.001019974
RP3-438O4.4	MARCH8	0.99442921	4.65E-05
NUP50-AS1	MARCH8	0.982134535	0.000475911
PSMD5-AS1	MARCH8	0.978104626	0.000713863
TOPORS-AS1	MARCH8	0.978011093	0.000719952
AC087294.2	MARCH8	0.998274276	4.46E-06
AP001062.8	MARCH8	0.991290324	0.000113457
RP11-455F5.3	MARCH8	0.998003646	5.97E-06
RP11-326C3.2	MARCH8	0.985064537	0.000332936
AP006621.8	MARCH8	0.980632941	0.000558992
JHDM1D-AS1	MARCH8	0.999485847	3.96E-07
RP11-20I23.6	MARCH8	0.993851617	5.66E-05
RP11-160E2.19	MARCH8	0.935334426	0.006137251
AC005786.7	MARCH8	0.988730639	0.000189782
AC011558.5	DGAT2	0.838074529	0.037206956
AC005944.2	MARCH8	0.95869234	0.002524242
CTB-191K22.5	MARCH8	0.975231545	0.000912617
RP11-20I23.8	MARCH8	0.99868942	2.58E-06
CDC37L1-AS1	MARCH8	0.995532414	2.99E-05
CCDC144NL-AS1	EPB42	-0.837203836	0.037596627
CTA-315H11.2	EPB42	-0.909513149	0.011911358
RP5-1142A6.10	MARCH8	0.981325247	0.000519863
RP11-556I13.1	MARCH8	0.999491185	3.88E-07
AC024028.1	MARCKSL1	0.953992887	0.003126291
RP11-473M20.11	MARCKSL1	0.986212982	0.000283812
RP11-770G2.2	MARCO	0.934493095	0.006296182
RP11-77G23.2	MAT2A	0.960124707	0.002353357
CTA-315H11.2	MBD5	-0.953223557	0.003230879
RP11-66D17.5	MBD5	0.927429582	0.007708603
RP11-126K1.8	MBD5	0.95430073	0.003084915
RP3-438O4.4	MBD5	0.984582626	0.000354711
NUP50-AS1	MBD5	0.959126049	0.002471876
PSMD5-AS1	MBD5	0.958376435	0.002562725
TOPORS-AS1	MBD5	0.951275208	0.003503319
RP11-160E2.19	EPB42	0.898887866	0.014818627
AC087294.2	MBD5	0.983756594	0.000393629
AP001062.8	MBD5	0.973234984	0.001064962
RP11-455F5.3	MBD5	0.983268183	0.000417588
RMRP	EPB42	0.832520498	0.039725227
RP11-326C3.2	MBD5	0.969037953	0.001423132
AP006621.8	MBD5	0.96237082	0.002097292
LL21NC02-21A1.1	EPB42	0.880123543	0.020694213
JHDM1D-AS1	MBD5	0.988058781	0.000213038
RP11-20I23.6	MBD5	0.976112748	0.000849086
CCDC144NL-AS1	TTC24	-0.863754196	0.026579819
CTA-315H11.2	TTC24	-0.882888335	0.019769611
PSMD5-AS1	TTC24	0.852837346	0.030891731
RP11-326C3.2	TTC24	0.875765229	0.022192681
AP006621.8	TTC24	0.863167041	0.026803909
RP11-20I23.6	TTC24	0.822539756	0.044443906
AC005786.7	MBD5	0.966917891	0.001623536
RP5-1142A6.10	TTC24	0.834762299	0.038699463
AC005944.2	MBD5	0.933411806	0.006503356
CTB-191K22.5	MBD5	0.956185543	0.002837505
RP11-498J9.2	ERMN	0.87317055	0.023108493
RP11-34P13.14	ERMN	0.870136157	0.024201874

RP11-20I23.8	MBD5	0.985895153	0.000297017
RP11-78A19.3	ERMN	0.818904413	0.046223847
Z69720.3	ERMN	0.836916025	0.037725852
RP11-118G23.2	TGM2	-0.908587847	0.012152344
RP11-680G24.6	TGM2	-0.836695651	0.03782494
CDC37L1-AS1	MBD5	0.990463321	0.000135989
RP11-126K1.8	TGM2	0.912996596	0.011025098
RP3-438O4.4	TGM2	0.866871775	0.025404962
NUP50-AS1	TGM2	0.912514978	0.011145655
TOPORS-AS1	TGM2	0.848243485	0.032797581
AC087294.2	TGM2	0.855853452	0.029669786
AP001062.8	TGM2	0.894494229	0.016109984
RP11-455F5.3	TGM2	0.844328626	0.034464128
JHDM1D-AS1	TGM2	0.832684497	0.039649761
RP11-20I23.6	TGM2	0.821131556	0.045129529
AC005786.7	TGM2	0.856833336	0.029277819
AC005944.2	TGM2	0.858596991	0.028578553
RP5-1142A6.10	MBD5	0.955757231	0.002892833
RP11-20I23.8	TGM2	0.832459884	0.039753136
CDC37L1-AS1	TGM2	0.849646677	0.03220973
RP11-556I13.1	MBD5	0.988138197	0.000210219
RP5-1142A6.10	TGM2	0.813282189	0.049040489
RP11-556I13.1	TGM2	0.832332196	0.039811959
CCDC144NL-AS1	TNFSF14	-0.866585618	0.025511748
CTA-315H11.2	TNFSF14	-0.901852139	0.013976775
CTD-2139B15.2	TNFSF14	-0.821883155	0.044762983
PSMD5-AS1	TNFSF14	0.851758905	0.031334303
RP11-326C3.2	TNFSF14	0.881180975	0.0203382
AP006621.8	TNFSF14	0.863618981	0.026631345
RP11-20I23.6	TNFSF14	0.827555302	0.042041752
CTA-315H11.2	MBNL3	-0.946871593	0.004158961
RP5-1142A6.10	TNFSF14	0.835411404	0.038404805
RP11-66D17.5	MBNL3	0.949000495	0.003835101
RP11-126K1.8	MBNL3	0.972307048	0.00113973
RP3-438O4.4	MBNL3	0.993510154	6.30E-05
NUP50-AS1	MBNL3	0.982709489	0.000445858
PSMD5-AS1	MBNL3	0.981944599	0.000486053
TOPORS-AS1	MBNL3	0.979390042	0.000632778
AC087294.2	MBNL3	0.99869958	2.54E-06
AP001062.8	MBNL3	0.991013627	0.000120769
RP11-455F5.3	MBNL3	0.998688743	2.58E-06
RP11-326C3.2	MBNL3	0.988582651	0.00019479
AP006621.8	MBNL3	0.984156013	0.000374559
JHDM1D-AS1	MBNL3	0.999983036	4.32E-10
RP11-20I23.6	MBNL3	0.996476532	1.86E-05
RP11-160E2.19	MBNL3	0.943789745	0.004650588
CCDC144NL-AS1	PLCD1	-0.866023246	0.02572223
AC005786.7	MBNL3	0.991150639	0.00011712
AC005944.2	MBNL3	0.964186038	0.001900992
CTB-191K22.5	MBNL3	0.975930648	0.000862028
RP11-20I23.8	MBNL3	0.999691474	1.43E-07
CDC37L1-AS1	MBNL3	0.995212524	3.43E-05
RP5-1142A6.10	MBNL3	0.98580913	0.000300642
RP11-556I13.1	MBNL3	0.999986633	2.68E-10
RP3-339A18.6	MBOAT1	0.939949905	0.00530075
CTD-2139B15.2	MBOAT7	-0.925613011	0.008094329
RP11-160E2.19	MBP	0.936628209	0.005896726
AC011558.5	MBP	0.96456114	0.001861615
CTA-315H11.2	MCF2L	-0.969432076	0.001387316
RP3-438O4.4	MCF2L	0.927335649	0.007728324
NUP50-AS1	MCF2L	0.921784374	0.008937277
PSMD5-AS1	MCF2L	0.978449845	0.00069161
TOPORS-AS1	MCF2L	0.930661081	0.007045142

AC087294.2	MCF2L	0.954157147	0.00310418
AP001062.8	MCF2L	0.933314781	0.006522106
RP11-455F5.3	MCF2L	0.962139186	0.002123026
RP11-326C3.2	MCF2L	0.991863311	9.90E-05
AP006621.8	MCF2L	0.984180539	0.000373404
JHDM1D-AS1	MCF2L	0.961247397	0.002223548
AC011558.5	PLCD1	0.841067517	0.035882021
CCDC144NL-AS1	PRKCA	-0.823189606	0.044129157
CTA-315H11.2	PRKCA	-0.881736958	0.020152199
RP11-20I23.6	MCF2L	0.972826471	0.001097569
RP11-91K8.5	PRKCA	-0.877889955	0.021455912
RP11-326C3.2	PRKCA	0.835981271	0.038146988
RP11-160E2.19	PRKCA	0.884345141	0.019290567
AC011558.5	PRKCA	0.912420779	0.011169308
CCDC144NL-AS1	SUSD4	-0.885995772	0.018754591
RP11-160E2.19	MCF2L	0.996410985	1.93E-05
RP11-66D17.5	SUSD4	0.8957723	0.015728986
AC005786.7	MCF2L	0.95095451	0.003549202
AC005944.2	MCF2L	0.947172486	0.004112405
RP11-20I23.8	MCF2L	0.964745204	0.001842442
CDC37L1-AS1	MCF2L	0.934940311	0.006211454
RP5-1142A6.10	MCF2L	0.972129499	0.001154323
RP11-556I13.1	MCF2L	0.961219655	0.002226712
AC011558.5	MCF2L	0.928570423	0.007471053
AC024028.1	MCL1	0.997648645	8.29E-06
RP11-498J9.2	MCL1	0.972437185	0.001129093
RP11-34P13.14	MCL1	0.972143063	0.001153205
RP11-93O14.2	MCL1	0.938317886	0.005589684
RP11-473M20.11	MCL1	0.976937188	0.000791706
RP11-78A19.3	MCL1	0.943586028	0.004684035
Z69720.3	MCL1	0.952807307	0.003288173
CTD-2541M15.3	MCM10	0.935801885	0.006049804
AC011558.5	MCM10	-0.924548263	0.008324675
CTD-2139B15.2	MCM2	0.957731053	0.002642236
AC011558.5	MCM3	-0.924891786	0.008250014
RP3-339A18.6	MCM3AP	0.93390523	0.00640841
CTD-2541M15.3	MCM4	0.983651373	0.000398732
AC011558.5	SUSD4	0.880795476	0.020467646
CCDC144NL-AS1	CD28	-0.908395354	0.012202771
CTD-2139B15.2	MCM5	0.961455356	0.002199902
RP11-66D17.5	CD28	0.874068952	0.022789396
AC011558.5	MCM6	-0.940106106	0.00527349
CTA-315H11.2	MCOLN1	-0.935013455	0.006197649
RP11-66D17.5	MCOLN1	0.962923037	0.002036567
RP11-126K1.8	MCOLN1	0.98042597	0.000570964
RP3-438O4.4	MCOLN1	0.992626355	8.14E-05
NUP50-AS1	MCOLN1	0.991577324	0.000106113
PSMD5-AS1	MCOLN1	0.986554125	0.000269972
TOPORS-AS1	MCOLN1	0.982061005	0.000479825
AC087294.2	MCOLN1	0.999625573	2.10E-07
AP001062.8	MCOLN1	0.996042546	2.35E-05
RP11-455F5.3	MCOLN1	0.999239003	8.68E-07
RP11-326C3.2	MCOLN1	0.986046131	0.000290707
AP006621.8	MCOLN1	0.986401421	0.000276125
JHDM1D-AS1	MCOLN1	0.998256814	4.56E-06
RP11-20I23.6	MCOLN1	0.997312623	1.08E-05
RP11-160E2.19	MCOLN1	0.94257384	0.004851957
AC005786.7	MCOLN1	0.995404027	3.16E-05
AC005944.2	MCOLN1	0.977127078	0.000778773
CTB-191K22.5	MCOLN1	0.986059402	0.000290156
RP11-20I23.8	MCOLN1	0.998880855	1.88E-06
AC011558.5	CD28	0.916940184	0.010061887
CCDC144NL-AS1	FPR2	-0.886862477	0.018476063

CDC37L1-AS1	MCOLN1	0.992817384	7.72E-05
RP11-66D17.5	FPR2	0.864695399	0.026222469
RP11-126K1.8	FPR2	0.908560206	0.012159579
RP5-1142A6.10	MCOLN1	0.989721191	0.000157938
RP11-556I13.1	MCOLN1	0.998203817	4.84E-06
AC024028.1	MCTP1	0.997540042	9.07E-06
RP11-498J9.2	MCTP1	0.946331282	0.004243205
RP11-34P13.14	MCTP1	0.94627816	0.004251533
RP11-473M20.11	MCTP1	0.990777229	0.000127197
Z69720.3	MCTP1	0.924752143	0.008280324
AC024028.1	MDK	0.962583183	0.002073835
RP11-473M20.11	MDK	0.991896847	9.82E-05
RP11-498J9.2	MDM2	0.954949675	0.002998582
RP11-34P13.14	MDM2	0.972934469	0.001088901
RP11-93O14.2	MDM2	0.987841931	0.000220829
RP11-485G7.6	MDM2	0.929574405	0.007264999
RP11-78A19.3	MDM2	0.981191979	0.000527286
CTB-191K22.5	FPR2	0.915006427	0.010528868
RP11-680G24.6	MDM2	0.964645456	0.00185282
LA16c-359F1.1	MDM2	0.973196954	0.001067977
Z69720.3	MDM2	0.959853407	0.00238527
CTA-315H11.2	MDS2	-0.948548321	0.00390281
RP11-66D17.5	MDS2	0.947377139	0.004080888
RP11-156P1.3	PDZK1IP1	-0.837572951	0.0374312
CTA-315H11.2	PDZK1IP1	-0.870417919	0.024099334
RP11-126K1.8	MDS2	0.9714814	0.001208369
RP3-438O4.4	MDS2	0.992282449	8.91E-05
NUP50-AS1	MDS2	0.982277343	0.000468356
PSMD5-AS1	MDS2	0.983769788	0.000392992
TOPORS-AS1	MDS2	0.979437554	0.000629874
TOPORS-AS1	PDZK1IP1	0.907281005	0.012496674
AC087294.2	MDS2	0.99852696	3.25E-06
AP001062.8	MDS2	0.990437257	0.000136732
RP11-455F5.3	MDS2	0.998827112	2.06E-06
RP11-326C3.2	PDZK1IP1	0.912216637	0.011220652
RP11-326C3.2	MDS2	0.990409903	0.000137514
AP006621.8	MDS2	0.985999459	0.000292651
JHDM1D-AS1	MDS2	0.999912858	1.14E-08
RP11-160E2.19	PDZK1IP1	0.843921658	0.034639604
RP11-20I23.6	MDS2	0.997352603	1.05E-05
RP11-160E2.19	MDS2	0.947983902	0.003988142
AC005786.7	MDS2	0.991557076	0.000106624
RMRP	PDZK1IP1	0.834176132	0.038966457
AC005944.2	MDS2	0.965963313	0.001718028
CTB-191K22.5	MDS2	0.975293641	0.000908066
LL21NC02-21A1.1	PDZK1IP1	0.915194183	0.010483077
RP5-1142A6.10	PDZK1IP1	0.915940336	0.010302057
RP11-20I23.8	MDS2	0.999856991	3.07E-08
CCDC144NL-AS1	CRTAM	-0.912776098	0.011080214
CDC37L1-AS1	MDS2	0.994135519	5.15E-05
RP11-66D17.5	CRTAM	0.829752543	0.041009052
RP11-126K1.8	CRTAM	0.888789022	0.0178641
RP3-438O4.4	CRTAM	0.90458985	0.013220381
NUP50-AS1	CRTAM	0.900956911	0.014228517
RP5-1142A6.10	MDS2	0.987453046	0.000235151
TOPORS-AS1	CRTAM	0.91108858	0.011506428
RP11-556I13.1	MDS2	0.999912551	1.15E-08
AP001062.8	CRTAM	0.912919862	0.011044263
CTD-2531D15.5	ME3	0.938408701	0.005573409
AC024028.1	MED12L	0.959745164	0.002398062
RP11-498J9.2	MED12L	0.999028869	1.41E-06
RP11-34P13.14	MED12L	0.98279238	0.000441606
RP11-93O14.2	MED12L	0.989532947	0.000163765

RP11-485G7.6	MED12L	0.964862529	0.001830272
RP11-78A19.3	MED12L	0.989618729	0.000161097
Z69720.3	MED12L	0.985721873	0.000304342
CTB-191K22.5	CRTAM	0.889398636	0.017672518
AC024028.1	MEG3	0.938351653	0.00558363
CDC37L1-AS1	CRTAM	0.913361993	0.010934058
RP11-498J9.2	MEG3	0.938168439	0.005616517
RP11-34P13.14	MEG3	0.92218528	0.008847107
RP11-93O14.2	MEG3	0.93612367	0.005989965
CCDC144NL-AS1	OR2W3	-0.863618288	0.026631609
RP11-473M20.11	MEG3	0.920552923	0.009217028
RP11-78A19.3	MEG3	0.958110604	0.00259533
CTA-315H11.2	MEGF6	-0.970095297	0.001328065
RP11-126K1.8	MEGF6	0.934615393	0.006272956
RP3-438O4.4	MEGF6	0.953155217	0.003240252
NUP50-AS1	MEGF6	0.94651539	0.004214406
PSMD5-AS1	MEGF6	0.987319725	0.000240165
TOPORS-AS1	MEGF6	0.951945322	0.003408393
AC087294.2	MEGF6	0.974227279	0.00098779
AP001062.8	MEGF6	0.957080866	0.002723549
RP11-455F5.3	MEGF6	0.980025743	0.000594472
RP11-326C3.2	MEGF6	0.998717081	2.47E-06
AP006621.8	MEGF6	0.992038982	9.48E-05
JHDM1D-AS1	MEGF6	0.979630242	0.000618165
RP11-20I23.6	MEGF6	0.987192576	0.000244995
RP11-160E2.19	MEGF6	0.989475207	0.000165574
AC005786.7	MEGF6	0.969932338	0.001342505
AC005944.2	MEGF6	0.959822905	0.002388871
CTB-191K22.5	MEGF6	0.936512348	0.005918074
RP11-20I23.8	MEGF6	0.982127314	0.000476295
LL21NC02-21A1.1	OR2W3	0.823933615	0.043770084
CDC37L1-AS1	MEGF6	0.959031455	0.002483251
RP5-1142A6.10	MEGF6	0.983859776	0.000388658
RP11-556I13.1	MEGF6	0.979608422	0.000619485
AC024028.1	MEI1	0.985219113	0.000326097
RP11-473M20.11	MEI1	0.998162632	5.06E-06
AC024028.1	MEIS1	0.938944715	0.005477822
RP11-498J9.2	MEIS1	0.995874944	2.55E-05
RP11-34P13.14	MEIS1	0.970402347	0.001301068
RP11-93O14.2	MEIS1	0.992191652	9.12E-05
RP11-680G24.6	COL5A1	0.811580774	0.049908096
LA16c-359F1.1	COL5A1	0.86390091	0.026523964
RP11-485G7.6	MEIS1	0.980933003	0.00054186
RP11-78A19.3	MEIS1	0.991943693	9.71E-05
LA16c-359F1.1	MEIS1	0.926922855	0.007815278
Z69720.3	MEIS1	0.980933237	0.000541846
AC024028.1	MEIS3	0.963904319	0.001930833
RP11-498J9.2	MEIS3	0.999985926	2.97E-10
RP11-34P13.14	MEIS3	0.978631837	0.000680019
RP11-93O14.2	MEIS3	0.98370684	0.000396038
RP11-485G7.6	MEIS3	0.965840645	0.001730363
RP11-78A19.3	MEIS3	0.984160008	0.000374371
Z69720.3	MEIS3	0.986189833	0.000284764
LLNLR-284B4.1	MELK	-0.926218983	0.007964639
AC011558.5	MELK	-0.950047539	0.003680551
CTA-315H11.2	MEOX1	-0.949084198	0.003822631
RP11-66D17.5	MEOX1	0.946789952	0.004171637
RP11-126K1.8	MEOX1	0.971191856	0.00123291
RP3-438O4.4	MEOX1	0.991981628	9.62E-05
NUP50-AS1	MEOX1	0.982009896	0.000482555
PSMD5-AS1	MEOX1	0.984051069	0.000379524
TOPORS-AS1	MEOX1	0.979295544	0.000638574
AC087294.2	MEOX1	0.998430256	3.69E-06

CCDC144NL-AS1	CD3G	-0.897855996	0.015117242
AP001062.8	MEOX1	0.990207733	0.000143363
RP11-66D17.5	CD3G	0.912906867	0.011047511
RP11-455F5.3	MEOX1	0.998806493	2.14E-06
RP11-326C3.2	MEOX1	0.990768098	0.000127449
AP006621.8	MEOX1	0.98631806	0.000279513
JHDM1D-AS1	MEOX1	0.999875039	2.34E-08
RP11-20I23.6	MEOX1	0.997453973	9.72E-06
RP11-160E2.19	MEOX1	0.948793723	0.003865991
AC005786.7	MEOX1	0.991495992	0.00010817
AC005944.2	MEOX1	0.96609973	0.001704363
CTB-191K22.5	MEOX1	0.974980626	0.000931123
RP11-20I23.8	MEOX1	0.999853804	3.21E-08
CDC37L1-AS1	MEOX1	0.993892602	5.58E-05
RP5-1142A6.10	MEOX1	0.987642471	0.000228119
RP11-556I13.1	MEOX1	0.999874515	2.36E-08
AC024028.1	METRNL	0.958489779	0.002548885
RP11-498J9.2	METRNL	0.997032394	1.32E-05
RP11-34P13.14	METRNL	0.963131501	0.002013872
RP11-93O14.2	METRNL	0.973044857	0.001080077
RP11-485G7.6	METRNL	0.9700284	0.001333984
RP11-78A19.3	METRNL	0.972046065	0.001161212
Z69720.3	METRNL	0.98124351	0.00052441
AC011558.5	CD3G	0.874896626	0.022497294
RP4-784A16.3	METTL8	0.981027958	0.000536493
RP11-77G23.2	METTL8	0.926555633	0.00789303
AC024028.1	MEX3B	0.974586245	0.000960582
RP11-498J9.2	MEX3B	0.997498813	9.38E-06
RP11-34P13.14	MEX3B	0.985904691	0.000296616
RP11-93O14.2	MEX3B	0.97786809	0.000729312
RP11-485G7.6	MEX3B	0.945393142	0.004391447
RP11-473M20.11	MEX3B	0.927926938	0.007604597
RP11-78A19.3	MEX3B	0.975975329	0.000858844
Z69720.3	MEX3B	0.987219792	0.000243957
AC024028.1	MFAP2	0.963812277	0.001940632
RP11-498J9.2	MFAP2	0.999979836	6.10E-10
RP11-34P13.14	MFAP2	0.977950674	0.000723899
RP11-93O14.2	MFAP2	0.982419035	0.000460918
RP11-485G7.6	MFAP2	0.966014144	0.00171293
RP11-78A19.3	MFAP2	0.982770214	0.000442741
Z69720.3	MFAP2	0.986863595	0.000257714
CTA-315H11.2	MFAP3L	-0.944170224	0.004588436
RP11-66D17.5	MFAP3L	0.950685689	0.003587888
RP11-126K1.8	MFAP3L	0.987726421	0.000225037
RP3-438O4.4	MFAP3L	0.976755518	0.000804179
CCDC144NL-AS1	PADI2	-0.897952366	0.015089232
NUP50-AS1	MFAP3L	0.98562578	0.000308442
RP11-66D17.5	PADI2	0.905890843	0.01286806
PSMD5-AS1	MFAP3L	0.992643808	8.10E-05
TOPORS-AS1	MFAP3L	0.961594871	0.002184108
AC087294.2	MFAP3L	0.992844867	7.66E-05
AP001062.8	MFAP3L	0.992194113	9.12E-05
RP11-455F5.3	MFAP3L	0.995687849	2.79E-05
RP11-326C3.2	MFAP3L	0.983922228	0.000385664
AP006621.8	MFAP3L	0.992422499	8.59E-05
JHDM1D-AS1	MFAP3L	0.990584375	0.000132564
RP11-20I23.6	MFAP3L	0.98863957	0.000192856
RP11-160E2.19	MFAP3L	0.942272289	0.004902544
AC005786.7	MFAP3L	0.981478331	0.000511401
AC005944.2	MFAP3L	0.97812951	0.000712247
CTB-191K22.5	MFAP3L	0.981228707	0.000525235
RP11-20I23.8	MFAP3L	0.992016872	9.53E-05
CDC37L1-AS1	MFAP3L	0.976272492	0.000837813

RP5-1142A6.10	MFAP3L	0.978157018	0.000710463
RP11-556I13.1	MFAP3L	0.990419691	0.000137234
RP11-473M20.11	MFSD10	0.950011507	0.003685817
CTA-315H11.2	MFSD2B	-0.923300422	0.008598633
RP11-66D17.5	MFSD2B	0.972863753	0.001094573
AC011558.5	PADI2	0.886784499	0.01850104
CCDC144NL-AS1	EMR3	-0.913175102	0.010980577
RP11-126K1.8	MFSD2B	0.990505974	0.000134777
RP11-66D17.5	EMR3	0.832852013	0.039572747
RP11-126K1.8	EMR3	0.890771608	0.017244669
RP3-438O4.4	EMR3	0.909247918	0.011980196
NUP50-AS1	EMR3	0.903645209	0.013479078
RP3-438O4.4	MFSD2B	0.993354723	6.61E-05
TOPORS-AS1	EMR3	0.915681023	0.010364794
NUP50-AS1	MFSD2B	0.994371017	4.74E-05
AP001062.8	EMR3	0.915869011	0.010319294
PSMD5-AS1	MFSD2B	0.978145448	0.000711213
TOPORS-AS1	MFSD2B	0.973840657	0.001017516
AC087294.2	MFSD2B	0.997677459	8.09E-06
AP001062.8	MFSD2B	0.999209042	9.38E-07
RP11-455F5.3	MFSD2B	0.996395928	1.95E-05
RP11-326C3.2	MFSD2B	0.971882111	0.001174808
AP006621.8	MFSD2B	0.976981847	0.000788655
JHDM1D-AS1	MFSD2B	0.994405525	4.69E-05
CTB-191K22.5	EMR3	0.891642787	0.016975802
RP11-20I23.6	MFSD2B	0.987916023	0.000218151
AC005786.7	MFSD2B	0.98817412	0.00020895
AC005944.2	MFSD2B	0.970165505	0.001321868
CTB-191K22.5	MFSD2B	0.991196316	0.000115916
RP11-20I23.8	MFSD2B	0.994160913	5.10E-05
CCDC144NL-AS1	MX2	-0.884722175	0.019167503
CDC37L1-AS1	MFSD2B	0.991926015	9.75E-05
RP5-1142A6.10	MFSD2B	0.975338589	0.000904778
RP11-556I13.1	MFSD2B	0.994315671	4.84E-05
RP11-498J9.2	MFSD4	0.98448833	0.000359052
RP11-34P13.14	MFSD4	0.963480385	0.001976171
RP11-93O14.2	MFSD4	0.989321434	0.000170439
RP11-485G7.6	MFSD4	0.981244602	0.000524349
RP11-78A19.3	MFSD4	0.984026307	0.0003807
LA16c-359F1.1	MFSD4	0.943688094	0.004667263
Z69720.3	MFSD4	0.982800092	0.000441211
CTA-315H11.2	MGAM	-0.953956582	0.003131189
RP11-66D17.5	MGAM	0.940577908	0.005191568
RP11-126K1.8	MGAM	0.967821867	0.001536489
RP3-438O4.4	MGAM	0.988485584	0.000198109
NUP50-AS1	MGAM	0.979011031	0.000656182
PSMD5-AS1	MGAM	0.986649817	0.000266151
TOPORS-AS1	MGAM	0.977646185	0.000743955
AC087294.2	MGAM	0.997056387	1.30E-05
AP001062.8	MGAM	0.987498065	0.000233471
RP11-455F5.3	MGAM	0.998201195	4.85E-06
RP11-326C3.2	MGAM	0.994101328	5.21E-05
AP006621.8	MGAM	0.989260981	0.000172371
AC011558.5	MX2	0.843328146	0.034896266
CCDC144NL-AS1	MAN1A2	-0.882517859	0.019892333
JHDM1D-AS1	MGAM	0.999070088	1.30E-06
RP11-66D17.5	MAN1A2	0.885802426	0.018816999
RP11-20I23.6	MGAM	0.998198467	4.87E-06
RP11-160E2.19	MGAM	0.956940615	0.002741248
AC005786.7	MGAM	0.990651743	0.000130676
AC005944.2	MGAM	0.967397753	0.001577033
CTB-191K22.5	MGAM	0.971504837	0.001206393
RP11-20I23.8	MGAM	0.999429347	4.88E-07

CDC37L1-AS1	MGAM	0.990969098	0.000121968
RP5-1142A6.10	MGAM	0.98943119	0.000166959
RP11-556I13.1	MGAM	0.999066949	1.31E-06
CTA-315H11.2	MGAT4A	-0.956253271	0.002828804
PSMD5-AS1	MGAT4A	0.952598754	0.003317065
RP11-455F5.3	MGAT4A	0.918204963	0.00976202
RP11-326C3.2	MGAT4A	0.965506002	0.001764233
AP006621.8	MGAT4A	0.958760903	0.002515928
AC005944.2	MAN1A2	0.915949045	0.010299953
RP11-20I23.6	MGAT4A	0.934871907	0.006224377
RP11-160E2.19	MGAT4A	0.995619471	2.87E-05
AC005944.2	MGAT4A	0.919585098	0.009439831
RP11-20I23.8	MGAT4A	0.921538492	0.0089928
RP5-1142A6.10	MGAT4A	0.938891501	0.005487276
AC011558.5	MAN1A2	0.814788441	0.048278296
CTA-315H11.2	C9orf40	-0.871179885	0.023823073
AC011558.5	MGAT4A	0.961494538	0.00219546
AC024028.1	MGAT5	0.990307041	0.000140475
RP11-498J9.2	MGAT5	0.924192728	0.008402291
RP11-34P13.14	MGAT5	0.931095201	0.006958231
RP11-473M20.11	MGAT5	0.991837735	9.97E-05
RP3-337H4.8	MGST3	0.952125033	0.003383154
MIR210HG	MGST3	0.930335734	0.007110621
CTA-315H11.2	MIB2	-0.93682667	0.005860246
PSMD5-AS1	MIB2	0.965889629	0.001725432
RP11-455F5.3	MIB2	0.927757376	0.007639978
RP11-326C3.2	MIB2	0.961082333	0.002242405
AP006621.8	MIB2	0.968502477	0.001472517
JHDM1D-AS1	MIB2	0.918453475	0.009703618
RP11-160E2.19	C9orf40	0.854910386	0.030049354
RP11-20I23.6	MIB2	0.935984717	0.006015769
RP11-160E2.19	MIB2	0.978571543	0.000683848
AC005944.2	MIB2	0.940223271	0.005253087
RMRP	C9orf40	0.854093733	0.030379885
RP11-20I23.8	MIB2	0.92486272	0.008256318
RP5-1142A6.10	MIB2	0.93973403	0.005338538
LL21NC02-21A1.1	C9orf40	0.897388321	0.015253528
RP11-556I13.1	MIB2	0.918212719	0.009760195
AC011558.5	MIB2	0.919761078	0.009399126
RP11-34P13.14	RECQL5	-0.817026655	0.047155963
RP11-118G23.2	RECQL5	-0.838102456	0.037194489
RP11-680G24.6	RECQL5	-0.838424256	0.037050975
RP3-337H4.8	RECQL5	0.875855288	0.022161211
CTC-1337H24.3	RECQL5	0.858151496	0.02875443
CTA-315H11.2	MICAL1	-0.946279597	0.004251307
PSMD5-AS1	MICAL1	0.956264522	0.00282736
AC087294.2	MICAL1	0.921716778	0.008952524
RP11-455F5.3	MICAL1	0.930871972	0.007002856
RP11-326C3.2	MICAL1	0.974284871	0.000983399
AP006621.8	MICAL1	0.962522357	0.002080541
JHDM1D-AS1	MICAL1	0.9301731	0.007143463
RP11-20I23.6	MICAL1	0.949748147	0.003724424
RP11-160E2.19	MICAL1	0.99797982	6.12E-06
AC005786.7	MICAL1	0.926335825	0.00793975
AC005944.2	MICAL1	0.925870623	0.00803907
RP11-20I23.8	MICAL1	0.935094724	0.006182329
RP5-1142A6.10	MICAL1	0.956821284	0.002756351
RP11-556I13.1	MICAL1	0.930166003	0.007144898
AC011558.5	MICAL1	0.962784931	0.002051671
CTA-315H11.2	MICAL2	-0.955013933	0.002990099
RP11-66D17.5	MICAL2	0.940092656	0.005275834
RP11-126K1.8	MICAL2	0.969678625	0.00136514
RP3-438O4.4	MICAL2	0.990379559	0.000138384

NUP50-AS1	MICAL2	0.977664492	0.000742741
PSMD5-AS1	MICAL2	0.982361164	0.000463949
CCDC144NL-AS1	RBM47	-0.865811372	0.025801742
TOPORS-AS1	MICAL2	0.974421058	0.000973055
CTD-2139B15.2	RBM47	-0.813117537	0.049124142
RP3-438O4.4	RBM47	0.817308781	0.047015364
PSMD5-AS1	RBM47	0.89415477	0.016211916
TOPORS-AS1	RBM47	0.829596763	0.041081873
AC087294.2	RBM47	0.850051297	0.032041151
RP11-455F5.3	RBM47	0.861892504	0.027293411
AC087294.2	MICAL2	0.997049647	1.30E-05
AP006621.8	RBM47	0.904940325	0.013125017
JHDM1D-AS1	RBM47	0.866397239	0.025582162
RP11-20I23.6	RBM47	0.88775866	0.018190163
AP001062.8	MICAL2	0.987879083	0.000219485
AC005786.7	RBM47	0.852651909	0.030967619
AC005944.2	RBM47	0.850036171	0.032047446
RP11-20I23.8	RBM47	0.871231578	0.023804385
CDC37L1-AS1	RBM47	0.834664527	0.038743938
RP5-1142A6.10	RBM47	0.893415548	0.016434955
RP11-556I13.1	RBM47	0.866530665	0.025532279
RP11-455F5.3	MICAL2	0.997959062	6.24E-06
CCDC144NL-AS1	CD300LB	-0.863383913	0.026721035
CTA-315H11.2	CD300LB	-0.885736941	0.018838158
PSMD5-AS1	CD300LB	0.859927781	0.028056216
RP11-326C3.2	CD300LB	0.882437831	0.01991889
AP006621.8	CD300LB	0.869851128	0.024305815
RP11-20I23.6	CD300LB	0.831110376	0.040376879
RP11-326C3.2	MICAL2	0.990451653	0.000136321
AC005944.2	CD300LB	0.814352675	0.048498233
RP5-1142A6.10	CD300LB	0.843818673	0.034684076
AP006621.8	MICAL2	0.9855331	0.000312423
JHDM1D-AS1	MICAL2	0.999378598	5.79E-07
RP11-20I23.6	MICAL2	0.995175539	3.49E-05
RP11-160E2.19	MICAL2	0.947001942	0.004138761
AC005786.7	MICAL2	0.98714493	0.000246817
RP11-485G7.6	CYSLTR2	0.903855182	0.013421366
AC005944.2	MICAL2	0.96028756	0.002334302
CTB-191K22.5	MICAL2	0.970583652	0.001285255
LA16c-359F1.1	CYSLTR2	0.813007576	0.049180046
RP11-20I23.8	MICAL2	0.998997859	1.51E-06
CDC37L1-AS1	MICAL2	0.992821573	7.71E-05
RP5-1142A6.10	MICAL2	0.983101619	0.00042592
RP11-556I13.1	MICAL2	0.999384331	5.68E-07
CTD-2139B15.2	MICALL2	0.960227985	0.002341264
RP11-93O14.2	MIER3	0.935827166	0.006045092
RP11-118G23.2	MIER3	0.92904975	0.007372327
RP11-78A19.3	MIER3	0.924976692	0.008231611
RP11-680G24.6	MIER3	0.990377883	0.000138432
LA16c-359F1.1	MIER3	0.971397312	0.001215471
AC024028.1	MIIP	0.966824002	0.001632713
RP11-498J9.2	MIIP	0.996455294	1.88E-05
RP11-34P13.14	MIIP	0.961502468	0.002194562
RP11-93O14.2	MIIP	0.966805743	0.0016345
RP11-485G7.6	MIIP	0.966768424	0.001638157
RP11-473M20.11	MIIP	0.924402477	0.008356459
RP11-78A19.3	MIIP	0.970159649	0.001322384
Z69720.3	MIIP	0.978219613	0.000706412
CTD-2541M15.3	MINPP1	0.926211338	0.007966269
AC011558.5	MINPP1	-0.948928823	0.003845794
LLNLR-284B4.1	MIPOL1	-0.933926929	0.00640425
RP11-77G23.2	MIPOL1	0.942675188	0.004835013
AC024028.1	MIR223	0.964355341	0.001883169

RP11-498J9.2	MIR223	1	0
RP11-34P13.14	MIR223	0.978552256	0.000685076
RP11-93O14.2	MIR223	0.982998398	0.000431125
RP11-485G7.6	MIR223	0.965304842	0.001784749
RP11-78A19.3	MIR223	0.983256999	0.000418145
Z69720.3	MIR223	0.986539728	0.000270549
RP11-156P1.3	MIR3187	0.979921857	0.000600651
CTA-315H11.2	MKRN1	-0.946449479	0.004224705
RP11-66D17.5	MKRN1	0.950180443	0.003661157
RP11-126K1.8	MKRN1	0.97374899	0.001024628
RP3-438O4.4	MKRN1	0.993296703	6.73E-05
NUP50-AS1	MKRN1	0.983716444	0.000395572
PSMD5-AS1	MKRN1	0.982955155	0.000433314
TOPORS-AS1	MKRN1	0.979380105	0.000633387
AC087294.2	MKRN1	0.998976414	1.57E-06
AP001062.8	MKRN1	0.991768524	0.000101357
RP11-455F5.3	MKRN1	0.999049878	1.35E-06
RP11-326C3.2	MKRN1	0.988696408	0.000190935
AP006621.8	MKRN1	0.984969111	0.000337193
JHDM1D-AS1	MKRN1	0.999987593	2.31E-10
RP11-20I23.6	MKRN1	0.996657206	1.67E-05
RP3-339A18.6	GYPA	-0.865266837	0.02600663
CCDC144NL-AS1	TMEM158	-0.867947629	0.02500539
RP11-160E2.19	MKRN1	0.943994555	0.004617081
AC005786.7	MKRN1	0.991449815	0.000109346
AC005944.2	MKRN1	0.96568629	0.001745945
CTB-191K22.5	MKRN1	0.977042963	0.000784489
RP11-20I23.8	MKRN1	0.999799951	6.00E-08
CDC37L1-AS1	MKRN1	0.994802163	4.05E-05
RP5-1142A6.10	MKRN1	0.986153551	0.000286259
RP11-556I13.1	MKRN1	0.999981984	4.87E-10
AC024028.1	MLF1	0.989413978	0.000167503
RP11-498J9.2	MLF1	0.990173589	0.000144363
RP11-34P13.14	MLF1	0.968939376	0.001432161
RP11-93O14.2	MLF1	0.956484441	0.002799205
RP11-485G7.6	MLF1	0.934500939	0.006294691
RP11-473M20.11	MLF1	0.960628893	0.002294612
RP11-78A19.3	MLF1	0.96360814	0.001962453
Z69720.3	MLF1	0.967987708	0.001520777
RP11-498J9.2	MLLT4	0.986092819	0.00028877
RP11-34P13.14	MLLT4	0.956906331	0.002745583
RP11-93O14.2	MLLT4	0.991549803	0.000106807
RP11-485G7.6	MLLT4	0.987801753	0.000222288
LL21NC02-21A1.1	TMEM158	0.815233068	0.048054366
RP11-78A19.3	MLLT4	0.994158552	5.11E-05
LA16c-359F1.1	MLLT4	0.948453179	0.00391713
CCDC144NL-AS1	IPCEF1	-0.901434532	0.014093938
Z69720.3	MLLT4	0.968085261	0.001511572
RP11-66D17.5	IPCEF1	0.882981786	0.019738713
CCDC144NL-AS1	MLLT6	-0.921598482	0.008979238
CTA-315H11.2	MLLT6	-0.974206355	0.000989388
RP3-438O4.4	MLLT6	0.922748559	0.008721168
PSMD5-AS1	MLLT6	0.967339375	0.001582655
TOPORS-AS1	MLLT6	0.924176855	0.008405765
AC087294.2	MLLT6	0.947367144	0.004082424
AP001062.8	MLLT6	0.92207054	0.008872868
RP11-455F5.3	MLLT6	0.955589805	0.002914604
RP11-326C3.2	MLLT6	0.988984523	0.000181343
AP006621.8	MLLT6	0.975590722	0.000886448
JHDM1D-AS1	MLLT6	0.95721144	0.002707121
RP11-20I23.6	MLLT6	0.966642553	0.00165052
RP11-160E2.19	MLLT6	0.992772928	7.82E-05
AC005786.7	MLLT6	0.941679077	0.005002811

AC005944.2	MLLT6	0.927654627	0.007661457
RP11-20I23.8	MLLT6	0.959764078	0.002395825
CDC37L1-AS1	MLLT6	0.931634942	0.00685091
RP5-1142A6.10	MLLT6	0.963540209	0.001969741
RP11-556I13.1	MLLT6	0.957247879	0.002702546
AC011558.5	MLLT6	0.929298712	0.007321302
AC011558.5	IPCEF1	0.90307742	0.013635735
CCDC144NL-AS1	LTA	-0.904272468	0.013307029
CCDC144NL-AS1	MME	-0.918994846	0.009576981
RP11-66D17.5	LTA	0.898763647	0.014854423
CTA-315H11.2	MME	-0.975721593	0.000877006
RP11-126K1.8	MME	0.946392833	0.004233566
RP3-438O4.4	MME	0.970428374	0.001298792
NUP50-AS1	MME	0.951495986	0.003471903
PSMD5-AS1	MME	0.979135107	0.000648474
TOPORS-AS1	MME	0.955644756	0.00290745
AC087294.2	MME	0.983386493	0.00041172
AP001062.8	MME	0.966931987	0.00162216
RP11-455F5.3	MME	0.987633879	0.000228436
RP11-326C3.2	MME	0.994964793	3.80E-05
AP006621.8	MME	0.985772397	0.000302197
JHDM1D-AS1	MME	0.989832842	0.000154531
RP11-20I23.6	MME	0.987226615	0.000243697
RP11-160E2.19	MME	0.964413529	0.001877062
AC005786.7	MME	0.970013314	0.00133532
AC005944.2	MME	0.943422554	0.004710959
CTB-191K22.5	MME	0.941773187	0.004986838
RP11-20I23.8	MME	0.989763682	0.000156637
CDC37L1-AS1	MME	0.975670868	0.00088066
RP5-1142A6.10	MME	0.974473438	0.000969091
AC011558.5	LTA	0.890759138	0.017248532
CCDC144NL-AS1	TSPAN5	-0.86235189	0.027116494
RP11-556I13.1	MME	0.989862945	0.000153619
AC024028.1	MMP15	0.95085021	0.003564187
RP11-498J9.2	MMP15	0.995956273	2.45E-05
RP11-34P13.14	MMP15	0.969680548	0.001364968
RP11-93O14.2	MMP15	0.981900436	0.000488427
RP11-485G7.6	MMP15	0.967150263	0.001600934
RP11-78A19.3	MMP15	0.97703802	0.000784825
Z69720.3	MMP15	0.982877925	0.000437238
AC024028.1	MMP17	0.948878656	0.003853288
RP11-498J9.2	MMP17	0.996229162	2.13E-05
RP11-34P13.14	MMP17	0.961567798	0.002187168
RP11-93O14.2	MMP17	0.979835525	0.00060581
RP11-485G7.6	MMP17	0.976513547	0.000820942
RP11-78A19.3	MMP17	0.977967377	0.000722807
Z69720.3	MMP17	0.978764588	0.000671626
AC024028.1	MMP2	0.962097656	0.002127657
RP11-498J9.2	MMP2	0.99990545	1.34E-08
RP11-34P13.14	MMP2	0.97660323	0.000814709
RMRP	TSPAN5	0.829481509	0.041135789
RP11-93O14.2	MMP2	0.982334645	0.000465341
RP11-485G7.6	MMP2	0.967943673	0.001524941
LL21NC02-21A1.1	TSPAN5	0.844495877	0.034392134
RP11-78A19.3	MMP2	0.982727385	0.000444938
Z69720.3	MMP2	0.986762502	0.000261687
CCDC144NL-AS1	CHI3L2	-0.885134347	0.019033402
AC024028.1	MMP8	0.963334133	0.001991932
RP11-498J9.2	MMP8	0.999961963	2.17E-09
RP11-34P13.14	MMP8	0.97828718	0.000702052
RP11-93O14.2	MMP8	0.984231224	0.000371021
RP11-485G7.6	MMP8	0.966524354	0.001662172
RP11-78A19.3	MMP8	0.984715418	0.000348642

Z69720.3	MMP8	0.985725442	0.00030419
LLNLR-284B4.1	MMS22L	-0.927031842	0.007792274
RP11-77G23.2	MMS22L	0.96276301	0.002054074
CTD-2541M15.3	MMS22L	0.952505536	0.003330019
AC024028.1	MN1	0.963520974	0.001971807
RP11-498J9.2	MN1	0.999985019	3.37E-10
RP11-34P13.14	MN1	0.97849712	0.00068859
RP11-93O14.2	MN1	0.983827075	0.00039023
RP11-485G7.6	MN1	0.965907011	0.001723684
RP11-78A19.3	MN1	0.983938876	0.000384868
Z69720.3	MN1	0.986276756	0.000281199
AC011558.5	MNAT1	-0.929232316	0.007334893
CTD-2139B15.2	MND1	0.959964146	0.002372218
CTA-315H11.2	MNDA	-0.956834781	0.002754641
RP11-66D17.5	MNDA	0.935195795	0.006163302
RP11-126K1.8	MNDA	0.965117895	0.00180392
AC011558.5	CHI3L2	0.862441095	0.027082203
CCDC144NL-AS1	LIMS2	-0.892813327	0.016617741
RP3-438O4.4	MNDA	0.980886079	0.000544521
NUP50-AS1	MNDA	0.976712163	0.00080717
PSMD5-AS1	MNDA	0.992264229	8.95E-05
TOPORS-AS1	MNDA	0.973951113	0.001008979
AC087294.2	MNDA	0.993990325	5.41E-05
AP001062.8	MNDA	0.984109094	0.000376775
RP11-455F5.3	MNDA	0.996341212	2.01E-05
RP11-326C3.2	MNDA	0.997370719	1.04E-05
AP006621.8	MNDA	0.994365709	4.75E-05
JHDM1D-AS1	MNDA	0.995786398	2.66E-05
RP11-20I23.6	MNDA	0.99845442	3.58E-06
RP11-160E2.19	MNDA	0.968858773	0.001439564
AC005786.7	MNDA	0.989536515	0.000163654
AC005944.2	MNDA	0.974476334	0.000968873
CTB-191K22.5	MNDA	0.969248337	0.001403957
RP11-20I23.8	MNDA	0.997197307	1.18E-05
CDC37L1-AS1	MNDA	0.983806792	0.000391207
RP5-1142A6.10	MNDA	0.99249333	8.43E-05
RP11-556I13.1	MNDA	0.995751158	2.70E-05
AC011558.5	MNS1	-0.947754328	0.00402311
RP11-126K1.8	MORF4L2	-0.929832337	0.007212516
PSMD5-AS1	MORF4L2	-0.938463592	0.005563583
AC011558.5	LIMS2	0.862728779	0.026971755
CCDC144NL-AS1	PLB1	-0.89762806	0.015183591
AP006621.8	MORF4L2	-0.927651732	0.007662063
RP11-66D17.5	PLB1	0.893055032	0.016544262
AC005944.2	MORF4L2	-0.953961985	0.003130459
CTB-191K22.5	MORF4L2	-0.917361982	0.009961394
RP11-66D17.5	MOSPD1	0.96165805	0.002176974
RP11-126K1.8	MOSPD1	0.992797831	7.76E-05
RP3-438O4.4	MOSPD1	0.960765113	0.002278866
NUP50-AS1	MOSPD1	0.975240081	0.000911991
PSMD5-AS1	MOSPD1	0.946269578	0.004252879
TOPORS-AS1	MOSPD1	0.928110272	0.007566432
AC087294.2	MOSPD1	0.967539595	0.001563415
AP001062.8	MOSPD1	0.980997278	0.000538224
RP11-455F5.3	MOSPD1	0.966977421	0.001617731
RP11-326C3.2	MOSPD1	0.924221897	0.00839591
AP006621.8	MOSPD1	0.943214534	0.004745329
JHDM1D-AS1	MOSPD1	0.959591365	0.002416296
RP11-20I23.6	MOSPD1	0.94417514	0.004587636
AC005786.7	MOSPD1	0.945769624	0.004331657
AC005944.2	MOSPD1	0.937899474	0.005664968
CTB-191K22.5	MOSPD1	0.975278298	0.000909189
RP11-20I23.8	MOSPD1	0.958595989	0.002535949

CDC37L1-AS1	MOSPD1	0.954256697	0.003090817
AC011558.5	PLB1	0.903296456	0.013575198
CCDC144NL-AS1	DISC1	-0.85567505	0.029741415
CTA-315H11.2	DISC1	-0.878094102	0.021385747
PSMD5-AS1	DISC1	0.842094991	0.035432387
RP11-326C3.2	DISC1	0.868500581	0.024801195
AP006621.8	DISC1	0.853148852	0.030764448
RP11-20I23.6	DISC1	0.813985995	0.04868366
RP5-1142A6.10	MOSPD1	0.923127827	0.008636865
RP5-1142A6.10	DISC1	0.826572273	0.042507657
RP11-556I13.1	MOSPD1	0.959343609	0.002445812
RP11-473M20.11	CAMK2D	0.822013998	0.044699314
CCDC144NL-AS1	CAMK2D	-0.854440766	0.030239218
CTD-2531D15.5	CAMK2D	-0.830018273	0.040884973
CTA-315H11.2	CAMK2D	-0.848756812	0.032581946
RP11-326C3.2	CAMK2D	0.822893578	0.044272406
RP11-160E2.19	CAMK2D	0.903566141	0.013500841
RP11-160E2.19	MPHOSPH6	-0.917975855	0.009816013
CCDC144NL-AS1	C17orf39	-0.850549208	0.031834277
AC011558.5	MPHOSPH6	-0.930208482	0.007136312
AC024028.1	MPP3	0.961544748	0.002189776
RP11-498J9.2	MPP3	0.999739822	1.02E-07
RP11-34P13.14	MPP3	0.975801756	0.000871248
RP11-93O14.2	MPP3	0.984500664	0.000358482
RP11-485G7.6	MPP3	0.968405716	0.00148153
RP11-78A19.3	MPP3	0.984423025	0.000362073
Z69720.3	MPP3	0.984174296	0.000373698
AC024028.1	MPZL2	0.957739917	0.002641135
RP11-473M20.11	MPZL2	0.990703988	0.000129222
AC011558.5	MRAP2	-0.931435091	0.006890553
CTA-315H11.2	MRC2	-0.967419069	0.001574983
RP11-126K1.8	MRC2	0.95022121	0.003655218
RP3-438O4.4	MRC2	0.968838726	0.001441408
NUP50-AS1	MRC2	0.961554089	0.002188719
PSMD5-AS1	MRC2	0.990455091	0.000136223
TOPORS-AS1	MRC2	0.963710898	0.001951454
AC087294.2	MRC2	0.985576279	0.000310565
AP001062.8	MRC2	0.971356671	0.00121891
RP11-455F5.3	MRC2	0.989732026	0.000157606
LL21NC02-21A1.1	C17orf39	0.844158317	0.034537511
RP11-326C3.2	MRC2	0.999945132	4.52E-09
AP006621.8	MRC2	0.994317941	4.83E-05
CCDC144NL-AS1	GPR114	-0.910454357	0.011668626
JHDM1D-AS1	MRC2	0.989668162	0.000159569
RP11-126K1.8	GPR114	0.839779892	0.036449261
RP3-438O4.4	GPR114	0.855119991	0.029964794
NUP50-AS1	GPR114	0.851954452	0.031253833
RP11-20I23.6	MRC2	0.99411316	5.19E-05
TOPORS-AS1	GPR114	0.868580836	0.024771625
AC087294.2	GPR114	0.893668057	0.016358603
AP001062.8	GPR114	0.865604772	0.025879388
RP11-455F5.3	GPR114	0.906193406	0.012786782
RP11-160E2.19	MRC2	0.980431657	0.000570633
AC005786.7	MRC2	0.980321171	0.000577074
JHDM1D-AS1	GPR114	0.904136945	0.013344111
AC005944.2	MRC2	0.966107642	0.001703572
CTB-191K22.5	MRC2	0.952647533	0.003310296
AC005786.7	GPR114	0.892335702	0.016763401
AC005944.2	GPR114	0.900541094	0.014346184
CTB-191K22.5	GPR114	0.838159482	0.037169038
RP11-20I23.8	GPR114	0.909561673	0.011898785
CDC37L1-AS1	GPR114	0.865627496	0.025870842
RP11-20I23.8	MRC2	0.991423395	0.000110022

RP11-556I13.1	GPR114	0.904093624	0.013355975
CDC37L1-AS1	MRC2	0.973527557	0.00104191
CCDC144NL-AS1	CA1	-0.836485535	0.037919529
CTA-315H11.2	CA1	-0.907982953	0.012311145
RP5-1142A6.10	MRC2	0.988667802	0.0001919
RP11-556I13.1	MRC2	0.989649426	0.000160147
CTD-2139B15.2	MRPL2	0.95944279	0.002433975
CTD-2139B15.2	MRPL27	0.959736659	0.002399069
CTD-2139B15.2	MRPL35	0.951183682	0.003516384
RP11-326C3.2	MRPL3P1	-0.928829339	0.007417645
RP11-160E2.19	MRPL3P1	-0.957923703	0.002618376
RP5-1142A6.10	MRPL3P1	-0.917355511	0.009962932
AC011558.5	MRPL3P1	-0.965958914	0.00171847
CTA-315H11.2	MRVI1	-0.945690074	0.004344257
RP11-66D17.5	MRVI1	0.949777343	0.003720134
RP11-126K1.8	MRVI1	0.970997941	0.001249482
RP3-438O4.4	MRVI1	0.986889631	0.000256696
RP11-160E2.19	CA1	0.891662422	0.016969765
NUP50-AS1	MRVI1	0.984649391	0.000351653
PSMD5-AS1	MRVI1	0.990661757	0.000130397
TOPORS-AS1	MRVI1	0.979956299	0.000598599
RMRP	CA1	0.839431955	0.036603255
AC087294.2	MRVI1	0.997027832	1.32E-05
AP001062.8	MRVI1	0.989794508	0.000155697
LL21NC02-21A1.1	CA1	0.885760665	0.018830491
RP11-455F5.3	MRVI1	0.997884457	6.71E-06
RP11-326C3.2	MRVI1	0.993211771	6.90E-05
CCDC144NL-AS1	RHPN1	-0.880967947	0.020409684
AP006621.8	MRVI1	0.991384128	0.00011103
JHDM1D-AS1	MRVI1	0.997267999	1.12E-05
RP11-20I23.6	MRVI1	0.99951172	3.58E-07
RP11-160E2.19	MRVI1	0.959958339	0.002372902
AC005786.7	MRVI1	0.994521897	4.49E-05
AC005944.2	MRVI1	0.97868714	0.000676516
CTB-191K22.5	MRVI1	0.978178976	0.000709041
RP11-20I23.8	MRVI1	0.998537757	3.21E-06
CDC37L1-AS1	MRVI1	0.98878915	0.00018782
RP5-1142A6.10	MRVI1	0.994139237	5.14E-05
RP11-556I13.1	MRVI1	0.997230104	1.15E-05
AC024028.1	MS4A1	0.963479562	0.001976259
RP11-498J9.2	MS4A1	0.999985815	3.02E-10
RP11-34P13.14	MS4A1	0.978132358	0.000712062
RP11-93O14.2	MS4A1	0.983463763	0.00040791
RP11-485G7.6	MS4A1	0.966422017	0.001672292
RP11-78A19.3	MS4A1	0.983925664	0.0003855
Z69720.3	MS4A1	0.986256521	0.000282027
AC024028.1	MS4A2	0.952839322	0.003283749
RP11-498J9.2	MS4A2	0.993920677	5.53E-05
RP11-34P13.14	MS4A2	0.992017129	9.53E-05
RP11-93O14.2	MS4A2	0.985765317	0.000302497
AC011558.5	RHPN1	0.832817093	0.039588795
CCDC144NL-AS1	POU2F2	-0.898092845	0.015048446
RP11-485G7.6	MS4A2	0.947346546	0.004085592
RP11-66D17.5	POU2F2	0.895446129	0.015825802
RP11-78A19.3	MS4A2	0.979819298	0.000606782
Z69720.3	MS4A2	0.994788013	4.07E-05
AC024028.1	MS4A3	0.957477545	0.002673795
RP11-498J9.2	MS4A3	0.999186273	9.93E-07
RP11-34P13.14	MS4A3	0.970955673	0.001253109
RP11-93O14.2	MS4A3	0.98245607	0.000458984
RP11-485G7.6	MS4A3	0.972575676	0.001117827
RP11-78A19.3	MS4A3	0.982110039	0.000477213
Z69720.3	MS4A3	0.983618865	0.000400315

RP5-1033H22.2	MS4A4E	0.930382545	0.007101181
RP3-339A18.6	MS4A4E	0.959355734	0.002444363
RP11-165D6.1	MS4A4E	0.92804557	0.00757989
AC024028.1	MSC	0.963149277	0.002011942
RP11-498J9.2	MSC	0.999953854	3.19E-09
RP11-34P13.14	MSC	0.977693677	0.000740809
RP11-93O14.2	MSC	0.982691819	0.000446767
RP11-485G7.6	MSC	0.966827978	0.001632324
RP11-78A19.3	MSC	0.983252349	0.000418377
Z69720.3	MSC	0.986743425	0.00026244
RP11-160E2.19	MSL3L2	-0.940816711	0.005150343
AC011558.5	POU2F2	0.895674744	0.015757913
CCDC144NL-AS1	TMEM25	-0.891569195	0.016998436
CTA-315H11.2	TMEM25	-0.897424487	0.015242968
PSMD5-AS1	TMEM25	0.888473548	0.017963633
TOPORS-AS1	TMEM25	0.834371428	0.038877406
AC087294.2	TMEM25	0.841725852	0.035593619
RP11-455F5.3	TMEM25	0.855328033	0.029880977
AC011558.5	MSL3L2	-0.970396723	0.00130156
AP006621.8	TMEM25	0.900134187	0.014461781
JHDM1D-AS1	TMEM25	0.854520828	0.03020681
RP11-20I23.6	TMEM25	0.878556029	0.02122739
RP3-339A18.6	MT1P2	-0.928730937	0.007437921
AC005786.7	TMEM25	0.845432827	0.033990133
AC005944.2	TMEM25	0.838074322	0.037207048
RP11-20I23.8	TMEM25	0.859852853	0.028085504
RP5-1142A6.10	TMEM25	0.889346649	0.017688817
RP11-556I13.1	TMEM25	0.854526051	0.030204696
CTA-315H11.2	MT1P3	-0.951095774	0.003528955
RP11-66D17.5	MT1P3	0.946674649	0.004189572
RP11-126K1.8	MT1P3	0.972944416	0.001088105
RP3-438O4.4	SLC25A42	0.897777702	0.015140215
RP3-438O4.4	MT1P3	0.987482876	0.000234037
PSMD5-AS1	SLC25A42	0.913369944	0.010932081
TOPORS-AS1	SLC25A42	0.875033467	0.022449173
AC087294.2	SLC25A42	0.912994149	0.011025709
NUP50-AS1	MT1P3	0.983266257	0.000417684
RP11-455F5.3	SLC25A42	0.911300682	0.011452429
RP11-326C3.2	SLC25A42	0.858314355	0.028690076
AP006621.8	SLC25A42	0.899516494	0.014638115
JHDM1D-AS1	SLC25A42	0.894466717	0.016118234
RP11-20I23.6	SLC25A42	0.890515855	0.017323986
AC005786.7	SLC25A42	0.90496968	0.013117044
PSMD5-AS1	MT1P3	0.990408145	0.000137564
TOPORS-AS1	MT1P3	0.977307748	0.000766565
RP11-20I23.8	SLC25A42	0.897809086	0.015130885
CDC37L1-AS1	SLC25A42	0.887924298	0.018137555
AC087294.2	MT1P3	0.997721911	7.78E-06
RP5-1142A6.10	SLC25A42	0.882124136	0.020023153
RP11-556I13.1	SLC25A42	0.89398393	0.016263332
CTA-315H11.2	GLYCTK	-0.865882012	0.025775219
AP001062.8	MT1P3	0.990230032	0.000142712
RP11-455F5.3	MT1P3	0.999002558	1.49E-06
RP11-326C3.2	MT1P3	0.993685073	5.97E-05
AP006621.8	MT1P3	0.991885053	9.85E-05
JHDM1D-AS1	MT1P3	0.998495705	3.39E-06
RP11-20I23.6	MT1P3	0.998674798	2.63E-06
RP11-160E2.19	MT1P3	0.957526604	0.002667673
AC005786.7	MT1P3	0.992090969	9.36E-05
AC005944.2	MT1P3	0.974656924	0.000955269
CTB-191K22.5	MT1P3	0.976695966	0.000808289
RP11-20I23.8	MT1P3	0.999365029	6.05E-07
CDC37L1-AS1	MT1P3	0.989449465	0.000166383

RP5-1142A6.10	MT1P3	0.990919776	0.000123301
RP11-160E2.19	GLYCTK	0.896274148	0.015580583
RP11-556I13.1	MT1P3	0.998457293	3.57E-06
CTA-315H11.2	MTHFD1	0.925285882	0.008164765
PSMD5-AS1	MTHFD1	-0.950837753	0.003565979
RP11-326C3.2	MTHFD1	-0.957660703	0.002650975
AP006621.8	MTHFD1	-0.955626673	0.002909803
LL21NC02-21A1.1	GLYCTK	0.911649681	0.011363847
RP11-20I23.6	MTHFD1	-0.930202983	0.007137423
RP11-160E2.19	MTHFD1	-0.982895435	0.000436347
CCDC144NL-AS1	TTLL7	-0.912025164	0.011268914
AC005944.2	MTHFD1	-0.921190133	0.009071749
CTA-315H11.2	TTLL7	-0.823326987	0.044062752
PSMD5-AS1	TTLL7	0.815392965	0.047973955
AP006621.8	TTLL7	0.822534163	0.044446619
RP11-160E2.19	TTLL7	0.828973396	0.041373876
CCDC144NL-AS1	ATP10A	-0.913831847	0.010817529
RP5-1142A6.10	MTHFD1	-0.938641925	0.005531719
RP11-66D17.5	ATP10A	0.845552204	0.033939074
RP11-126K1.8	ATP10A	0.901165643	0.014169627
AC011558.5	MTHFD1	-0.946271322	0.004252605
NUP50-AS1	ATP10A	0.913820484	0.01082034
CTD-2139B15.2	MTHFD1L	0.925550345	0.008107799
RP11-34P13.14	MTMR11	0.938517007	0.00555403
RP11-93O14.2	MTMR11	0.942734855	0.004825051
RP11-680G24.6	MTMR11	0.921957819	0.008898212
Z69720.3	MTMR11	0.941992925	0.004949639
CCDC144NL-AS1	MTMR3	-0.926279182	0.007951811
CTA-315H11.2	MTMR3	-0.979885623	0.000602813
RP11-126K1.8	MTMR3	0.947173716	0.004112215
RP3-438O4.4	MTMR3	0.952739885	0.0032975
NUP50-AS1	MTMR3	0.948910629	0.003848511
PSMD5-AS1	MTMR3	0.991255743	0.000114359
TOPORS-AS1	MTMR3	0.941470184	0.005038355
CTB-191K22.5	ATP10A	0.901882883	0.013968168
AC087294.2	MTMR3	0.976018004	0.000855808
AP001062.8	MTMR3	0.961731211	0.002168728
RP11-455F5.3	MTMR3	0.982906386	0.00043579
RP11-326C3.2	MTMR3	0.996882703	1.46E-05
AP006621.8	MTMR3	0.995772376	2.68E-05
CCDC144NL-AS1	GAL3ST4	-0.898516313	0.014925821
JHDM1D-AS1	MTMR3	0.980812009	0.000548736
RP11-66D17.5	GAL3ST4	0.910127421	0.011752667
RP11-20I23.6	MTMR3	0.98408916	0.000377718
RP11-160E2.19	MTMR3	0.98121318	0.000526102
AC005786.7	MTMR3	0.964375938	0.001881006
AC005944.2	MTMR3	0.960834876	0.002270823
CTB-191K22.5	MTMR3	0.941396447	0.005050931
RP11-20I23.8	MTMR3	0.983034381	0.000429307
CDC37L1-AS1	MTMR3	0.958696055	0.002523791
RP5-1142A6.10	MTMR3	0.975399136	0.00090036
RP11-556I13.1	MTMR3	0.98073626	0.000553063
CTA-315H11.2	MTMR9LP	-0.973691221	0.001029123
RP11-126K1.8	MTMR9LP	0.950899339	0.003557125
RP3-438O4.4	MTMR9LP	0.968051213	0.001514782
NUP50-AS1	MTMR9LP	0.958098619	0.002596805
PSMD5-AS1	MTMR9LP	0.988829839	0.000186462
TOPORS-AS1	MTMR9LP	0.958468614	0.002551466
AC087294.2	MTMR9LP	0.984904081	0.00034011
AP001062.8	MTMR9LP	0.970228828	0.001316291
RP11-455F5.3	MTMR9LP	0.989608991	0.000161399
RP11-326C3.2	MTMR9LP	0.999206424	9.44E-07
AP006621.8	MTMR9LP	0.993624623	6.08E-05

AC011558.5	GAL3ST4	0.87953619	0.020893237
CTA-315H11.2	TTC21A	-0.900459051	0.014369455
CTD-2139B15.2	TTC21A	-0.911377279	0.011432959
RP11-91K8.5	TTC21A	-0.881704267	0.020163112
RP11-326C3.2	TTC21A	0.851103599	0.031604681
AP006621.8	TTC21A	0.813063884	0.049151416
RP11-160E2.19	TTC21A	0.883424923	0.01959251
AC011558.5	TTC21A	0.877393197	0.021627103
RMRP	IFT80	0.915791352	0.010338079
JHDM1D-AS1	MTMR9LP	0.989750086	0.000157053
RP11-498J9.2	TNFSF8	0.861604322	0.027404674
RP11-34P13.14	TNFSF8	0.851275155	0.031533791
RP11-20I23.6	MTMR9LP	0.9916079	0.000105345
Z69720.3	TNFSF8	0.818136056	0.046604212
CCDC144NL-AS1	GFOD2	-0.825891352	0.042831783
RP11-160E2.19	MTMR9LP	0.976442015	0.000825931
AC005786.7	MTMR9LP	0.975683383	0.000879758
AC005944.2	MTMR9LP	0.959834175	0.002387541
CTB-191K22.5	MTMR9LP	0.94926989	0.003795038
RP11-20I23.8	MTMR9LP	0.991015612	0.000120716
CDC37L1-AS1	MTMR9LP	0.973049361	0.001079718
RP5-1142A6.10	MTMR9LP	0.983100257	0.000425989
RP11-556I13.1	MTMR9LP	0.989732354	0.000157596
CTD-2541M15.3	MTRF1L	0.951125394	0.003524717
RP11-160E2.19	MTRF1L	-0.91955076	0.009447783
CTA-315H11.2	MTUS1	-0.951291627	0.003500978
RP11-66D17.5	MTUS1	0.942729103	0.004826011
RP11-126K1.8	MTUS1	0.97032649	0.001307712
RP3-438O4.4	MTUS1	0.989944862	0.00015115
NUP50-AS1	MTUS1	0.980328328	0.000576656
PSMD5-AS1	MTUS1	0.985146882	0.000329284
TOPORS-AS1	MTUS1	0.978398381	0.000694905
AC087294.2	MTUS1	0.997749875	7.59E-06
AP001062.8	MTUS1	0.989017205	0.00018027
RP11-455F5.3	MTUS1	0.998668778	2.66E-06
LL21NC02-21A1.1	GFOD2	0.874823735	0.022522946
RP11-326C3.2	MTUS1	0.992416752	8.60E-05
AP006621.8	MTUS1	0.987814845	0.000221812
JHDM1D-AS1	MTUS1	0.999460305	4.37E-07
RP11-498J9.2	KLF12	0.893050189	0.016545733
RP11-34P13.14	KLF12	0.880797269	0.020467043
RP11-93O14.2	KLF12	0.828064341	0.041801436
RP11-20I23.6	MTUS1	0.997455425	9.70E-06
RP11-78A19.3	KLF12	0.845555838	0.033937521
Z69720.3	KLF12	0.85142942	0.031470111
RP11-160E2.19	MTUS1	0.951902802	0.003414378
AC005786.7	MTUS1	0.990443857	0.000136543
AC005944.2	MTUS1	0.965370264	0.001778064
CTB-191K22.5	MTUS1	0.972600652	0.001115802
RP11-20I23.8	MTUS1	0.999549294	3.05E-07
CDC37L1-AS1	MTUS1	0.991718038	0.000102602
RP5-1142A6.10	MTUS1	0.987856924	0.000220286
RP11-556I13.1	MTUS1	0.999453564	4.48E-07
CTD-2139B15.2	MUC1	0.930278266	0.007122217
AC024028.1	MUC12	0.955116749	0.00297655
RP11-498J9.2	MUC12	0.996691876	1.64E-05
RP11-34P13.14	MUC12	0.965909523	0.001723432
RP11-93O14.2	MUC12	0.981054406	0.000535003
RP11-485G7.6	MUC12	0.970190477	0.001319667
RP11-78A19.3	MUC12	0.978817338	0.000668305
Z69720.3	MUC12	0.978128814	0.000712292
RP11-160E2.19	MUT	-0.928018575	0.007585509
AC005944.2	MUT	-0.933618377	0.006463524

RP5-1142A6.10	MUT	-0.921603581	0.008978086
RP11-66D17.5	MUTYH	0.970509531	0.001291708
RP11-126K1.8	MUTYH	0.920057875	0.00933067
RP3-438O4.4	MUTYH	0.927650044	0.007662416
CCDC144NL-AS1	DPP4	-0.893932594	0.016278797
NUP50-AS1	MUTYH	0.934871632	0.006224429
RP11-66D17.5	DPP4	0.910703925	0.011604669
AP001062.8	MUTYH	0.924726001	0.008286004
CTB-191K22.5	MUTYH	0.93803486	0.005640555
LL21NC02-21A1.1	MUTYH	0.948791749	0.003866286
CTA-315H11.2	MX1	-0.943813358	0.004646719
RP11-66D17.5	MX1	0.919833374	0.009382429
RP11-126K1.8	MX1	0.948870019	0.003854579
RP3-438O4.4	MX1	0.96472854	0.001844174
NUP50-AS1	MX1	0.966375516	0.001676901
PSMD5-AS1	MX1	0.98940828	0.000167683
TOPORS-AS1	MX1	0.971679399	0.001191727
AC087294.2	MX1	0.982482925	0.000457584
AP001062.8	MX1	0.971009817	0.001248464
RP11-455F5.3	MX1	0.985771394	0.00030224
RP11-326C3.2	MX1	0.995775873	2.67E-05
AP006621.8	MX1	0.99133556	0.000112284
JHDM1D-AS1	MX1	0.984062246	0.000378994
RP11-20I23.6	MX1	0.993772892	5.80E-05
RP11-160E2.19	MX1	0.980563641	0.000562987
AC005786.7	MX1	0.985014158	0.00033518
AC005944.2	MX1	0.973809251	0.00101995
AC011558.5	DPP4	0.883800383	0.019469043
CCDC144NL-AS1	FFAR2	-0.890952729	0.017188604
CTB-191K22.5	MX1	0.955938497	0.002869353
RP11-20I23.8	MX1	0.986856539	0.000257991
CDC37L1-AS1	MX1	0.966711271	0.001643765
RP5-1142A6.10	MX1	0.995099733	3.60E-05
RP11-556I13.1	MX1	0.98401038	0.000381458
CTA-315H11.2	MX2	-0.959551575	0.002421024
RP11-66D17.5	MX2	0.933525705	0.006481378
RP11-126K1.8	MX2	0.964693257	0.001847843
RP3-438O4.4	MX2	0.983633161	0.000399618
NUP50-AS1	MX2	0.975305495	0.000907198
PSMD5-AS1	MX2	0.989392214	0.000168191
TOPORS-AS1	MX2	0.973816914	0.001019356
AC087294.2	MX2	0.994875655	3.93E-05
AP001062.8	MX2	0.984216142	0.000371729
RP11-455F5.3	MX2	0.996987077	1.36E-05
RP11-326C3.2	MX2	0.996789128	1.54E-05
AP006621.8	MX2	0.992270626	8.94E-05
JHDM1D-AS1	MX2	0.997397942	1.01E-05
RP11-20I23.6	MX2	0.997928853	6.43E-06
RP11-160E2.19	MX2	0.964599754	0.001857585
AC005786.7	MX2	0.988426436	0.000200146
AC005944.2	MX2	0.968746029	0.001449951
AC011558.5	FFAR2	0.863707594	0.026597572
CCDC144NL-AS1	C2orf89	-0.885578127	0.018889521
CTB-191K22.5	MX2	0.967653772	0.001552496
RP11-20I23.8	MX2	0.998197062	4.87E-06
CDC37L1-AS1	MX2	0.986802736	0.000260102
RP5-1142A6.10	MX2	0.989877028	0.000153193
RP11-556I13.1	MX2	0.997384853	1.02E-05
RP11-767C1.1	MXD3	0.959909785	0.002378621
CTA-315H11.2	MXD4	-0.944818716	0.004483448
RP11-66D17.5	MXD4	0.954107931	0.003110797
RP11-126K1.8	MXD4	0.976036318	0.000854506
RP3-438O4.4	MXD4	0.992961341	7.41E-05

NUP50-AS1	MXD4	0.986299058	0.000280288
PSMD5-AS1	MXD4	0.98531208	0.000322018
TOPORS-AS1	MXD4	0.97969698	0.000614134
AC087294.2	MXD4	0.999442898	4.65E-07
AP001062.8	MXD4	0.993242219	6.83E-05
RP11-455F5.3	MXD4	0.999501684	3.72E-07
RP11-326C3.2	MXD4	0.988751843	0.00018907
AP006621.8	MXD4	0.986577452	0.000269038
JHDM1D-AS1	MXD4	0.999773871	7.67E-08
RP11-20I23.6	MXD4	0.997385747	1.02E-05
RP11-160E2.19	MXD4	0.945355118	0.004397508
AC005786.7	MXD4	0.992905382	7.53E-05
AC011558.5	C2orf89	0.847097007	0.033281603
RP11-473M20.11	SIDT1	0.881778142	0.020138453
CTD-2541M15.3	SIDT1	-0.827006957	0.042301343
RP11-160E2.19	SIDT1	0.859088715	0.028385019
AC005944.2	MXD4	0.970677084	0.001277144
CCDC144NL-AS1	ITGA6	-0.875847245	0.02216402
CTB-191K22.5	MXD4	0.980284881	0.000579197
RP11-66D17.5	ITGA6	0.891116966	0.01713784
RP11-20I23.8	MXD4	0.999934653	6.41E-09
CDC37L1-AS1	MXD4	0.994367213	4.75E-05
RP5-1142A6.10	MXD4	0.987804495	0.000222189
RP11-556I13.1	MXD4	0.999751749	9.24E-08
CTA-315H11.2	MXI1	-0.946006882	0.004294183
RP11-66D17.5	MXI1	0.949713715	0.003729486
RP11-126K1.8	MXI1	0.977186654	0.000774737
RP3-438O4.4	MXI1	0.992246172	8.99E-05
NUP50-AS1	MXI1	0.983843548	0.000389438
PSMD5-AS1	MXI1	0.982633667	0.000449766
TOPORS-AS1	MXI1	0.976999661	0.00078744
AC087294.2	MXI1	0.998700402	2.53E-06
AP001062.8	MXI1	0.99257691	8.24E-05
RP11-455F5.3	MXI1	0.999127328	1.14E-06
RP11-326C3.2	MXI1	0.98719766	0.000244801
AP006621.8	MXI1	0.984805928	0.000344536
JHDM1D-AS1	MXI1	0.999380101	5.76E-07
RP11-20I23.6	MXI1	0.994778617	4.08E-05
RP11-160E2.19	MXI1	0.939642765	0.005354553
AC005786.7	MXI1	0.989067273	0.000178633
AC011558.5	ITGA6	0.912371905	0.01118159
CCDC144NL-AS1	SLC4A1	-0.841608448	0.035644971
CTA-315H11.2	SLC4A1	-0.910600852	0.011631063
AC005944.2	MXI1	0.963619039	0.001961285
CTB-191K22.5	MXI1	0.976996847	0.000787632
RP11-20I23.8	MXI1	0.999042968	1.37E-06
CDC37L1-AS1	MXI1	0.992971611	7.39E-05
RP5-1142A6.10	MXI1	0.982970248	0.000432549
RP11-556I13.1	MXI1	0.999354497	6.25E-07
AC024028.1	MYADM	0.976996908	0.000787627
RP11-498J9.2	MYADM	0.998167945	5.03E-06
RP11-34P13.14	MYADM	0.982911661	0.000435522
RP11-93O14.2	MYADM	0.976707263	0.000807509
RP11-485G7.6	MYADM	0.948429019	0.003920771
RP11-473M20.11	MYADM	0.932962827	0.006590342
RP11-78A19.3	MYADM	0.976699535	0.000808042
RP11-160E2.19	SLC4A1	0.895257525	0.015881915
Z69720.3	MYADM	0.984758565	0.000346682
RP4-784A16.3	MYB	0.917501243	0.009928322
CTD-2139B15.2	MYBL2	0.941693455	0.005000369
RMRP	SLC4A1	0.833689749	0.039188653
RP3-337H4.8	MYCBPAP	0.918773539	0.009628651
MIR210HG	MYCBPAP	0.950951988	0.003549564

LL21NC02-21A1.1	SLC4A1	0.886673138	0.018536739
AC024028.1	MYCN	0.961495394	0.002195363
RP11-498J9.2	MYCN	0.99977336	7.70E-08
AC024028.1	CLIP4	0.917074929	0.010029731
RP11-34P13.14	MYCN	0.981234035	0.000524938
RP11-93O14.2	MYCN	0.984372267	0.000364431
RP11-485G7.6	MYCN	0.964353941	0.001883316
RP11-78A19.3	MYCN	0.983413812	0.000410371
RP11-473M20.11	CLIP4	0.867386668	0.025213355
Z69720.3	MYCN	0.989450434	0.000166353
RP11-680G24.6	CLIP4	0.815255775	0.048042943
LA16c-359F1.1	CLIP4	0.905129059	0.0130738
RP11-66D17.5	MYL4	0.985598827	0.000309597
RP11-126K1.8	MYL4	0.988758949	0.000188832
RP3-438O4.4	MYL4	0.990584064	0.000132572
NUP50-AS1	MYL4	0.999299723	7.35E-07
PSMD5-AS1	MYL4	0.976145442	0.000846773
TOPORS-AS1	MYL4	0.977236809	0.000771347
AC087294.2	MYL4	0.994198013	5.04E-05
AP001062.8	MYL4	0.998724239	2.44E-06
RP11-455F5.3	MYL4	0.991469269	0.00010885
RP11-326C3.2	MYL4	0.964692606	0.001847911
AP006621.8	MYL4	0.972188367	0.001149474
JHDM1D-AS1	MYL4	0.988460326	0.000198978
RP11-20I23.6	MYL4	0.986218764	0.000283575
AC005786.7	MYL4	0.991917076	9.77E-05
AC005944.2	MYL4	0.980317687	0.000577278
CTB-191K22.5	MYL4	0.997539083	9.08E-06
RP11-20I23.8	MYL4	0.989201362	0.000174286
CDC37L1-AS1	MYL4	0.988355361	0.000202607
RP5-1142A6.10	MYL4	0.978935621	0.000660889
RP11-556I13.1	MYL4	0.988350001	0.000202793
AC024028.1	MYO10	0.918816056	0.009618714
RP11-498J9.2	MYO10	0.979935221	0.000599854
CCDC144NL-AS1	PLXNB1	-0.870002486	0.024250593
CTA-315H11.2	PLXNB1	-0.91024115	0.011723399
PSMD5-AS1	PLXNB1	0.887315478	0.018331279
AC087294.2	PLXNB1	0.829092123	0.041318186
RP11-455F5.3	PLXNB1	0.843383516	0.034872284
RP11-326C3.2	PLXNB1	0.914364553	0.010686144
AP006621.8	PLXNB1	0.897291472	0.015281824
JHDM1D-AS1	PLXNB1	0.843261548	0.034925121
RP11-20I23.6	PLXNB1	0.870216054	0.024172777
RP11-34P13.14	MYO10	0.968428979	0.00147936
AC005786.7	PLXNB1	0.834161995	0.038972907
AC005944.2	PLXNB1	0.843905392	0.034646626
RP11-20I23.8	PLXNB1	0.849830962	0.032132898
RP5-1142A6.10	PLXNB1	0.881381139	0.020271142
RP11-556I13.1	PLXNB1	0.843284328	0.03491525
RP11-93O14.2	MYO10	0.961311321	0.002216266
CCDC144NL-AS1	FCGR3B	-0.868058313	0.024964453
RP11-485G7.6	MYO10	0.952284483	0.003360837
RP11-78A19.3	MYO10	0.954577968	0.003047885
Z69720.3	MYO10	0.996314994	2.03E-05
AC011558.5	MYO15B	0.93903949	0.005461005
AC011558.5	MYO1D	-0.940916126	0.005133228
RP11-77G23.2	MYO1E	0.933252245	0.006534205
CTA-315H11.2	MYO1F	-0.94927871	0.00379373
PSMD5-AS1	MYO1F	0.957995421	0.002609521
AC087294.2	MYO1F	0.927078776	0.007782378
RP11-455F5.3	MYO1F	0.935553491	0.006096194
RP11-326C3.2	MYO1F	0.977435397	0.000757997
AP006621.8	MYO1F	0.964359893	0.001882691

JHDM1D-AS1	MYO1F	0.935785329	0.006052891
RP11-20I23.6	MYO1F	0.954411275	0.003070124
RP11-160E2.19	MYO1F	0.998674767	2.63E-06
AC005786.7	MYO1F	0.931777913	0.006822618
AC005944.2	MYO1F	0.927873077	0.007615827
RP11-20I23.8	MYO1F	0.940338356	0.005233085
RP5-1142A6.10	MYO1F	0.960796589	0.002275235
RP11-556I13.1	MYO1F	0.935801088	0.006049953
LL21NC02-21A1.1	FCGR3B	0.815667075	0.047836251
AC011558.5	MYO1F	0.960545166	0.002304317
AC024028.1	MYO1G	0.996925849	1.42E-05
CCDC144NL-AS1	TMEM86B	-0.854021216	0.030409318
RP11-498J9.2	MYO1G	0.972746653	0.001103996
RP11-34P13.14	MYO1G	0.95447977	0.003060976
RP11-93O14.2	MYO1G	0.928662566	0.007452025
RP11-473M20.11	MYO1G	0.978705793	0.000675337
RP11-78A19.3	MYO1G	0.932878312	0.006606779
Z69720.3	MYO1G	0.947200301	0.004108115
RP11-77G23.2	NAA25	0.923527391	0.008548482
RP11-473M20.11	NAAA	0.956100997	0.002848384
AC024028.1	NAALADL1	0.985349547	0.000320381
RP11-498J9.2	NAALADL1	0.992706835	7.96E-05
RP11-34P13.14	NAALADL1	0.967347642	0.001581858
RP11-93O14.2	NAALADL1	0.957906809	0.002620464
RP11-485G7.6	NAALADL1	0.942820982	0.004810688
RP11-473M20.11	NAALADL1	0.953306268	0.003219554
RP11-78A19.3	NAALADL1	0.96377601	0.0019445
Z69720.3	NAALADL1	0.972487067	0.001125029
RP11-498J9.2	NACC2	0.95981455	0.002389858
RP11-34P13.14	NACC2	0.968630054	0.001460675
RP11-93O14.2	NACC2	0.969933038	0.001342443
RP11-485G7.6	NACC2	0.920190593	0.009300138
LL21NC02-21A1.1	TMEM86B	0.852880816	0.030873954
RP11-78A19.3	NACC2	0.950155075	0.003664855
Z69720.3	NACC2	0.976427306	0.000826959
AC024028.1	NAMPT	0.97584693	0.000868011
RP11-498J9.2	NAMPT	0.995126805	3.56E-05
RP11-34P13.14	NAMPT	0.980061111	0.000592376
RP11-93O14.2	NAMPT	0.980191429	0.000584683
RP11-485G7.6	NAMPT	0.950047556	0.003680548
RP11-473M20.11	NAMPT	0.936124646	0.005989784
RP11-78A19.3	NAMPT	0.985562047	0.000311177
Z69720.3	NAMPT	0.973552273	0.001039974
AC024028.1	NAPSB	0.950192678	0.003659374
RP11-473M20.11	NAPSB	0.985294529	0.000322786
RP11-160E2.19	NASP	-0.95977473	0.002394565
AC011558.5	NASP	-0.946758544	0.004176518
CTD-2531D15.5	NAT10	0.919297461	0.009506546
RP11-160E2.19	NBEAL2	0.948257049	0.003946733
AC011558.5	NBEAL2	0.984153698	0.000374668
CTD-2531D15.5	NBL1	0.980563868	0.000562974
RP11-770G2.2	NBL1	0.97739297	0.00076084
AC024028.1	NBPF10	0.996098914	2.28E-05
RP11-498J9.2	NBPF10	0.956175673	0.002838774
RP11-34P13.14	NBPF10	0.964956243	0.001820579
RP11-473M20.11	NBPF10	0.980222377	0.000582864
RP11-78A19.3	NBPF10	0.920075394	0.009326637
RP11-118G23.2	IFI27	-0.834450462	0.038841395
Z69720.3	NBPF10	0.940924588	0.005131773
RP11-34P13.14	NBPF12	0.929477632	0.007284738
RP11-680G24.6	NBPF12	0.960816479	0.002272942
Z69720.3	NBPF12	0.926281838	0.007951245
RP11-160E2.19	NBPF14	0.946161196	0.004269896

AC011558.5	NBPF14	0.978818844	0.000668211
RP11-498J9.2	NBPF8	0.959046405	0.002481452
RP11-34P13.14	NBPF8	0.945791004	0.004328273
RP11-93O14.2	NBPF8	0.980003336	0.000595802
RP11-326C3.2	IFI27	0.894422791	0.01613141
AP006621.8	IFI27	0.916687016	0.01012244
RP11-485G7.6	NBPF8	0.949821493	0.003713652
RP11-78A19.3	NBPF8	0.991279214	0.000113747
RP11-160E2.19	IFI27	0.836696521	0.037824549
LA16c-359F1.1	NBPF8	0.958470299	0.002551261
Z69720.3	NBPF8	0.927412558	0.007712176
CTA-315H11.2	NBPF9	-0.97134596	0.001219818
PSMD5-AS1	NBPF9	0.946185089	0.004266142
AC087294.2	NBPF9	0.918730658	0.009638679
RP11-455F5.3	NBPF9	0.928555949	0.007474044
RP11-326C3.2	NBPF9	0.973394997	0.001052323
AP006621.8	NBPF9	0.956139289	0.002843454
CTA-315H11.2	CETN2	-0.894925252	0.015981004
JHDM1D-AS1	NBPF9	0.931720153	0.006834041
RP11-20I23.6	NBPF9	0.943603897	0.004681096
RP11-160E2.19	NBPF9	0.990455291	0.000136217
RP11-20I23.8	NBPF9	0.934694853	0.006257888
RP5-1142A6.10	NBPF9	0.94140039	0.005050259
RP11-556I13.1	NBPF9	0.931801481	0.00681796
AC011558.5	NBPF9	0.947518824	0.004059137
AC011558.5	NCAPG2	-0.952710857	0.003301519
CTD-2139B15.2	NCAPH	0.920941287	0.009128351
CTA-315H11.2	NCF1	-0.944444672	0.004543859
RP11-126K1.8	NCF1	0.936632243	0.005895983
RP3-438O4.4	NCF1	0.962987122	0.002029577
NUP50-AS1	NCF1	0.960095159	0.002356822
RP11-160E2.19	CETN2	0.89875496	0.014856928
PSMD5-AS1	NCF1	0.985116669	0.000330622
TOPORS-AS1	NCF1	0.970808147	0.001265808
AC087294.2	NCF1	0.978743679	0.000672945
AP001062.8	NCF1	0.964317605	0.001887134
RP11-455F5.3	NCF1	0.981428224	0.000514163
LL21NC02-21A1.1	CETN2	0.853613208	0.030575171
RP11-326C3.2	NCF1	0.995000473	3.74E-05
AP006621.8	NCF1	0.987181829	0.000245405
CCDC144NL-AS1	SLC25A45	-0.84562227	0.033909123
JHDM1D-AS1	NCF1	0.981582648	0.000505675
RP11-20I23.6	NCF1	0.9929809	7.37E-05
RP11-160E2.19	NCF1	0.985131733	0.000329955
AC005786.7	NCF1	0.984341196	0.000365877
AC005944.2	NCF1	0.971302387	0.001223513
CTB-191K22.5	NCF1	0.950134854	0.003667803
RP11-20I23.8	NCF1	0.98445473	0.000360605
CDC37L1-AS1	NCF1	0.967072778	0.001608453
RP5-1142A6.10	NCF1	0.995864217	2.56E-05
RP11-556I13.1	NCF1	0.981582357	0.000505691
CTA-315H11.2	NCF2	-0.955330277	0.00294851
RP11-126K1.8	NCF2	0.939085614	0.00545283
RP3-438O4.4	NCF2	0.952140971	0.00338092
NUP50-AS1	NCF2	0.954663562	0.003036497
PSMD5-AS1	NCF2	0.990634694	0.000131153
TOPORS-AS1	NCF2	0.956676228	0.002774766
AC087294.2	NCF2	0.97429533	0.000982603
AP001062.8	NCF2	0.960600242	0.00229793
RP11-455F5.3	NCF2	0.979344074	0.000635594
RP11-326C3.2	NCF2	0.99598441	2.42E-05
LL21NC02-21A1.1	SLC25A45	0.856066359	0.029584411
AP006621.8	NCF2	0.992857574	7.63E-05

JHDM1D-AS1	NCF2	0.977143298	0.000777673
CCDC144NL-AS1	ANKH	-0.845801117	0.033832727
RP11-20I23.6	NCF2	0.988456141	0.000199122
RP11-160E2.19	NCF2	0.989994323	0.00014967
AC005786.7	NCF2	0.97543062	0.000898066
AC005944.2	NCF2	0.972999784	0.001083676
CTB-191K22.5	NCF2	0.945654179	0.004349948
RP11-20I23.8	NCF2	0.98066725	0.00055702
CDC37L1-AS1	NCF2	0.956698536	0.00277193
RP5-1142A6.10	NCF2	0.989631919	0.000160688
RP11-556I13.1	NCF2	0.977079536	0.000782001
AC024028.1	NCF4	0.993802565	5.75E-05
RP11-498J9.2	NCF4	0.98061742	0.000559886
RP11-34P13.14	NCF4	0.960335931	0.002328657
RP11-93O14.2	NCF4	0.940076198	0.005278704
RP11-473M20.11	NCF4	0.969433304	0.001387205
RP11-160E2.19	ANKH	0.912671972	0.011106287
RP11-78A19.3	NCF4	0.942605762	0.004846617
Z69720.3	NCF4	0.957434145	0.002679216
CCDC144NL-AS1	NCOA3	-0.922718303	0.00872791
RMRP	ANKH	0.823813348	0.043828035
CTA-315H11.2	NCOA3	-0.956498633	0.002797393
RP11-326C3.2	NCOA3	0.932488446	0.006682862
LL21NC02-21A1.1	ANKH	0.86739287	0.025211051
RP11-160E2.19	NCOA3	0.969481239	0.00138288
AC011558.5	NCOA3	0.955310182	0.002951143
CCDC144NL-AS1	PCNXL2	-0.904525617	0.013237895
CTA-315H11.2	NCOA4	-0.949429652	0.003771377
RP11-66D17.5	PCNXL2	0.894348346	0.016153752
RP11-66D17.5	NCOA4	0.947425098	0.004073519
RP11-126K1.8	NCOA4	0.975659751	0.000881461
RP3-438O4.4	NCOA4	0.991543781	0.000106959
NUP50-AS1	NCOA4	0.982589269	0.000452061
PSMD5-AS1	NCOA4	0.983726214	0.000395099
TOPORS-AS1	NCOA4	0.976108507	0.000849386
AC087294.2	NCOA4	0.998498855	3.38E-06
AP001062.8	NCOA4	0.991607288	0.000105361
RP11-455F5.3	NCOA4	0.999168344	1.04E-06
RP11-326C3.2	NCOA4	0.988761111	0.000188759
AP006621.8	NCOA4	0.986056007	0.000290297
JHDM1D-AS1	NCOA4	0.999571682	2.75E-07
RP11-20I23.6	NCOA4	0.995347934	3.24E-05
RP11-160E2.19	NCOA4	0.943072261	0.004768906
AC005786.7	NCOA4	0.988875248	0.000184952
AC005944.2	NCOA4	0.964201041	0.001899409
CTB-191K22.5	NCOA4	0.975859889	0.000867084
RP11-20I23.8	NCOA4	0.999331619	6.70E-07
CDC37L1-AS1	NCOA4	0.992850367	7.65E-05
RP5-1142A6.10	NCOA4	0.983626117	0.000399961
AC011558.5	PCNXL2	0.895871186	0.01569969
CCDC144NL-AS1	NELL2	-0.90897188	0.012052043
RP11-556I13.1	NCOA4	0.999550458	3.03E-07
RP11-66D17.5	NELL2	0.878607654	0.021209728
CCDC144NL-AS1	NCOA7	-0.946501883	0.004216516
CTA-315H11.2	NCOA7	-0.979009814	0.000656258
PSMD5-AS1	NCOA7	0.949092542	0.003821389
AC087294.2	NCOA7	0.919984918	0.009347475
RP11-455F5.3	NCOA7	0.931344957	0.006908469
RP11-326C3.2	NCOA7	0.973251251	0.001063674
AP006621.8	NCOA7	0.959863285	0.002384105
JHDM1D-AS1	NCOA7	0.932659754	0.006649379
RP11-20I23.6	NCOA7	0.940597644	0.005188155
RP11-160E2.19	NCOA7	0.98353444	0.00040444

RP11-20I23.8	NCOA7	0.935232033	0.006156487
RP5-1142A6.10	NCOA7	0.933748884	0.00643842
RP11-556I13.1	NCOA7	0.932685695	0.006644316
AC011558.5	NCOA7	0.929124881	0.007356911
AC024028.1	NCR3	0.938069132	0.005634383
RP11-473M20.11	NCR3	0.974331307	0.000979866
CTA-315H11.2	NCRNA00118	-0.959148359	0.002469197
RP11-66D17.5	NCRNA00118	0.932378361	0.006704423
RP11-126K1.8	NCRNA00118	0.963226479	0.002003573
RP3-438O4.4	NCRNA00118	0.983735035	0.000394672
AC011558.5	NELL2	0.910914395	0.011550865
NUP50-AS1	NCRNA00118	0.974507755	0.000966499
CTB-31O20.6	XRN1	-0.841265164	0.035795321
PSMD5-AS1	NCRNA00118	0.988506198	0.000197402
RP11-126K1.8	XRN1	0.887740467	0.018195945
RP3-438O4.4	XRN1	0.907478913	0.01244423
NUP50-AS1	XRN1	0.869541064	0.024419126
PSMD5-AS1	XRN1	0.905272177	0.013035027
TOPORS-AS1	XRN1	0.87719517	0.021695528
TOPORS-AS1	NCRNA00118	0.974532196	0.000964654
AP001062.8	XRN1	0.899384292	0.014675988
AC087294.2	NCRNA00118	0.994621855	4.33E-05
AP001062.8	NCRNA00118	0.983518243	0.000405234
RP11-455F5.3	NCRNA00118	0.996655921	1.68E-05
RP11-326C3.2	NCRNA00118	0.996888273	1.45E-05
RP11-20I23.6	XRN1	0.914113463	0.010747975
RP11-160E2.19	XRN1	0.883791211	0.019472054
AC005786.7	XRN1	0.884861608	0.019122088
AC005944.2	XRN1	0.835738241	0.038256839
CTB-191K22.5	XRN1	0.85466503	0.030148479
RMRP	XRN1	0.881953636	0.020079931
AP006621.8	NCRNA00118	0.99158278	0.000105976
CDC37L1-AS1	XRN1	0.911185477	0.011481744
RP5-1142A6.10	XRN1	0.885692951	0.018852379
JHDM1D-AS1	NCRNA00118	0.997347712	1.05E-05
CCDC144NL-AS1	C1QTNF6	-0.909370168	0.011948444
CTD-2531D15.5	C1QTNF6	-0.823269447	0.044090559
RP11-20I23.6	NCRNA00118	0.997964694	6.21E-06
PSMD5-AS1	C1QTNF6	0.900457119	0.014370003
AC087294.2	C1QTNF6	0.835138547	0.038528539
RP11-455F5.3	C1QTNF6	0.851765729	0.031331493
RP11-160E2.19	NCRNA00118	0.964829574	0.001833686
AP006621.8	C1QTNF6	0.909908472	0.011809112
JHDM1D-AS1	C1QTNF6	0.847379801	0.033161902
RP11-20I23.6	C1QTNF6	0.870226239	0.024169069
AC005786.7	NCRNA00118	0.98847581	0.000198445
AC005786.7	C1QTNF6	0.830829197	0.040507412
AC005944.2	C1QTNF6	0.852817201	0.03089997
RP11-20I23.8	C1QTNF6	0.854130011	0.030365166
RP5-1142A6.10	C1QTNF6	0.875966511	0.022122375
RP11-556I13.1	C1QTNF6	0.847281512	0.033203483
AC005944.2	NCRNA00118	0.967427788	0.001574145
CTB-191K22.5	NCRNA00118	0.966497204	0.001664854
RP11-20I23.8	NCRNA00118	0.998081394	5.52E-06
RP11-34P13.14	TMC4	0.906035541	0.012829158
RP11-93O14.2	TMC4	0.916822214	0.010090081
CDC37L1-AS1	NCRNA00118	0.986904914	0.000256099
RP11-473M20.11	TMC4	0.906478468	0.012710433
RP11-78A19.3	TMC4	0.912009973	0.011272747
RP5-1142A6.10	NCRNA00118	0.990089252	0.000146848
CCDC144NL-AS1	SIRPB1	-0.837578593	0.037428674
CTA-315H11.2	SIRPB1	-0.912616231	0.011120257
RP11-66D17.5	SIRPB1	0.855153251	0.029951386

RP11-126K1.8	SIRPB1	0.882572379	0.01987425
RP3-438O4.4	SIRPB1	0.906561139	0.012688332
NUP50-AS1	SIRPB1	0.913134263	0.010990755
RP11-556I13.1	NCRNA00118	0.997342464	1.06E-05
AC011558.5	NDC80	-0.933820641	0.006424638
RP11-498J9.2	NDRG1	0.973593177	0.001036773
AP001062.8	SIRPB1	0.91427013	0.010709375
RP11-93O14.2	NDRG1	0.956212368	0.002834057
RP11-485G7.6	NDRG1	0.990468375	0.000135845
RP11-78A19.3	NDRG1	0.967091207	0.001606663
Z69720.3	NDRG1	0.940944327	0.005128378
AC024028.1	NDST1	0.966173624	0.001696983
RP11-498J9.2	NDST1	0.997689497	8.00E-06
RP11-34P13.14	NDST1	0.984941096	0.000338448
RP11-93O14.2	NDST1	0.981235171	0.000524875
CTB-191K22.5	SIRPB1	0.899114189	0.014753515
RP11-485G7.6	NDST1	0.95114322	0.003522167
CDC37L1-AS1	SIRPB1	0.910793258	0.011581818
RP11-78A19.3	NDST1	0.977319179	0.000765796
Z69720.3	NDST1	0.98959307	0.000161893
CTD-2139B15.2	NDUFA8	0.944126858	0.004595499
CTD-2139B15.2	NDUFA9	0.955040833	0.002986551
CTD-2139B15.2	NDUFS5	0.943618129	0.004678756
RP11-66D17.5	NDUFV3	0.954373141	0.003075222
RP11-93O14.2	TLE6	0.903757876	0.013448096
RP11-485G7.6	TLE6	0.876926872	0.021788398
RP11-126K1.8	NDUFV3	0.947321136	0.004089501
RP11-78A19.3	TLE6	0.914459611	0.010662781
NUP50-AS1	NDUFV3	0.934783069	0.00624118
AP001062.8	NDUFV3	0.920297241	0.009275638
AC005944.2	NDUFV3	0.941056081	0.005109182
CTB-191K22.5	NDUFV3	0.950764509	0.003576524
LL21NC02-21A1.1	NDUFV3	0.964166847	0.001903017
RP11-66D17.5	NEDD4L	0.931821268	0.00681405
RP11-126K1.8	NEDD4L	0.951596257	0.00345768
RP3-438O4.4	NEDD4L	0.927163053	0.007764623
NUP50-AS1	NEDD4L	0.929252324	0.007330796
AC087294.2	NEDD4L	0.917871776	0.009840589
AP001062.8	NEDD4L	0.936853425	0.005855337
CTB-191K22.5	NEDD4L	0.92924803	0.007331675
RMRP	NEDD4L	0.936877248	0.005850967
AC024028.1	NEDD9	0.988565313	0.000195381
RP11-498J9.2	NEDD9	0.986660444	0.000265729
RP11-34P13.14	NEDD9	0.987933744	0.000217513
RP11-93O14.2	NEDD9	0.961085064	0.002242093
RP11-473M20.11	NEDD9	0.952795005	0.003289874
RP11-78A19.3	NEDD9	0.961269119	0.002221072
Z69720.3	NEDD9	0.976693842	0.000808436
RP11-160E2.19	NEK3	-0.930219031	0.00713418
RP11-77G23.2	NEK4	0.934324799	0.006328212
AC024028.1	NEK6	0.988461845	0.000198926
RP11-498J9.2	NEK6	0.991972495	9.64E-05
RP11-34P13.14	NEK6	0.968610582	0.001462479
RP11-93O14.2	NEK6	0.95795198	0.002614883
RP11-34P13.14	F2RL1	0.904135524	0.013344499
RP11-93O14.2	F2RL1	0.86333523	0.026739627
RP11-485G7.6	F2RL1	0.82465833	0.043421638
RP11-485G7.6	NEK6	0.937578081	0.005723131
RP11-78A19.3	F2RL1	0.878108465	0.021380815
Z69720.3	F2RL1	0.882306293	0.019962578
RP11-473M20.11	NEK6	0.957597508	0.002658838
RP11-156P1.3	PTPRF	-0.815870571	0.04773414
RP11-78A19.3	NEK6	0.963059991	0.002021643

RP11-66D17.5	PTPRF	0.897241524	0.015296427
Z69720.3	NEK6	0.970361241	0.001304666
CTA-315H11.2	NELL2	-0.970690398	0.00127599
RP11-126K1.8	NELL2	0.926347221	0.007937325
RP3-438O4.4	NELL2	0.945733011	0.004337454
TOPORS-AS1	PTPRF	0.91001795	0.011780872
NUP50-AS1	NELL2	0.938631793	0.005533527
PSMD5-AS1	NELL2	0.984481515	0.000359366
TOPORS-AS1	NELL2	0.94600642	0.004294256
AC087294.2	NELL2	0.968355651	0.001486203
AP001062.8	NELL2	0.949704115	0.003730898
RP11-455F5.3	NELL2	0.974811566	0.000943695
RP11-326C3.2	NELL2	0.997213991	1.16E-05
AP006621.8	NELL2	0.989695446	0.000158729
JHDM1D-AS1	NELL2	0.974478654	0.000968697
RP11-20I23.6	NELL2	0.983204965	0.000420741
RP11-160E2.19	NELL2	0.99221091	9.08E-05
AC005786.7	NELL2	0.964377374	0.001880855
AC005944.2	NELL2	0.955281353	0.002954923
CTB-191K22.5	NELL2	0.928099175	0.007568739
RP11-20I23.8	NELL2	0.977218602	0.000772576
AC011558.5	PTPRF	0.834565677	0.038788927
CDC37L1-AS1	NELL2	0.95221392	0.003370704
RP5-1142A6.10	NELL2	0.980620212	0.000559725
RP11-556I13.1	NELL2	0.974460707	0.000970054
RP5-1033H22.2	NEO1	0.97754076	0.000750962
RP11-21J18.1	NEO1	0.929768784	0.007225431
RP11-298J23.8	NEO1	0.970579422	0.001285623
RP11-165D6.1	NEO1	0.979780581	0.000609104
AC024028.1	NEU4	0.973233703	0.001065064
RP11-498J9.2	NEU4	0.999151815	1.08E-06
RP11-34P13.14	NEU4	0.980463514	0.000568783
RP11-93O14.2	NEU4	0.976520818	0.000820436
RP11-485G7.6	NEU4	0.955177458	0.002968565
RP11-473M20.11	NEU4	0.927746379	0.007642275
RP11-78A19.3	NEU4	0.977061074	0.000783256
Z69720.3	NEU4	0.986852498	0.000258149
PSMD5-AS1	NFAM1	0.942402707	0.004880634
CCDC144NL-AS1	NINJ2	-0.864229555	0.026399051
TOPORS-AS1	NFAM1	0.918188769	0.009765832
RP11-455F5.3	NFAM1	0.917532866	0.00992082
RP11-326C3.2	NFAM1	0.959116055	0.002473077
AP006621.8	NFAM1	0.945823872	0.004323074
RP11-20I23.6	NFAM1	0.943296116	0.004731835
RP11-160E2.19	NFAM1	0.987374653	0.000238093
AC005786.7	NFAM1	0.929544423	0.007271112
AC005944.2	NFAM1	0.927067786	0.007784695
RP11-20I23.8	NFAM1	0.922289046	0.008823841
RP5-1142A6.10	NFAM1	0.960788334	0.002276187
AC011558.5	NFAM1	0.964989932	0.001817101
AC024028.1	NFATC4	0.943739871	0.004658766
RP11-498J9.2	NFATC4	0.996210777	2.15E-05
RP11-34P13.14	NFATC4	0.982496555	0.000456875
RP11-93O14.2	NFATC4	0.99274171	7.88E-05
RP11-485G7.6	NFATC4	0.967366174	0.001580073
RP11-78A19.3	NFATC4	0.988658272	0.000192223
LA16c-359F1.1	NFATC4	0.922533349	0.008769181
RMRP	NINJ2	0.817149228	0.047094854
Z69720.3	NFATC4	0.989330533	0.000170149
LLNLR-284B4.1	NFIA	-0.954726577	0.003028126
LL21NC02-21A1.1	NINJ2	0.840505196	0.036129227
CTD-2541M15.3	NFIA	0.937534072	0.005731117
LL21NC02-21A1.1	NFIC	-0.942821824	0.004810548

CCDC144NL-AS1	EPHX2	-0.904998281	0.013109279
AC024028.1	NFIL3	0.982434662	0.000460102
RP11-66D17.5	EPHX2	0.894744136	0.016035141
RP11-498J9.2	NFIL3	0.995019367	3.71E-05
RP11-34P13.14	NFIL3	0.986600035	0.000268136
RP11-93O14.2	NFIL3	0.972704797	0.001107374
RP11-485G7.6	NFIL3	0.937132143	0.005804313
RP11-473M20.11	NFIL3	0.942541969	0.004857291
RP11-78A19.3	NFIL3	0.975061629	0.000925129
Z69720.3	NFIL3	0.982411956	0.000461289
AC011558.5	NFKB2	0.934488072	0.006297137
AC024028.1	NFKBIA	0.976478193	0.000823406
RP11-498J9.2	NFKBIA	0.995465644	3.08E-05
RP11-34P13.14	NFKBIA	0.966030154	0.001711326
RP11-93O14.2	NFKBIA	0.970127848	0.00132519
RP11-485G7.6	NFKBIA	0.958453363	0.002553327
RP11-473M20.11	NFKBIA	0.940289042	0.005241651
RP11-78A19.3	NFKBIA	0.976749608	0.000804587
Z69720.3	NFKBIA	0.970315249	0.001308698
AC024028.1	NFKBIZ	0.986194973	0.000284553
RP11-498J9.2	NFKBIZ	0.993417136	6.49E-05
RP11-34P13.14	NFKBIZ	0.982511002	0.000456123
RP11-93O14.2	NFKBIZ	0.970613787	0.001282636
AC011558.5	EPHX2	0.888520707	0.017948737
RP11-485G7.6	NFKBIZ	0.93449737	0.006295369
RP11-473M20.11	NFKBIZ	0.950414799	0.003627081
RP11-34P13.14	SLC2A9	0.882936504	0.019753682
RP11-93O14.2	SLC2A9	0.900900739	0.014244385
RP11-78A19.3	NFKBIZ	0.974362152	0.000977523
RP11-473M20.11	SLC2A9	0.893485133	0.016413898
RP11-78A19.3	SLC2A9	0.904273826	0.013306657
Z69720.3	NFKBIZ	0.975172717	0.000916939
AC024028.1	NCALD	0.843263497	0.034924277
RP11-473M20.11	NCALD	0.90863105	0.012141041
CTD-2531D15.5	NCALD	-0.843619386	0.034770209
CTD-2139B15.2	NCALD	-0.836626121	0.037856228
AC011558.5	NCALD	0.882193303	0.020000142
CTA-315H11.2	CEACAM4	-0.883770802	0.019478756
RP11-66D17.5	CEACAM4	0.888193873	0.018052093
RP11-126K1.8	CEACAM4	0.894356209	0.016151391
CTD-2139B15.2	NHLRC1	0.967712952	0.001546851
CTA-315H11.2	NIN	-0.969237789	0.001404915
PSMD5-AS1	NIN	0.95415383	0.003104626
AC087294.2	NIN	0.928128329	0.007562678
RP11-455F5.3	NIN	0.936799629	0.00586521
RP11-326C3.2	NIN	0.978315891	0.000700203
AP006621.8	NIN	0.962493234	0.002083755
JHDM1D-AS1	NIN	0.939665075	0.005350636
RP11-20I23.6	NIN	0.952744969	0.003296796
RP11-160E2.19	NIN	0.994559193	4.43E-05
AC005786.7	NIN	0.925919027	0.008028708
RP11-20I23.8	NIN	0.942932104	0.004792189
RP5-1142A6.10	NIN	0.952361223	0.003350123
RP11-556I13.1	NIN	0.93973962	0.005337558
AC011558.5	NIN	0.948244063	0.003948697
AC024028.1	NINJ1	0.985731441	0.000303935
RP11-498J9.2	NINJ1	0.968309627	0.001490507
RP11-34P13.14	NINJ1	0.927436161	0.007707223
RP11-473M20.11	NINJ1	0.970231374	0.001316067
AC011558.5	CEACAM4	0.915491476	0.010410769
CTA-315H11.2	FCGR3A	-0.908162333	0.012263949
RP11-78A19.3	NINJ1	0.921784964	0.008937144
Z69720.3	NINJ1	0.935272477	0.006148885

CTA-315H11.2	NINJ2	-0.937936544	0.005658279
RP11-66D17.5	NINJ2	0.960820442	0.002272486
RP11-126K1.8	NINJ2	0.985012356	0.000335261
RP3-438O4.4	NINJ2	0.993012209	7.31E-05
NUP50-AS1	NINJ2	0.989679873	0.000159208
PSMD5-AS1	NINJ2	0.982730504	0.000444778
TOPORS-AS1	NINJ2	0.975567441	0.000888132
AC087294.2	NINJ2	0.999218929	9.15E-07
AP001062.8	NINJ2	0.996718913	1.61E-05
RP11-455F5.3	NINJ2	0.999103841	1.20E-06
RP11-326C3.2	NINJ2	0.981733586	0.000497445
AP006621.8	NINJ2	0.983337935	0.000414124
JHDM1D-AS1	NINJ2	0.998045805	5.72E-06
RP11-20I23.6	NINJ2	0.99267448	8.03E-05
RP11-160E2.19	NINJ2	0.930233432	0.007131271
AC005786.7	NINJ2	0.989298773	0.000171162
AC005944.2	NINJ2	0.968570733	0.001466175
LL21NC02-21A1.1	FCGR3A	0.873534724	0.02297889
CTB-191K22.5	NINJ2	0.984641224	0.000352026
RP11-20I23.8	NINJ2	0.997849346	6.93E-06
CCDC144NL-AS1	PI3	-0.912918554	0.01104459
CDC37L1-AS1	NINJ2	0.992800624	7.76E-05
RP11-66D17.5	PI3	0.8210488	0.045169973
RP11-126K1.8	PI3	0.881272009	0.020307689
RP3-438O4.4	PI3	0.899502621	0.014642087
NUP50-AS1	PI3	0.894250926	0.016183011
RP5-1142A6.10	NINJ2	0.980431967	0.000570615
TOPORS-AS1	PI3	0.907352392	0.012477745
RP11-556I13.1	NINJ2	0.997983264	6.10E-06
AP001062.8	PI3	0.906731108	0.012642952
AC024028.1	NIPAL4	0.963518216	0.001972104
RP11-498J9.2	NIPAL4	0.999980382	5.77E-10
RP11-34P13.14	NIPAL4	0.978060777	0.000716714
RP11-93O14.2	NIPAL4	0.983001858	0.00043095
RP11-485G7.6	NIPAL4	0.96637985	0.001676471
RP11-78A19.3	NIPAL4	0.983493512	0.000406447
Z69720.3	NIPAL4	0.986587629	0.000268631
CTD-2531D15.5	NLE1	0.954242771	0.003092685
CTB-191K22.5	PI3	0.881919857	0.020091189
RP11-770G2.2	NLE1	0.991874969	9.88E-05
CDC37L1-AS1	PI3	0.908539424	0.01216502
CTA-315H11.2	NLRC5	-0.95660622	0.002783674
RP11-66D17.5	NLRC5	0.923291666	0.00860057
RP11-126K1.8	NLRC5	0.958982019	0.002489206
CCDC144NL-AS1	ARHGEF11	-0.844423558	0.034423255
RP3-438O4.4	NLRC5	0.967411251	0.001575735
RP11-126K1.8	ARHGEF11	0.82198854	0.044711699
RP3-438O4.4	ARHGEF11	0.89996871	0.014508919
NUP50-AS1	ARHGEF11	0.852582542	0.030996029
PSMD5-AS1	ARHGEF11	0.906402032	0.012730883
TOPORS-AS1	ARHGEF11	0.893829139	0.016309985
AC087294.2	ARHGEF11	0.907436049	0.01245558
AP001062.8	ARHGEF11	0.870754987	0.023976938
RP11-455F5.3	ARHGEF11	0.911441984	0.011416524
NUP50-AS1	NLRC5	0.969681163	0.001364913
PSMD5-AS1	NLRC5	0.99498209	3.77E-05
TOPORS-AS1	NLRC5	0.965644596	0.001750166
AC087294.2	NLRC5	0.986412124	0.000275691
AP001062.8	NLRC5	0.976270666	0.000837941
AC005786.7	ARHGEF11	0.905922995	0.012859411
AC005944.2	ARHGEF11	0.865316606	0.025987872
CTB-191K22.5	ARHGEF11	0.840950384	0.035933449
RP11-455F5.3	NLRC5	0.990465594	0.000135924

CDC37L1-AS1	ARHGEF11	0.916048651	0.010275906
RP11-326C3.2	NLRC5	0.997672361	8.12E-06
AP006621.8	NLRC5	0.996833437	1.50E-05
AC011558.5	ARHGEF11	0.902352109	0.013837124
JHDM1D-AS1	NLRC5	0.987974877	0.000216036
RP11-498J9.2	SBF2	0.876935463	0.021785421
RP11-34P13.14	SBF2	0.860955548	0.027655941
RP11-93O14.2	SBF2	0.825018978	0.043248721
RP11-20I23.6	NLRC5	0.994465002	4.59E-05
RP11-78A19.3	SBF2	0.851881735	0.031283746
Z69720.3	SBF2	0.821274889	0.04505952
CCDC144NL-AS1	NBPF14	-0.870777127	0.023968909
CTA-315H11.2	NBPF14	-0.89914379	0.014745009
CTD-2139B15.2	NBPF14	-0.821394166	0.045001299
PSMD5-AS1	NBPF14	0.848704928	0.032603711
RP11-326C3.2	NBPF14	0.880179353	0.020675349
AP006621.8	NBPF14	0.861262549	0.027536906
RP11-20I23.6	NBPF14	0.825771417	0.042888992
RP11-160E2.19	NLRC5	0.978606258	0.000681642
RP5-1142A6.10	NBPF14	0.833758306	0.039157298
AC005786.7	NLRC5	0.983463558	0.00040792
AC005944.2	NLRC5	0.97721478	0.000772835
RP11-498J9.2	S100Z	0.876400295	0.021971221
RP11-34P13.14	S100Z	0.870546776	0.024052508
CTB-191K22.5	NLRC5	0.961582964	0.002185454
RP11-78A19.3	S100Z	0.823712465	0.043876672
Z69720.3	S100Z	0.83820441	0.037148992
CCDC144NL-AS1	SARDH	-0.910388058	0.011685645
RP11-20I23.8	NLRC5	0.990543169	0.000133725
RP11-66D17.5	SARDH	0.86089723	0.027678581
RP11-126K1.8	SARDH	0.912147315	0.011238114
CDC37L1-AS1	NLRC5	0.970286326	0.001311237
RP5-1142A6.10	NLRC5	0.991524422	0.000107449
RP11-556I13.1	NLRC5	0.987895044	0.000218908
CTA-315H11.2	NLRP12	-0.94850135	0.003909876
RP11-66D17.5	NLRP12	0.937727284	0.005696093
RP11-126K1.8	NLRP12	0.961289431	0.002218758
RP3-438O4.4	NLRP12	0.985079454	0.000332273
NUP50-AS1	NLRP12	0.977426787	0.000758574
PSMD5-AS1	NLRP12	0.987071212	0.00024965
TOPORS-AS1	NLRP12	0.981512552	0.000509519
AC087294.2	NLRP12	0.994725155	4.17E-05
AP001062.8	NLRP12	0.984079352	0.000378183
RP11-455F5.3	NLRP12	0.995848876	2.58E-05
RP11-326C3.2	NLRP12	0.995867886	2.56E-05
CTB-191K22.5	SARDH	0.914068371	0.010759097
AP006621.8	NLRP12	0.989446576	0.000166474
JHDM1D-AS1	NLRP12	0.996673004	1.66E-05
RP11-20I23.6	NLRP12	0.999546495	3.08E-07
RP11-160E2.19	NLRP12	0.965230506	0.00179236
AC005786.7	NLRP12	0.992923119	7.49E-05
RP11-473M20.11	LRRK1	0.872254099	0.023436179
CTD-2139B15.2	LRRK1	-0.814270793	0.048539611
CTD-2541M15.3	LRRK1	-0.818372518	0.046487
RP11-160E2.19	LRRK1	0.865638892	0.025866557
AC005944.2	NLRP12	0.970195201	0.001319251
CCDC144NL-AS1	JHDM1D	-0.894243175	0.01618534
CTB-191K22.5	NLRP12	0.968552489	0.001467869
RP11-20I23.8	NLRP12	0.997661276	8.20E-06
CDC37L1-AS1	NLRP12	0.98732107	0.000240114
RP5-1142A6.10	NLRP12	0.994855473	3.96E-05
RP11-556I13.1	NLRP12	0.996675867	1.66E-05
RMRP	NLRP2	-0.945907653	0.004309836

AC024028.1	NLRP3	0.969416974	0.00138868
RP11-498J9.2	NLRP3	0.999777761	7.41E-08
RP11-34P13.14	NLRP3	0.97807948	0.000715497
RP11-93O14.2	NLRP3	0.979836842	0.000605731
RP11-485G7.6	NLRP3	0.961429803	0.0022028
RP11-473M20.11	NLRP3	0.922605255	0.008753125
RP11-78A19.3	NLRP3	0.98059112	0.000561401
Z69720.3	NLRP3	0.985185735	0.000327568
CTA-315H11.2	NLRP6	-0.960815597	0.002273044
RP11-66D17.5	NLRP6	0.924662776	0.00829975
RP11-126K1.8	NLRP6	0.958497553	0.002547937
RP3-438O4.4	NLRP6	0.978917174	0.000662043
NUP50-AS1	NLRP6	0.970200259	0.001318805
PSMD5-AS1	NLRP6	0.988990579	0.000181144
TOPORS-AS1	NLRP6	0.972576239	0.001117782
AC087294.2	NLRP6	0.9917947	0.000100714
AC011558.5	JHDM1D	0.825988399	0.042785517
CCDC144NL-AS1	CLEC4E	-0.900407213	0.014384168
AP001062.8	NLRP6	0.97946036	0.000628483
RP11-66D17.5	CLEC4E	0.88963433	0.017598713
RP11-455F5.3	NLRP6	0.994546536	4.45E-05
RP11-326C3.2	NLRP6	0.998550675	3.15E-06
AP006621.8	NLRP6	0.99253301	8.34E-05
JHDM1D-AS1	NLRP6	0.995012858	3.72E-05
RP11-20I23.6	NLRP6	0.997176769	1.19E-05
RP11-160E2.19	NLRP6	0.97071391	0.001273954
AC005786.7	NLRP6	0.986345336	0.000278402
AC005944.2	NLRP6	0.966228409	0.001691522
CTB-191K22.5	NLRP6	0.961183919	0.00223079
RP11-20I23.8	NLRP6	0.996067635	2.32E-05
CDC37L1-AS1	NLRP6	0.982203612	0.000472249
RP5-1142A6.10	NLRP6	0.990554158	0.000133415
RP11-556I13.1	NLRP6	0.995004806	3.74E-05
CTB-31O20.6	NME1-NME2	0.983461287	0.000408032
RP3-337H4.8	NMU	0.92207611	0.008871617
AC024028.1	NOD2	0.982347311	0.000464676
RP11-498J9.2	NOD2	0.996362356	1.98E-05
RP11-34P13.14	NOD2	0.973487257	0.00104507
RP11-93O14.2	NOD2	0.968708773	0.001453392
RP11-485G7.6	NOD2	0.948263347	0.003945781
AC011558.5	CLEC4E	0.907718852	0.012380791
CCDC144NL-AS1	C5orf4	-0.854943627	0.030035936
RP11-473M20.11	NOD2	0.94521365	0.004420094
RP11-78A19.3	NOD2	0.971974991	0.001167096
Z69720.3	NOD2	0.976516669	0.000820725
CTA-315H11.2	NOG	-0.953350535	0.0032135
RP11-66D17.5	NOG	0.941572291	0.005020966
RP11-126K1.8	NOG	0.968481211	0.001474495
RP3-438O4.4	NOG	0.989170065	0.000175296
NUP50-AS1	NOG	0.979482915	0.000627108
PSMD5-AS1	NOG	0.986157712	0.000286087
TOPORS-AS1	NOG	0.977828656	0.000731903
AC087294.2	NOG	0.997340761	1.06E-05
AP001062.8	NOG	0.987998783	0.00021518
RP11-455F5.3	NOG	0.998359468	4.03E-06
RP11-326C3.2	NOG	0.993522459	6.28E-05
RP11-160E2.19	C5orf4	0.915362937	0.010442003
AP006621.8	NOG	0.988739255	0.000189493
JHDM1D-AS1	NOG	0.999282453	7.72E-07
RP11-20I23.6	NOG	0.998037541	5.77E-06
RMRP	C5orf4	0.83182695	0.040045112
RP11-160E2.19	NOG	0.955373674	0.002942827
AC005786.7	NOG	0.99070921	0.000129077

LL21NC02-21A1.1	C5orf4	0.851595163	0.03140176
AC005944.2	NOG	0.96698785	0.001616715
CTB-191K22.5	NOG	0.97207073	0.001159173
RP11-20I23.8	NOG	0.999553702	2.99E-07
CDC37L1-AS1	NOG	0.99156954	0.000106309
RP5-1142A6.10	NOG	0.988972369	0.000181742
RP11-556I13.1	NOG	0.999280099	7.77E-07
CTA-315H11.2	NOS3	-0.938768698	0.005509122
RP11-66D17.5	NOS3	0.944181113	0.004586663
RP11-126K1.8	NOS3	0.974640465	0.000956505
RP3-438O4.4	NOS3	0.990516228	0.000134486
NUP50-AS1	NOS3	0.979787222	0.000608706
PSMD5-AS1	NOS3	0.975274746	0.00090945
TOPORS-AS1	NOS3	0.976614332	0.000813939
AC087294.2	NOS3	0.995764376	2.69E-05
AP001062.8	NOS3	0.989672558	0.000159433
RP11-455F5.3	NOS3	0.996056601	2.33E-05
RP11-326C3.2	NOS3	0.982634111	0.000449743
AP006621.8	NOS3	0.978488555	0.000689136
JHDM1D-AS1	NOS3	0.996624516	1.71E-05
RP11-20I23.6	NOS3	0.990329445	0.000139827
RP11-160E2.19	NOS3	0.930077284	0.007162847
AC005786.7	NOS3	0.98472632	0.000348146
AC005944.2	NOS3	0.95225092	0.003365529
CTB-191K22.5	NOS3	0.97084963	0.001262231
RP11-20I23.8	NOS3	0.995662616	2.82E-05
CDC37L1-AS1	NOS3	0.989634168	0.000160619
RP11-93O14.2	TNFRSF8	0.887938466	0.018133059
RP11-485G7.6	TNFRSF8	0.865651777	0.025861712
RP5-1142A6.10	NOS3	0.977512488	0.000752846
RP11-78A19.3	TNFRSF8	0.899453325	0.014656206
Z69720.3	TNFRSF8	0.914166248	0.010734962
CCDC144NL-AS1	ZNF815	-0.866860579	0.025409136
RP11-556I13.1	NOS3	0.996606315	1.73E-05
RP11-66D17.5	ZNF815	0.893406686	0.016437638
RP11-66D17.5	NOSIP	0.984413991	0.000362492
RP11-126K1.8	NOSIP	0.966261834	0.001688194
RP3-438O4.4	NOSIP	0.952568714	0.003321237
NUP50-AS1	NOSIP	0.985969153	0.000293916
PSMD5-AS1	NOSIP	0.957029257	0.002730055
TOPORS-AS1	NOSIP	0.955759342	0.002892559
AC087294.2	NOSIP	0.961331916	0.002213922
AP001062.8	NOSIP	0.973593914	0.001036716
RP11-455F5.3	NOSIP	0.957591555	0.002659579
RP11-326C3.2	NOSIP	0.930141022	0.00714995
AP006621.8	NOSIP	0.946875112	0.004158415
JHDM1D-AS1	NOSIP	0.94959739	0.003746613
RP11-20I23.6	NOSIP	0.95873	0.002519674
AC005786.7	NOSIP	0.973560926	0.001039296
AC005944.2	NOSIP	0.985852529	0.000298811
CTB-191K22.5	NOSIP	0.986786489	0.000260742
RP11-20I23.8	NOSIP	0.953442521	0.003200939
CDC37L1-AS1	NOSIP	0.947719519	0.004028425
LL21NC02-21A1.1	NOSIP	0.918071685	0.009793412
RP5-1142A6.10	NOSIP	0.964311711	0.001887754
AC011558.5	ZNF815	0.898041988	0.015063205
CCDC144NL-AS1	MBNL3	-0.866966488	0.025369665
RP11-556I13.1	NOSIP	0.949373622	0.003779667
CTA-315H11.2	NPAS2	-0.96949999	0.00138119
RP11-126K1.8	NPAS2	0.940327013	0.005235054
RP3-438O4.4	NPAS2	0.960142361	0.002351288
NUP50-AS1	NPAS2	0.952365391	0.003349541
PSMD5-AS1	NPAS2	0.98827349	0.00020546

TOPORS-AS1	NPAS2	0.957435371	0.002679063
AC087294.2	NPAS2	0.979112817	0.000649855
AP001062.8	NPAS2	0.96279611	0.002050447
RP11-455F5.3	NPAS2	0.984183774	0.000373251
RP11-326C3.2	NPAS2	0.999651549	1.82E-07
AP006621.8	NPAS2	0.992815332	7.72E-05
JHDM1D-AS1	NPAS2	0.984175552	0.000373638
RP11-20I23.6	NPAS2	0.990384342	0.000138247
RP11-160E2.19	NPAS2	0.986134492	0.000287046
AC005786.7	NPAS2	0.974471408	0.000969245
AC005944.2	NPAS2	0.961613979	0.002181949
CTB-191K22.5	NPAS2	0.9426154	0.004845005
RP11-20I23.8	NPAS2	0.986293774	0.000280504
CDC37L1-AS1	NPAS2	0.965604486	0.001754231
LL21NC02-21A1.1	MBNL3	0.816978257	0.047180102
RP5-1142A6.10	NPAS2	0.986142997	0.000286694
RP11-556I13.1	NPAS2	0.984161647	0.000374294
AC011558.5	NPDC1	0.967389027	0.001577873
CTA-315H11.2	NPEPL1	-0.955658458	0.002905667
PSMD5-AS1	NPEPL1	0.958957737	0.002492134
AC087294.2	NPEPL1	0.930856828	0.007005888
RP11-66D17.5	CARNS1	0.858607584	0.028574378
RP11-126K1.8	CARNS1	0.91660893	0.010141152
RP11-455F5.3	NPEPL1	0.938510644	0.005555167
RP11-326C3.2	NPEPL1	0.978589135	0.00068273
AP006621.8	NPEPL1	0.964970682	0.001819088
JHDM1D-AS1	NPEPL1	0.940076959	0.005278571
RP11-20I23.6	NPEPL1	0.957340251	0.002690964
RP11-160E2.19	NPEPL1	0.998508076	3.34E-06
AC005786.7	NPEPL1	0.935138242	0.006174133
AC005944.2	NPEPL1	0.930887922	0.006999663
RP11-20I23.8	NPEPL1	0.944312999	0.004565219
RP5-1142A6.10	NPEPL1	0.9621004	0.00212735
RP11-556I13.1	NPEPL1	0.940123981	0.005270375
AC011558.5	NPEPL1	0.955945958	0.002868389
CTA-315H11.2	NPL	-0.917394013	0.009953782
RP11-66D17.5	NPL	0.961409909	0.002205059
CTB-191K22.5	CARNS1	0.914042763	0.010765416
RP11-126K1.8	NPL	0.975456153	0.000896208
RP3-438O4.4	NPL	0.997414531	1.00E-05
NUP50-AS1	NPL	0.982842101	0.000439065
PSMD5-AS1	NPL	0.958783359	0.002513208
AC011558.5	CARNS1	0.906529714	0.012696731
CCDC144NL-AS1	DNAH1	-0.877216951	0.021687997
CTA-315H11.2	DNAH1	-0.904594311	0.013219165
PSMD5-AS1	DNAH1	0.886169617	0.018698564
AC087294.2	DNAH1	0.816335833	0.047501061
RP11-455F5.3	DNAH1	0.832661689	0.039660252
RP11-326C3.2	DNAH1	0.90361354	0.013487793
AP006621.8	DNAH1	0.894732161	0.016038724
JHDM1D-AS1	DNAH1	0.828692126	0.041505948
RP11-20I23.6	DNAH1	0.856471411	0.029422307
TOPORS-AS1	NPL	0.975159768	0.000917892
AC005786.7	DNAH1	0.818368387	0.046489047
AC005944.2	DNAH1	0.844311578	0.03447147
RP11-20I23.8	DNAH1	0.836367472	0.037972726
RP5-1142A6.10	DNAH1	0.867257975	0.025261181
RP11-556I13.1	DNAH1	0.828613144	0.04154307
AC087294.2	NPL	0.993419577	6.48E-05
CCDC144NL-AS1	MOSPD1	-0.837967027	0.037254964
CTA-315H11.2	MOSPD1	-0.881100412	0.02036522
AP001062.8	NPL	0.990954875	0.000122351
RP11-455F5.3	NPL	0.990361689	0.000138898

RP11-326C3.2	NPL	0.963821473	0.001939652
AP006621.8	NPL	0.960224279	0.002341697
JHDM1D-AS1	NPL	0.992729519	7.91E-05
RP11-20I23.6	NPL	0.981694902	0.000499548
AC005786.7	NPL	0.982306954	0.000466796
AC005944.2	NPL	0.943799797	0.004648941
CTB-191K22.5	NPL	0.977366879	0.00076259
RP11-20I23.8	NPL	0.990532895	0.000134015
CDC37L1-AS1	NPL	0.996402692	1.94E-05
RP5-1142A6.10	NPL	0.965721388	0.001742396
RP11-556I13.1	NPL	0.992749474	7.87E-05
RP11-160E2.19	MOSPD1	0.845269711	0.034059959
AC024028.1	NPM2	0.921577499	0.00898398
RP11-498J9.2	NPM2	0.987925498	0.00021781
RP11-34P13.14	NPM2	0.978078427	0.000715566
RMRP	MOSPD1	0.887146195	0.01838532
RP11-93O14.2	NPM2	0.985302014	0.000322459
RP11-485G7.6	NPM2	0.963348026	0.001990432
LL21NC02-21A1.1	MOSPD1	0.878749759	0.021161144
RP11-78A19.3	NPM2	0.976736347	0.000805501
LA16c-359F1.1	NPM2	0.924885287	0.008251423
CCDC144NL-AS1	SGIP1	-0.873931669	0.02283802
Z69720.3	NPM2	0.994300019	4.86E-05
RP11-485G7.6	NPR3	0.932316515	0.00671655
CTA-315H11.2	NPRL3	-0.92389202	0.008468212
RP11-66D17.5	NPRL3	0.974179488	0.000991441
RP11-126K1.8	NPRL3	0.988569563	0.000195236
RP3-438O4.4	NPRL3	0.994391806	4.71E-05
NUP50-AS1	NPRL3	0.995112767	3.58E-05
PSMD5-AS1	NPRL3	0.979422849	0.000630772
TOPORS-AS1	NPRL3	0.976167616	0.000845206
AC087294.2	NPRL3	0.998371552	3.98E-06
AP001062.8	NPRL3	0.999202036	9.55E-07
RP11-455F5.3	NPRL3	0.996843975	1.49E-05
RP11-326C3.2	NPRL3	0.973653308	0.001032078
AP006621.8	NPRL3	0.978000153	0.000720666
JHDM1D-AS1	NPRL3	0.995241659	3.39E-05
RP11-20I23.6	NPRL3	0.990013984	0.000149083
RP11-160E2.19	NPRL3	0.91905974	0.009561856
AC005786.7	NPRL3	0.990750592	0.000127932
AC005944.2	NPRL3	0.973277915	0.001061564
CTB-191K22.5	NPRL3	0.992168222	9.18E-05
RP11-20I23.8	NPRL3	0.995202271	3.45E-05
CDC37L1-AS1	NPRL3	0.993565246	6.20E-05
AC011558.5	SGIP1	0.825726164	0.042910587
CCDC144NL-AS1	PRKCZ	-0.895989923	0.015664549
RP5-1142A6.10	NPRL3	0.978700728	0.000675657
RP11-66D17.5	PRKCZ	0.849208064	0.032392943
RP11-126K1.8	PRKCZ	0.896624546	0.015477367
RP11-556I13.1	NPRL3	0.995163893	3.50E-05
NUP50-AS1	PRKCZ	0.915372379	0.010439707
AC024028.1	NR4A1	0.946284138	0.004250595
RP11-498J9.2	NR4A1	0.991236431	0.000114864
RP11-34P13.14	NR4A1	0.992888865	7.57E-05
RP11-93O14.2	NR4A1	0.986961527	0.000253894
RP11-485G7.6	NR4A1	0.945192138	0.004423534
RP11-78A19.3	NR4A1	0.980043487	0.00059342
Z69720.3	NR4A1	0.994553476	4.44E-05
AC024028.1	NR4A2	0.941022425	0.005114959
RP11-498J9.2	NR4A2	0.986438018	0.000274644
RP11-34P13.14	NR4A2	0.994349305	4.78E-05
RP11-93O14.2	NR4A2	0.985337667	0.0003209
RP11-485G7.6	NR4A2	0.936201423	0.005975549

CTB-191K22.5	PRKCZ	0.902209053	0.013877013
RP11-78A19.3	NR4A2	0.976734749	0.000805611
Z69720.3	NR4A2	0.993192369	6.94E-05
AC024028.1	NR4A3	0.962238009	0.002112028
RP11-498J9.2	NR4A3	0.999801084	5.93E-08
RP11-34P13.14	NR4A3	0.981727532	0.000497774
CCDC144NL-AS1	NPL	-0.83628203	0.038011247
RP11-93O14.2	NR4A3	0.985075383	0.000332454
RP11-485G7.6	NR4A3	0.963912475	0.001929966
RP11-78A19.3	NR4A3	0.984365403	0.00036475
Z69720.3	NR4A3	0.988726388	0.000189925
AC024028.1	NRBP2	0.922944589	0.008677545
RP11-473M20.11	NRBP2	0.970818715	0.001264896
RP11-66D17.5	NRD1	0.975096381	0.000922563
RP11-126K1.8	NRD1	0.999284754	7.67E-07
RP3-438O4.4	NRD1	0.965782784	0.001736196
NUP50-AS1	NRD1	0.986540728	0.000270509
PSMD5-AS1	NRD1	0.967103306	0.001605488
TOPORS-AS1	NRD1	0.93257995	0.006664967
AC087294.2	NRD1	0.976320557	0.000834435
AP001062.8	NRD1	0.989182623	0.000174891
RP11-160E2.19	NPL	0.897443343	0.015237463
RP11-455F5.3	NRD1	0.97628387	0.000837013
RP11-326C3.2	NRD1	0.938988256	0.005470093
AP006621.8	NRD1	0.961641995	0.002178786
RMRP	NPL	0.840943399	0.035936517
JHDM1D-AS1	NRD1	0.968009526	0.001518716
RP11-20I23.6	NRD1	0.957940655	0.002616282
LL21NC02-21A1.1	NPL	0.845580489	0.033926982
AC005786.7	NRD1	0.959155565	0.002468332
AC005944.2	NRD1	0.968299316	0.001491472
CCDC144NL-AS1	TCP11L2	-0.874187616	0.022747407
CTB-191K22.5	NRD1	0.990856254	0.00012503
RP11-20I23.8	NRD1	0.968743195	0.001450213
CDC37L1-AS1	NRD1	0.962965805	0.002031901
RP5-1142A6.10	NRD1	0.940614795	0.00518519
RP11-556I13.1	NRD1	0.967743065	0.001543983
AC024028.1	NRG1	0.964355341	0.001883169
RP11-498J9.2	NRG1	1	0
RP11-34P13.14	NRG1	0.978552256	0.000685076
RP11-93O14.2	NRG1	0.982998398	0.000431125
RP11-485G7.6	NRG1	0.965304842	0.001784749
RP11-78A19.3	NRG1	0.983256999	0.000418145
Z69720.3	NRG1	0.986539728	0.000270549
AC024028.1	NRIP3	0.94939756	0.003776124
RP11-498J9.2	NRIP3	0.995225517	3.41E-05
RP11-34P13.14	NRIP3	0.976633091	0.000812639
RP11-93O14.2	NRIP3	0.975626294	0.000883876
RP11-485G7.6	NRIP3	0.965292409	0.001786021
RP11-78A19.3	NRIP3	0.975075855	0.000924078
Z69720.3	NRIP3	0.994051535	5.30E-05
RP11-66D17.5	NRP2	0.986919373	0.000255535
LL21NC02-21A1.1	TCP11L2	0.8137721	0.048791977
RP11-126K1.8	NRP2	0.961791375	0.002161958
RP3-438O4.4	NRP2	0.95094318	0.003550828
AC011558.5	TCP11L2	0.812434177	0.049472036
NUP50-AS1	NRP2	0.984102312	0.000377096
PSMD5-AS1	NRP2	0.947129466	0.004119046
LA16c-359F1.1	GCDH	-0.832539189	0.039716623
CTC-1337H24.3	GCDH	0.890537731	0.017317195
TOPORS-AS1	NRP2	0.955948178	0.002868102
AC087294.2	NRP2	0.956646019	0.002778608
AP001062.8	NRP2	0.970219944	0.001317072

RP11-93O14.2	TCF7L2	0.892905843	0.016589598
RP11-485G7.6	TCF7L2	0.855655191	0.029749393
RP11-455F5.3	NRP2	0.951602196	0.003456839
RP11-78A19.3	TCF7L2	0.905358915	0.013011555
Z69720.3	TCF7L2	0.910906862	0.011552789
CCDC144NL-AS1	PCMTD2	-0.871485116	0.023712832
RP11-326C3.2	NRP2	0.920467087	0.009236684
AP006621.8	NRP2	0.936414842	0.005936069
JHDM1D-AS1	NRP2	0.944062927	0.004605922
RP11-20I23.6	NRP2	0.952923072	0.003272189
AC005786.7	NRP2	0.970915325	0.001256576
AC005944.2	NRP2	0.979176532	0.00064591
CTB-191K22.5	NRP2	0.984632984	0.000352403
RP11-20I23.8	NRP2	0.947609295	0.004045278
CDC37L1-AS1	NRP2	0.944951479	0.004462102
LL21NC02-21A1.1	NRP2	0.924588594	0.008315892
RP5-1142A6.10	NRP2	0.95936118	0.002443713
RP11-556I13.1	NRP2	0.943851515	0.00464047
RP5-1033H22.2	NRXN2	0.965074248	0.001808411
RP3-339A18.6	NRXN2	0.926241909	0.007959753
RP11-160E2.19	PCMTD2	0.904838298	0.013152744
RP11-298J23.8	NRXN2	0.954333007	0.003080593
RP11-165D6.1	NRXN2	0.955126578	0.002975257
RP11-34P13.14	NSMAF	0.946672645	0.004189884
RMRP	PCMTD2	0.85980018	0.028106101
CTA-315H11.2	NSUN3	-0.951965185	0.003405599
RP11-66D17.5	NSUN3	0.944227803	0.004579066
RP11-126K1.8	NSUN3	0.969412569	0.001389078
RP3-438O4.4	NSUN3	0.990972116	0.000121886
NUP50-AS1	NSUN3	0.980400462	0.000572448
RP11-498J9.2	TREML1	0.90845533	0.012187048
RP11-34P13.14	TREML1	0.889749218	0.01756279
RP11-93O14.2	TREML1	0.840375752	0.036186246
PSMD5-AS1	NSUN3	0.984585884	0.000354561
RP11-78A19.3	TREML1	0.856740328	0.029314918
Z69720.3	TREML1	0.870376175	0.024114513
CCDC144NL-AS1	SH2B2	-0.898425469	0.014952086
TOPORS-AS1	NSUN3	0.977995609	0.000720963
RP11-126K1.8	SH2B2	0.85034294	0.031919901
RP3-438O4.4	SH2B2	0.86815988	0.024926915
NUP50-AS1	SH2B2	0.866527229	0.025533564
AC087294.2	NSUN3	0.997846376	6.95E-06
TOPORS-AS1	SH2B2	0.884410425	0.019269231
AC087294.2	SH2B2	0.904338782	0.013288902
AP001062.8	SH2B2	0.877778364	0.021494311
RP11-455F5.3	SH2B2	0.915527453	0.010402035
AP001062.8	NSUN3	0.9889098	0.000183807
RP11-455F5.3	NSUN3	0.998447082	3.62E-06
JHDM1D-AS1	SH2B2	0.913614336	0.010871399
RP11-326C3.2	NSUN3	0.991768592	0.000101355
AP006621.8	NSUN3	0.987017926	0.000251707
AC005786.7	SH2B2	0.906382911	0.012736001
AC005944.2	SH2B2	0.912887296	0.011052402
CTB-191K22.5	SH2B2	0.85279536	0.030908905
JHDM1D-AS1	NSUN3	0.999670589	1.63E-07
CDC37L1-AS1	SH2B2	0.877728325	0.021511541
RP11-20I23.6	NSUN3	0.99752384	9.19E-06
RP11-556I13.1	SH2B2	0.913576397	0.010880808
RP11-160E2.19	NSUN3	0.951412734	0.003483733
CCDC144NL-AS1	GIMAP5	-0.842229306	0.035373806
AC005786.7	NSUN3	0.990834802	0.000125616
AC005944.2	NSUN3	0.966076396	0.001706697
CTB-191K22.5	NSUN3	0.973487923	0.001045018

RP11-20I23.8	NSUN3	0.999721982	1.16E-07
CDC37L1-AS1	NSUN3	0.993425811	6.47E-05
RP5-1142A6.10	NSUN3	0.987716205	0.000225411
RP11-556I13.1	NSUN3	0.999674414	1.59E-07
CCDC144NL-AS1	NSUN4	0.944205528	0.00458269
CTA-315H11.2	NSUN4	0.982411615	0.000461306
RP11-126K1.8	NSUN4	-0.921417711	0.009020134
PSMD5-AS1	NSUN4	-0.937972515	0.005651791
AC087294.2	NSUN4	-0.929141139	0.007353577
AP001062.8	NSUN4	-0.91753459	0.009920411
RP11-455F5.3	NSUN4	-0.938038802	0.005639845
RP11-326C3.2	NSUN4	-0.936359999	0.005946202
AP006621.8	NSUN4	-0.944698361	0.004502843
JHDM1D-AS1	NSUN4	-0.936767579	0.005871096
RP11-20I23.6	NSUN4	-0.918730651	0.009638681
RP11-20I23.8	NSUN4	-0.935759171	0.006057769
CDC37L1-AS1	NSUN4	-0.920441777	0.009242484
LL21NC02-21A1.1	GIMAP5	0.83014322	0.040826692
RP11-556I13.1	NSUN4	-0.936671465	0.005888765
CTA-315H11.2	NT5M	-0.929909715	0.007196808
AC011558.5	GIMAP5	0.816119384	0.047609428
CCDC144NL-AS1	ARHGEF3	-0.908962529	0.012054481
CTD-2531D15.5	ARHGEF3	-0.843516078	0.034814899
CTA-315H11.2	ARHGEF3	-0.905931278	0.012857183
PSMD5-AS1	ARHGEF3	0.89049904	0.017329207
AC087294.2	ARHGEF3	0.818845463	0.046252978
RP11-455F5.3	ARHGEF3	0.836736247	0.037806678
RP11-326C3.2	ARHGEF3	0.902163494	0.013889728
AP006621.8	ARHGEF3	0.899330672	0.014691363
JHDM1D-AS1	ARHGEF3	0.829581157	0.041089171
RP11-20I23.6	ARHGEF3	0.853369766	0.030674332
RP11-66D17.5	NT5M	0.962814048	0.002048482
AC005786.7	ARHGEF3	0.813403707	0.048978793
AC005944.2	ARHGEF3	0.842969131	0.035051953
RP11-20I23.8	ARHGEF3	0.83697655	0.03769866
RP5-1142A6.10	ARHGEF3	0.859926362	0.02805677
RP11-556I13.1	ARHGEF3	0.829411972	0.041168334
RP11-126K1.8	NT5M	0.98641401	0.000275615
RP3-438O4.4	NT5M	0.972197003	0.001148764
NUP50-AS1	NT5M	0.990442541	0.000136581
PSMD5-AS1	NT5M	0.994883485	3.92E-05
TOPORS-AS1	NT5M	0.961657927	0.002176988
AC087294.2	NT5M	0.989354331	0.000169392
AP001062.8	NT5M	0.99148777	0.000108379
RP11-455F5.3	NT5M	0.991296685	0.000113292
RP11-326C3.2	NT5M	0.979038286	0.000654485
AP006621.8	NT5M	0.991455141	0.00010921
CCDC144NL-AS1	VIPR1	-0.895904391	0.015689859
JHDM1D-AS1	NT5M	0.984724039	0.00034825
RP11-66D17.5	VIPR1	0.914744963	0.010592797
RP11-20I23.6	NT5M	0.987886674	0.00021921
RP11-160E2.19	NT5M	0.9451087	0.004436887
AC005786.7	NT5M	0.985046361	0.000333745
AC005944.2	NT5M	0.993609281	6.11E-05
CTB-191K22.5	NT5M	0.988762846	0.000188701
RP11-20I23.8	NT5M	0.987574579	0.000230627
CDC37L1-AS1	NT5M	0.972066458	0.001159526
RP5-1142A6.10	NT5M	0.982822638	0.000440058
RP11-556I13.1	NT5M	0.98452717	0.000357261
CTA-315H11.2	NTAN1	-0.950312457	0.003641942
RP11-66D17.5	NTAN1	0.946488481	0.004218609
RP11-126K1.8	NTAN1	0.970666235	0.001278084
RP3-438O4.4	NTAN1	0.990496687	0.00013504

NUP50-AS1	NTAN1	0.982188584	0.000473045
PSMD5-AS1	NTAN1	0.986471925	0.000273275
TOPORS-AS1	NTAN1	0.979023148	0.000655427
AC087294.2	NTAN1	0.998160217	5.07E-06
AP001062.8	NTAN1	0.989814804	0.000155079
RP11-455F5.3	NTAN1	0.998800517	2.16E-06
RP11-326C3.2	NTAN1	0.992339125	8.78E-05
AC011558.5	VIPR1	0.871854936	0.023579591
CCDC144NL-AS1	PBX1	-0.878962124	0.021088638
AP006621.8	NTAN1	0.988441776	0.000199617
JHDM1D-AS1	NTAN1	0.999505667	3.66E-07
RP11-20I23.6	NTAN1	0.998382415	3.92E-06
RP11-160E2.19	NTAN1	0.953408881	0.00320553
AC005786.7	NTAN1	0.992227003	9.04E-05
AC005944.2	NTAN1	0.969669968	0.001365916
CTB-191K22.5	NTAN1	0.975377502	0.000901937
RP11-20I23.8	NTAN1	0.999851084	3.33E-08
CDC37L1-AS1	NTAN1	0.992702436	7.97E-05
RP5-1142A6.10	NTAN1	0.989646293	0.000160244
RP11-556I13.1	NTAN1	0.999497411	3.79E-07
AC024028.1	NTRK1	0.950072851	0.003676853
RP11-498J9.2	NTRK1	0.994782381	4.08E-05
RP11-34P13.14	NTRK1	0.990133887	0.00014553
RP11-93O14.2	NTRK1	0.98856759	0.000195303
RP11-485G7.6	NTRK1	0.953079106	0.003250706
RP11-78A19.3	NTRK1	0.982978994	0.000432106
Z69720.3	NTRK1	0.993715324	5.91E-05
RP11-77G23.2	NUDT12	0.931721302	0.006833814
RP11-77G23.2	NUDT21	0.946590647	0.004202662
CCDC144NL-AS1	NUFIP1	0.920156488	0.009307979
CTA-315H11.2	NUFIP1	0.959698778	0.002403554
CCDC144NL-AS1	TRAT1	-0.893817375	0.016313533
PSMD5-AS1	NUFIP1	-0.958599342	0.002535541
RP11-326C3.2	NUFIP1	-0.93595	0.006022224
AP006621.8	NUFIP1	-0.958991741	0.002488035
RP11-160E2.19	NUFIP1	-0.949675796	0.003735065
AC005944.2	NUFIP1	-0.933427382	0.006500348
RP11-77G23.2	NUP160	0.944048175	0.004608329
AC011558.5	NUP37	-0.929228443	0.007335686
LLNLR-284B4.1	NUP62CL	-0.936371224	0.005944127
AC024028.1	NXF1	0.951695902	0.003443575
RP11-473M20.11	NXF1	0.980290333	0.000578878
RP11-34P13.14	NYNRIN	0.928674294	0.007449605
RP11-93O14.2	NYNRIN	0.947817882	0.004013415
RP11-78A19.3	NYNRIN	0.922743333	0.008722332
RP11-680G24.6	NYNRIN	0.946001297	0.004295064
LA16c-359F1.1	NYNRIN	0.920666039	0.009191157
Z69720.3	NYNRIN	0.92957625	0.007264623
RP11-160E2.19	OBSCN	0.95787903	0.002623899
AC011558.5	OBSCN	0.98017749	0.000585503
CTA-315H11.2	ODF3B	-0.92639944	0.007926215
RP11-126K1.8	ODF3B	0.930488013	0.007079937
RP3-438O4.4	ODF3B	0.952023101	0.003397458
NUP50-AS1	ODF3B	0.956484673	0.002799176
AC011558.5	TRAT1	0.86662562	0.025496808
CCDC144NL-AS1	HSPA6	-0.866860667	0.025409104
PSMD5-AS1	ODF3B	0.981070618	0.000534091
TOPORS-AS1	ODF3B	0.968739384	0.001450565
AC087294.2	ODF3B	0.970401977	0.0013011
AP001062.8	ODF3B	0.957657485	0.002651375
RP11-455F5.3	ODF3B	0.973225367	0.001065724
RP11-326C3.2	ODF3B	0.988488132	0.000198022
AP006621.8	ODF3B	0.982088301	0.00047837

JHDM1D-AS1	ODF3B	0.971676718	0.001191952
RP11-20I23.6	ODF3B	0.987084049	0.000249155
RP11-160E2.19	ODF3B	0.983529994	0.000404658
AC005786.7	ODF3B	0.98057419	0.000562378
AC005944.2	ODF3B	0.97157225	0.001200719
CTB-191K22.5	ODF3B	0.945112388	0.004436296
RP11-20I23.8	ODF3B	0.97545611	0.000896211
CDC37L1-AS1	ODF3B	0.954180717	0.003101013
RP5-1142A6.10	ODF3B	0.994678351	4.24E-05
RP11-556I13.1	ODF3B	0.971639468	0.001195074
CTA-315H11.2	OPTN	-0.944586627	0.004520886
RP11-66D17.5	OPTN	0.954072053	0.003115625
RP11-126K1.8	OPTN	0.9775513	0.00075026
LL21NC02-21A1.1	HSPA6	0.855761179	0.029706824
RP3-438O4.4	OPTN	0.993252736	6.81E-05
NUP50-AS1	OPTN	0.986247031	0.000282416
CCDC144NL-AS1	VILL	-0.852976046	0.030835026
PSMD5-AS1	OPTN	0.984284393	0.00036853
TOPORS-AS1	OPTN	0.978729982	0.000673809
AC087294.2	OPTN	0.999502313	3.71E-07
AP001062.8	OPTN	0.993722641	5.90E-05
RP11-455F5.3	OPTN	0.999588395	2.54E-07
RP11-326C3.2	OPTN	0.987601017	0.000229649
AP006621.8	OPTN	0.985726142	0.00030416
JHDM1D-AS1	OPTN	0.999781361	7.17E-08
RP11-20I23.6	OPTN	0.996331521	2.02E-05
RP11-160E2.19	OPTN	0.941914438	0.00496291
AC005786.7	OPTN	0.991684693	0.000103429
AC005944.2	OPTN	0.968531327	0.001469835
CTB-191K22.5	OPTN	0.980176501	0.000585562
RP11-20I23.8	OPTN	0.999731642	1.08E-07
CDC37L1-AS1	OPTN	0.994337131	4.80E-05
RP5-1142A6.10	OPTN	0.985730398	0.00030398
RP11-556I13.1	OPTN	0.999755496	8.97E-08
AC024028.1	OR14L1P	0.945750479	0.004334687
RP11-498J9.2	OR14L1P	0.989863336	0.000153607
RP11-34P13.14	OR14L1P	0.992058782	9.43E-05
RP11-93O14.2	OR14L1P	0.983875698	0.000387894
RP11-485G7.6	OR14L1P	0.941284737	0.005070013
AC011558.5	VILL	0.890305387	0.017389389
RP11-78A19.3	OR14L1P	0.975391702	0.000900901
Z69720.3	OR14L1P	0.9950513	3.67E-05
CTA-315H11.2	OR2W3	-0.944433296	0.004545702
RP11-66D17.5	OR2W3	0.952693829	0.003303878
RP11-126K1.8	OR2W3	0.974795783	0.000944873
RP3-438O4.4	OR2W3	0.994270888	4.91E-05
NUP50-AS1	OR2W3	0.984757493	0.00034673
RP11-680G24.6	COL24A1	0.815268752	0.048036416
LA16c-359F1.1	COL24A1	0.867629061	0.025123392
PSMD5-AS1	OR2W3	0.98198059	0.000484123
CCDC144NL-AS1	S100B	-0.865118907	0.026062424
TOPORS-AS1	OR2W3	0.979554516	0.000622753
CTD-2541M15.3	S100B	-0.813073683	0.049146434
RP11-66D17.5	S100B	0.818165549	0.046589585
RP11-126K1.8	S100B	0.86980341	0.024323237
RP3-438O4.4	S100B	0.863007284	0.026865035
NUP50-AS1	S100B	0.883860381	0.019449347
AC087294.2	OR2W3	0.999202508	9.54E-07
TOPORS-AS1	S100B	0.880303583	0.020633389
AC087294.2	S100B	0.904009127	0.01337913
AP001062.8	S100B	0.887420144	0.018297905
RP11-455F5.3	S100B	0.914790302	0.010581698
AP001062.8	OR2W3	0.992559875	8.28E-05

RP11-455F5.3	OR2W3	0.998972804	1.58E-06
JHDM1D-AS1	S100B	0.907363279	0.012474859
RP11-326C3.2	OR2W3	0.987148467	0.000246682
AP006621.8	OR2W3	0.983751242	0.000393888
AC005786.7	S100B	0.9103398	0.01169804
JHDM1D-AS1	OR2W3	0.999950038	3.74E-09
CTB-191K22.5	S100B	0.875557568	0.022265326
RP11-20I23.8	S100B	0.914895953	0.010555857
CDC37L1-AS1	S100B	0.870603462	0.024031923
RP11-20I23.6	OR2W3	0.996165364	2.20E-05
RP11-556I13.1	S100B	0.907182707	0.012522762
RP11-160E2.19	OR2W3	0.940969593	0.005124035
CTA-315H11.2	ANKRD9	-0.871549793	0.023689504
AC005786.7	OR2W3	0.991622273	0.000104985
AC005944.2	OR2W3	0.965645068	0.001750118
CTB-191K22.5	OR2W3	0.97845712	0.000691145
RP11-20I23.8	OR2W3	0.999668434	1.65E-07
CDC37L1-AS1	OR2W3	0.995665804	2.81E-05
RP5-1142A6.10	OR2W3	0.985364351	0.000319736
RP11-556I13.1	OR2W3	0.999944541	4.61E-09
RP11-34P13.14	ORAI2	0.945231847	0.004417186
CTD-2139B15.2	ORC1	0.929781934	0.007222757
AC011558.5	ORC6	-0.940333209	0.005233978
CTA-315H11.2	ORM1	-0.96985085	0.001349755
RP11-126K1.8	ORM1	0.938139057	0.0056218
RP3-438O4.4	ORM1	0.95789213	0.002622279
RP11-160E2.19	ANKRD9	0.858104498	0.028773014
NUP50-AS1	ORM1	0.950230037	0.003653933
PSMD5-AS1	ORM1	0.987803365	0.00022223
TOPORS-AS1	ORM1	0.955684964	0.00290222
RMRP	ANKRD9	0.814665165	0.048340468
AC087294.2	ORM1	0.977474359	0.000755392
AP001062.8	ORM1	0.960764991	0.00227888
RP11-455F5.3	ORM1	0.98277609	0.00044244
RP11-326C3.2	ORM1	0.999406171	5.29E-07
AP006621.8	ORM1	0.992455593	8.52E-05
JHDM1D-AS1	ORM1	0.982714143	0.000445619
RP11-20I23.6	ORM1	0.989349287	0.000169552
RP11-160E2.19	ORM1	0.987318452	0.000240213
AC005786.7	ORM1	0.972950561	0.001087613
AC005944.2	ORM1	0.96072768	0.002283188
CTB-191K22.5	ORM1	0.940350998	0.005230889
RP11-20I23.8	ORM1	0.984937665	0.000338602
LA16c-359F1.1	WWTR1	0.844702132	0.034303449
CDC37L1-AS1	ORM1	0.963527696	0.001971085
CCDC144NL-AS1	CCDC57	-0.843178753	0.034961011
RP5-1142A6.10	ORM1	0.985388816	0.00031867
RP11-66D17.5	CCDC57	0.891101536	0.017142606
RP11-126K1.8	CCDC57	0.908520142	0.012170069
RP11-556I13.1	ORM1	0.982699579	0.000446368
CTA-315H11.2	OSBP2	-0.927476193	0.007698827
RP11-66D17.5	OSBP2	0.971197365	0.00123244
RP11-126K1.8	OSBP2	0.991242781	0.000114698
RP3-438O4.4	OSBP2	0.991584749	0.000105927
NUP50-AS1	OSBP2	0.994427572	4.65E-05
PSMD5-AS1	OSBP2	0.981999111	0.000483132
TOPORS-AS1	OSBP2	0.972726037	0.001105659
AC087294.2	OSBP2	0.997920983	6.48E-06
AP001062.8	OSBP2	0.999253697	8.35E-07
RP11-455F5.3	OSBP2	0.997272176	1.12E-05
RP11-326C3.2	OSBP2	0.974782604	0.000945857
AP006621.8	OSBP2	0.980771979	0.000551021
JHDM1D-AS1	OSBP2	0.994687487	4.23E-05

RP11-20I23.6	OSBP2	0.989197713	0.000174404
RP11-160E2.19	OSBP2	0.920527863	0.009222765
AC005786.7	OSBP2	0.988432369	0.000199941
AC005944.2	OSBP2	0.973791995	0.001021289
CTB-191K22.5	OSBP2	0.991348483	0.000111949
AC011558.5	CCDC57	0.867725317	0.02508771
CCDC144NL-AS1	ORM1	-0.904390517	0.013274768
RP11-20I23.8	OSBP2	0.994808262	4.04E-05
RP11-66D17.5	ORM1	0.894806428	0.016016512
CDC37L1-AS1	OSBP2	0.990436041	0.000136767
RP5-1142A6.10	OSBP2	0.977180128	0.000775178
RP11-556I13.1	OSBP2	0.994583313	4.39E-05
AC024028.1	OSBPL10	0.957062792	0.002725826
RP11-498J9.2	OSBPL10	0.998338409	4.14E-06
RP11-34P13.14	OSBPL10	0.977704473	0.000740094
RP11-93O14.2	OSBPL10	0.989309259	0.000170827
RP11-485G7.6	OSBPL10	0.970420593	0.001299472
RP11-78A19.3	OSBPL10	0.991588392	0.000105835
LA16c-359F1.1	OSBPL10	0.918559916	0.009678656
Z69720.3	OSBPL10	0.98160111	0.000504665
RP11-680G24.6	OSBPL3	0.925654016	0.008085521
AC024028.1	OSM	0.946900699	0.004154446
RP11-498J9.2	OSM	0.995978121	2.42E-05
RP11-34P13.14	OSM	0.959030311	0.002483389
RP11-93O14.2	OSM	0.975066529	0.000924767
RP11-485G7.6	OSM	0.980213968	0.000583358
RP11-78A19.3	OSM	0.975413464	0.000899315
Z69720.3	OSM	0.981501567	0.000510123
RP11-66D17.5	OTUD6B	-0.938771512	0.005508621
AC011558.5	ORM1	0.895644878	0.015766774
CCDC144NL-AS1	PITPNM2	-0.903565003	0.013501154
LL21NC02-21A1.1	OTUD6B	-0.963597571	0.001963586
RP11-126K1.8	PITPNM2	0.833425315	0.039309704
RP3-438O4.4	PITPNM2	0.865650367	0.025862242
NUP50-AS1	PITPNM2	0.849716798	0.032180485
CTA-315H11.2	OXER1	-0.961908389	0.002148821
TOPORS-AS1	PITPNM2	0.871735487	0.023622588
AC087294.2	PITPNM2	0.897947042	0.015090778
AP001062.8	PITPNM2	0.865740093	0.025828518
RP11-455F5.3	PITPNM2	0.909146125	0.012006666
RP11-66D17.5	OXER1	0.92582615	0.008048597
RP11-126K1.8	OXER1	0.959082174	0.002477149
JHDM1D-AS1	PITPNM2	0.910977738	0.011534696
RP3-438O4.4	OXER1	0.979379449	0.000633427
NUP50-AS1	OXER1	0.970700231	0.001275138
AC005786.7	PITPNM2	0.895475471	0.015817081
AC005944.2	PITPNM2	0.894470684	0.016117045
CTB-191K22.5	PITPNM2	0.837308808	0.037549546
RP11-20I23.8	PITPNM2	0.915282109	0.010461666
CDC37L1-AS1	PITPNM2	0.879452936	0.020921522
PSMD5-AS1	OXER1	0.989498557	0.000164841
RP11-556I13.1	PITPNM2	0.911031005	0.011521107
TOPORS-AS1	OXER1	0.971947368	0.001169387
RP11-473M20.11	CDK18	0.841763167	0.035577305
CCDC144NL-AS1	CDK18	-0.828095933	0.041786543
CTD-2531D15.5	CDK18	-0.865171574	0.026042554
RP11-160E2.19	CDK18	0.812904967	0.049232238
AC011558.5	CDK18	0.890655859	0.017280545
CCDC144NL-AS1	C20orf108	-0.863978609	0.026494407
AC087294.2	OXER1	0.992127891	9.27E-05
AP001062.8	OXER1	0.979909151	0.000601409
RP11-455F5.3	OXER1	0.994827108	4.01E-05
RP11-326C3.2	OXER1	0.998487129	3.43E-06

AP006621.8	OXER1	0.992860564	7.63E-05
JHDM1D-AS1	OXER1	0.995318284	3.28E-05
RP11-20I23.6	OXER1	0.997330332	1.07E-05
RP11-160E2.19	OXER1	0.970676712	0.001277176
AC005786.7	OXER1	0.986512237	0.000271653
AC005944.2	OXER1	0.967356809	0.001580975
CTB-191K22.5	OXER1	0.962244874	0.002111265
RP11-20I23.8	OXER1	0.996391037	1.95E-05
CDC37L1-AS1	OXER1	0.982995681	0.000431262
RP5-1142A6.10	OXER1	0.990439255	0.000136675
RP11-556I13.1	OXER1	0.995310195	3.29E-05
AC024028.1	P2RY10	0.989293516	0.000171133
RP11-498J9.2	P2RY10	0.992498218	8.42E-05
RP11-34P13.14	P2RY10	0.974644077	0.000956233
RP11-93O14.2	P2RY10	0.961381467	0.002208289
RP11-485G7.6	P2RY10	0.934209572	0.006350188
LL21NC02-21A1.1	C20orf108	0.824881348	0.043314672
RP11-473M20.11	P2RY10	0.957034415	0.002729404
RP11-78A19.3	P2RY10	0.965699437	0.001744615
Z69720.3	P2RY10	0.973031067	0.001081177
CTA-315H11.2	P2RY13	-0.948001689	0.003985439
RP11-66D17.5	P2RY13	0.952211946	0.00337098
RP11-126K1.8	P2RY13	0.976320586	0.000834433
RP3-438O4.4	P2RY13	0.991195341	0.000115942
NUP50-AS1	P2RY13	0.985674214	0.000306372
PSMD5-AS1	P2RY13	0.987533951	0.000232135
TOPORS-AS1	P2RY13	0.977831701	0.000731703
AC087294.2	P2RY13	0.999118701	1.16E-06
AP001062.8	P2RY13	0.992792446	7.77E-05
RP11-455F5.3	P2RY13	0.99967161	1.62E-07
RP11-326C3.2	P2RY13	0.990224806	0.000142865
AP006621.8	P2RY13	0.988796197	0.000187585
JHDM1D-AS1	P2RY13	0.99952152	3.43E-07
RP11-20I23.6	P2RY13	0.997590633	8.70E-06
RP11-160E2.19	P2RY13	0.948695983	0.003880635
AC005786.7	P2RY13	0.992206208	9.09E-05
AC005944.2	P2RY13	0.972454572	0.001127676
CTB-191K22.5	P2RY13	0.979834864	0.000605849
RP11-20I23.8	P2RY13	0.999905318	1.34E-08
CDC37L1-AS1	P2RY13	0.992864574	7.62E-05
RP5-1142A6.10	P2RY13	0.988097078	0.000211676
CCDC144NL-AS1	TFEB	-0.892113505	0.016831372
RP11-556I13.1	P2RY13	0.99948873	3.92E-07
RP11-66D17.5	TFEB	0.893166809	0.016510335
AC024028.1	P4HA1	0.930135349	0.007151097
RP11-498J9.2	P4HA1	0.992200436	9.10E-05
RP11-34P13.14	P4HA1	0.971622413	0.001196505
RP11-93O14.2	P4HA1	0.994190072	5.05E-05
RP11-485G7.6	P4HA1	0.979932792	0.000599999
RP11-78A19.3	P4HA1	0.994845307	3.98E-05
LA16c-359F1.1	P4HA1	0.944110936	0.004598094
Z69720.3	P4HA1	0.979774628	0.000609462
RP11-498J9.2	P4HA2	0.977013134	0.000786521
RP11-34P13.14	P4HA2	0.932643163	0.006652618
RP11-93O14.2	P4HA2	0.965381716	0.001776895
RP11-485G7.6	P4HA2	0.99210638	9.32E-05
RP11-78A19.3	P4HA2	0.968661826	0.001457733
LA16c-359F1.1	P4HA2	0.924008696	0.008442605
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RP11-66D17.5	PABPC4	-0.982629774	0.000449967
RP11-126K1.8	PABPC4	-0.961067205	0.002244137
RP3-438O4.4	PABPC4	-0.933464604	0.006493164
NUP50-AS1	PABPC4	-0.957923442	0.002618408

AC087294.2	PABPC4	-0.923310629	0.008596374
AC011558.5	TFEB	0.904806332	0.013161437
AP001062.8	PABPC4	-0.95017836	0.00366146
RP11-126K1.8	EPHB6	0.902278335	0.013857688
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NUP50-AS1	EPHB6	0.896552662	0.015498515
TOPORS-AS1	EPHB6	0.867067482	0.025332053
AC087294.2	EPHB6	0.878793484	0.021146206
AP001062.8	EPHB6	0.899266116	0.014709884
RP11-455F5.3	EPHB6	0.866580152	0.02551379
JHDM1D-AS1	EPHB6	0.868245057	0.024895456
RP11-20I23.6	EPHB6	0.836816951	0.037770384
AC005786.7	EPHB6	0.859647873	0.028165701
CTB-191K22.5	EPHB6	0.896043863	0.015648597
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RP11-20I23.8	EPHB6	0.861278981	0.027530541
CDC37L1-AS1	EPHB6	0.894625785	0.016070565
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RP11-556I13.1	EPHB6	0.868216713	0.024905923
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CDC37L1-AS1	PABPC4	-0.922269177	0.008828293
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CTA-315H11.2	PACS1	-0.932846128	0.006613044
PSMD5-AS1	PACS1	0.921766865	0.008941225
RP11-326C3.2	PACS1	0.947466871	0.004067106
AP006621.8	PACS1	0.930485406	0.007080461
RP11-160E2.19	PACS1	0.988485785	0.000198102
RP5-1142A6.10	PACS1	0.921820545	0.008929123
AC011558.5	PACS1	0.982510363	0.000456156
AC024028.1	PACSIN3	0.953132055	0.003243431
RP11-498J9.2	PACSIN3	0.997139321	1.23E-05
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RP11-93O14.2	PACSIN3	0.986732388	0.000262877
RP11-485G7.6	PACSIN3	0.959676522	0.002406192
RP11-78A19.3	PACSIN3	0.981527916	0.000508675
Z69720.3	PACSIN3	0.991715884	0.000102656
CTA-315H11.2	PADI2	-0.966259429	0.001688434
RP11-126K1.8	PADI2	0.945274742	0.004410334
RP3-438O4.4	PADI2	0.964481605	0.00186993
NUP50-AS1	PADI2	0.957865085	0.002625624
PSMD5-AS1	PADI2	0.989683349	0.000159101
AC011558.5	SEC31B	0.832426614	0.039768459
TOPORS-AS1	PADI2	0.962038147	0.0021343
AC087294.2	PADI2	0.982420963	0.000460818
AP001062.8	PADI2	0.967372413	0.001579472
RP11-455F5.3	PADI2	0.986922887	0.000255398
RP11-485G7.6	PNPLA7	0.916830093	0.010088197
RP11-326C3.2	PADI2	0.99987531	2.33E-08
AP006621.8	PADI2	0.993671127	6.00E-05
LA16c-359F1.1	PNPLA7	0.828393513	0.041646378
JHDM1D-AS1	PADI2	0.98674575	0.000262349
CCDC144NL-AS1	PLEKHG3	-0.871537583	0.023693908
RP11-20I23.6	PADI2	0.992752337	7.86E-05
RP11-66D17.5	PLEKHG3	0.887726929	0.018200249
RP11-160E2.19	PADI2	0.984029981	0.000380526
AC005786.7	PADI2	0.978477061	0.00068987
AC005944.2	PADI2	0.965220849	0.00179335
CTB-191K22.5	PADI2	0.948349842	0.003932714
RP11-20I23.8	PADI2	0.988808987	0.000187157
CDC37L1-AS1	PADI2	0.969297639	0.001399482
RP5-1142A6.10	PADI2	0.988756187	0.000188924
RP11-556I13.1	PADI2	0.986727001	0.00026309

CTA-315H11.2	PADI4	-0.964503245	0.001867666
PSMD5-AS1	PADI4	0.969619812	0.001370414
AC087294.2	PADI4	0.939089134	0.005452207
RP11-455F5.3	PADI4	0.948230448	0.003950756
RP11-326C3.2	PADI4	0.984756298	0.000346785
AP006621.8	PADI4	0.975963684	0.000859673
JHDM1D-AS1	PADI4	0.947166363	0.00411335
RP11-20I23.6	PADI4	0.961499833	0.002194861
RP11-160E2.19	PADI4	0.997884162	6.71E-06
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AC005944.2	PADI4	0.936417501	0.005935578
RP11-20I23.8	PADI4	0.951264848	0.003504797
CDC37L1-AS1	PADI4	0.917601167	0.009904625
CCDC144NL-AS1	AGER	-0.839204133	0.036704253
RP5-1142A6.10	PADI4	0.962931259	0.002035669
RP11-556I13.1	PADI4	0.947139319	0.004117524
AC011558.5	PADI4	0.943570019	0.004686668
RP11-473M20.11	PAG1	0.928704352	0.007443404
CTA-315H11.2	PAGE1	-0.941084873	0.005104241
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RP11-126K1.8	PAGE1	0.971656214	0.00119367
RP3-438O4.4	PAGE1	0.994742434	4.14E-05
NUP50-AS1	PAGE1	0.98441992	0.000362217
PSMD5-AS1	PAGE1	0.980763752	0.000551491
TOPORS-AS1	PAGE1	0.983196186	0.00042118
AC087294.2	PAGE1	0.998973822	1.58E-06
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RP11-556I13.1	PAGE1	0.999860891	2.90E-08
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Z69720.3	BLK	0.914663951	0.010612643
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RP11-498J9.2	ENPP2	0.880076113	0.020710251
RP11-93O14.2	ENPP2	0.839545197	0.036553101
RP11-485G7.6	ENPP2	0.896882124	0.015401703
RP11-473M20.11	ENPP2	0.813984599	0.048684367
RP11-78A19.3	ENPP2	0.838257014	0.037125528
Z69720.3	ENPP2	0.823610404	0.043925904
CTD-2621I17.8	ENPP2	-0.839480842	0.0365816
CTA-315H11.2	PAGE2	-0.930843101	0.007008638
RP11-66D17.5	PAGE2	0.969549445	0.001376737
RP11-126K1.8	PAGE2	0.986400217	0.000276173
RP3-438O4.4	PAGE2	0.989955029	0.000150845
RP11-485G7.6	ARHGAP24	0.891809425	0.016924604
NUP50-AS1	PAGE2	0.994826864	4.01E-05
PSMD5-AS1	PAGE2	0.988285589	0.000205037
TOPORS-AS1	PAGE2	0.977131696	0.000778459
CCDC144NL-AS1	KLF7	-0.910509963	0.011654361
AC087294.2	PAGE2	0.998454489	3.58E-06

RP11-66D17.5	KLF7	0.899880822	0.014533985
AP001062.8	PAGE2	0.997921196	6.48E-06
RP11-455F5.3	PAGE2	0.998166285	5.04E-06
RP11-326C3.2	PAGE2	0.981781124	0.000494867
AP006621.8	PAGE2	0.986666376	0.000265493
JHDM1D-AS1	PAGE2	0.995531289	2.99E-05
RP11-20I23.6	PAGE2	0.994531745	4.48E-05
RP11-160E2.19	PAGE2	0.937401746	0.005755165
AC005786.7	PAGE2	0.993623091	6.09E-05
AC005944.2	PAGE2	0.982956617	0.00043324
CTB-191K22.5	PAGE2	0.991314052	0.000112841
RP11-20I23.8	PAGE2	0.996578362	1.75E-05
CDC37L1-AS1	PAGE2	0.989776736	0.000156238
RP5-1142A6.10	PAGE2	0.986702088	0.000264076
RP11-556I13.1	PAGE2	0.995433177	3.12E-05
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RP11-66D17.5	PAGE2B	0.955455426	0.002932136
RP11-126K1.8	PAGE2B	0.972883731	0.001092969
RP3-438O4.4	PAGE2B	0.995927481	2.48E-05
NUP50-AS1	PAGE2B	0.985894215	0.000297056
PSMD5-AS1	PAGE2B	0.979219688	0.000643245
AC011558.5	KLF7	0.878032618	0.021406868
TOPORS-AS1	SLPI	0.841319969	0.035771298
RP5-1142A6.10	SLPI	0.817529399	0.046905554
CTA-315H11.2	TMSL6	-0.8342462	0.038934497
TOPORS-AS1	PAGE2B	0.984246605	0.000370299
AC087294.2	PAGE2B	0.999193371	9.76E-07
AP001062.8	PAGE2B	0.992611025	8.17E-05
RP11-455F5.3	PAGE2B	0.998205012	4.83E-06
RP11-326C3.2	PAGE2B	0.985658522	0.000307042
AP006621.8	PAGE2B	0.980819437	0.000548313
JHDM1D-AS1	PAGE2B	0.999651933	1.82E-07
RP11-20I23.6	PAGE2B	0.996600578	1.73E-05
RP11-160E2.19	PAGE2B	0.938856339	0.005493527
AC005786.7	PAGE2B	0.993927062	5.52E-05
AC005944.2	PAGE2B	0.964674491	0.001849796
CTB-191K22.5	PAGE2B	0.978809066	0.000668826
RP11-20I23.8	PAGE2B	0.9992925	7.51E-07
RP11-160E2.19	TMSL6	0.867028061	0.025346731
CDC37L1-AS1	PAGE2B	0.99666186	1.67E-05
RP5-1142A6.10	PAGE2B	0.987258452	0.000242486
RP11-556I13.1	PAGE2B	0.999660853	1.73E-07
RP11-498J9.2	PALM	0.984028194	0.000380611
RP11-34P13.14	PALM	0.965060008	0.001809877
RP11-93O14.2	PALM	0.988913235	0.000183693
RP11-485G7.6	PALM	0.969962183	0.001339855
RP11-78A19.3	PALM	0.978769783	0.000671299
CCDC144NL-AS1	NFAM1	-0.82662266	0.042483717
CTA-315H11.2	NFAM1	-0.899758936	0.014568782
RP11-66D17.5	NFAM1	0.824087008	0.043696224
RP11-126K1.8	NFAM1	0.852615265	0.030982625
RP3-438O4.4	NFAM1	0.883065734	0.019710976
NUP50-AS1	NFAM1	0.887381194	0.018310321
LA16c-359F1.1	PALM	0.918143351	0.009776526
Z69720.3	PALM	0.980096457	0.000590284
AC087294.2	NFAM1	0.911155386	0.011489407
AP001062.8	NFAM1	0.888702336	0.017891423
AC024028.1	PAPSS1	0.97250244	0.001123778
RP11-498J9.2	PAPSS1	0.9885421	0.000196173
RP11-34P13.14	PAPSS1	0.991667971	0.000103845
JHDM1D-AS1	NFAM1	0.916341214	0.010205433
RP11-93O14.2	PAPSS1	0.971021787	0.001247438
RP11-485G7.6	PAPSS1	0.919492489	0.009461286

RP11-473M20.11	PAPSS1	0.924066682	0.008429892
RP11-78A19.3	PAPSS1	0.964799456	0.001836809
CTB-191K22.5	NFAM1	0.871340474	0.023765042
Z69720.3	PAPSS1	0.985970274	0.000293869
CDC37L1-AS1	NFAM1	0.888215032	0.018045393
RP11-66D17.5	PAQR9	0.921451764	0.009012424
RP11-556I13.1	NFAM1	0.9163361	0.010206663
RP11-126K1.8	PAQR9	0.951485891	0.003473336
CCDC144NL-AS1	NLRC5	-0.888366609	0.017997432
CTB-191K22.5	PAQR9	0.921545355	0.008991248
RP11-66D17.5	PARP10	0.972191792	0.001149193
RP11-126K1.8	PARP10	0.986826475	0.00025917
RP3-438O4.4	PARP10	0.972037468	0.001161923
NUP50-AS1	PARP10	0.99410324	5.21E-05
PSMD5-AS1	PARP10	0.987046766	0.000250593
TOPORS-AS1	PARP10	0.967352691	0.001581372
AC087294.2	PARP10	0.986677632	0.000265046
AP001062.8	PARP10	0.991957507	9.68E-05
RP11-455F5.3	PARP10	0.987058184	0.000250152
RP11-326C3.2	PARP10	0.969614413	0.001370899
AP006621.8	PARP10	0.982380068	0.000462958
JHDM1D-AS1	PARP10	0.979943007	0.00059939
RP11-20I23.6	PARP10	0.984016397	0.000381172
RP11-160E2.19	PARP10	0.931137501	0.006949791
AC005786.7	PARP10	0.986290581	0.000280634
AC005944.2	PARP10	0.991488413	0.000108362
CTB-191K22.5	PARP10	0.991329144	0.00011245
RP11-20I23.8	PARP10	0.982759347	0.000443298
CDC37L1-AS1	PARP10	0.969086626	0.001418684
RP5-1142A6.10	PARP10	0.981661245	0.000501381
RP11-556I13.1	PARP10	0.979734885	0.000611851
AC011558.5	NLRC5	0.872977804	0.023177229
CCDC144NL-AS1	AAK1	-0.883432126	0.019590138
AC011558.5	PARP2	-0.971810043	0.00118081
AC011558.5	PARP8	0.956860895	0.002751333
CTD-2139B15.2	PARVB	0.941461807	0.005039783
RP11-160E2.19	PARVG	0.945044437	0.004447185
AC011558.5	PARVG	0.98661713	0.000267453
AC024028.1	PAX5	0.968394497	0.001482576
RP11-498J9.2	PAX5	0.999333753	6.66E-07
RP11-34P13.14	PAX5	0.974176575	0.000991664
RP11-93O14.2	PAX5	0.979621222	0.00061871
RP11-485G7.6	PAX5	0.963340118	0.001991286
RP11-473M20.11	PAX5	0.921973861	0.008894603
RP11-78A19.3	PAX5	0.980093552	0.000590456
Z69720.3	PAX5	0.981864853	0.000490343
CTA-315H11.2	PBX1	-0.951919283	0.003412058
RP11-66D17.5	PBX1	0.942401134	0.004880898
RP11-126K1.8	PBX1	0.971054108	0.001244671
RP3-438O4.4	PBX1	0.991063132	0.000119445
NUP50-AS1	PBX1	0.979370826	0.000633955
PSMD5-AS1	PBX1	0.982439317	0.000459859
TOPORS-AS1	PBX1	0.976418382	0.000827582
AC087294.2	PBX1	0.997632871	8.40E-06
AP001062.8	PBX1	0.989053223	0.000179092
AC011558.5	AAK1	0.842275312	0.035353751
CCDC144NL-AS1	CSGALNACT1	-0.860933584	0.027664467
CTB-31O20.6	CSGALNACT1	-0.877215787	0.021688399
RMRP	CSGALNACT1	0.899832275	0.01454784
RP11-455F5.3	PBX1	0.998375006	3.96E-06
RP11-326C3.2	PBX1	0.990154654	0.000144919
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CCDC144NL-AS1	SAMD3	-0.90329803	0.013574763

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RP11-20I23.6	PBX1	0.9956202	2.87E-05
RP11-160E2.19	PBX1	0.946055633	0.004286503
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AC005944.2	PBX1	0.961135713	0.002236298
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CDC37L1-AS1	PBX1	0.992904181	7.53E-05
RP5-1142A6.10	PBX1	0.984092957	0.000377539
RP11-556I13.1	PBX1	0.999563186	2.86E-07
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RP11-66D17.5	PBX4	0.932519079	0.006676869
RP11-126K1.8	PBX4	0.967786006	0.001539897
RP3-438O4.4	PBX4	0.978282197	0.000702373
NUP50-AS1	PBX4	0.975508511	0.000892404
PSMD5-AS1	PBX4	0.994048097	5.30E-05
TOPORS-AS1	PBX4	0.968582461	0.001465087
AC087294.2	PBX4	0.993239333	6.84E-05
AP001062.8	PBX4	0.983917167	0.000385906
RP11-455F5.3	PBX4	0.996373877	1.97E-05
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CCDC144NL-AS1	CAPN5	-0.867245931	0.025265659
RP11-326C3.2	PBX4	0.997330929	1.07E-05
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JHDM1D-AS1	PBX4	0.995027301	3.70E-05
RP11-20I23.6	PBX4	0.996728708	1.60E-05
RP11-160E2.19	PBX4	0.968351067	0.001486632
AC005786.7	PBX4	0.986171204	0.000285531
AC005944.2	PBX4	0.974363539	0.000977418
CTB-191K22.5	PBX4	0.968629504	0.001460726
RP11-20I23.8	PBX4	0.996491654	1.84E-05
CDC37L1-AS1	PBX4	0.981339873	0.000519052
RP5-1142A6.10	PBX4	0.989210131	0.000174004
RP11-556I13.1	PBX4	0.99496899	3.79E-05
RP3-337H4.8	PC	0.924273427	0.008384643
CTD-2139B15.2	PC	0.935029957	0.006194537
CCDC144NL-AS1	PCBD1	0.981255634	0.000523734
CTA-315H11.2	PCBD1	0.919499817	0.009459587
AC024028.1	PCBP4	0.993598375	6.13E-05
RP11-498J9.2	PCBP4	0.985233253	0.000325475
RP11-34P13.14	PCBP4	0.967501662	0.001567052
RP11-93O14.2	PCBP4	0.944952046	0.004462011
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RP11-485G7.6	PCBP4	0.919410411	0.009480321
RP11-473M20.11	PCBP4	0.9680304	0.001516746
AC011558.5	CAPN5	0.813666747	0.048845369
RP11-78A19.3	PCBP4	0.951272409	0.003503718
RP11-498J9.2	ST3GAL6	0.839656421	0.036503873
RP11-34P13.14	ST3GAL6	0.819610048	0.04587581
Z69720.3	PCBP4	0.966538766	0.001660749
CCDC144NL-AS1	JAK3	-0.88689416	0.018465919
CTA-315H11.2	PCCA	0.921018369	0.009110799
RP11-66D17.5	PCCA	-0.917872018	0.009840531
RP11-126K1.8	PCCA	-0.97634265	0.000832885
RP3-438O4.4	PCCA	-0.945247508	0.004414684
NUP50-AS1	PCCA	-0.959102512	0.002474704
PSMD5-AS1	PCCA	-0.967921696	0.001527022
TOPORS-AS1	PCCA	-0.928158034	0.007556504
AC087294.2	PCCA	-0.9663068	0.001683723
AP001062.8	PCCA	-0.969306634	0.001398666
RP11-455F5.3	PCCA	-0.971443975	0.001211527

RP11-326C3.2	PCCA	-0.956338131	0.002817921
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RP11-20I23.6	PCCA	-0.956580326	0.002786973
AC005786.7	PCCA	-0.945870756	0.004315664
AC005944.2	PCCA	-0.94242508	0.00487688
CTB-191K22.5	PCCA	-0.952071635	0.003390643
RP11-20I23.8	PCCA	-0.964013683	0.001919221
CDC37L1-AS1	PCCA	-0.940690618	0.005172091
RP5-1142A6.10	PCCA	-0.941436484	0.005044101
RP11-556I13.1	PCCA	-0.962911247	0.002037854
CTA-315H11.2	PCGF5	-0.946197739	0.004264155
AC011558.5	JAK3	0.863861109	0.026539111
RP11-66D17.5	PCGF5	0.950012126	0.003685727
RP11-498J9.2	KLRB1	0.812778295	0.049296706
RP11-126K1.8	PCGF5	0.97295879	0.001086954
AC011558.5	KLRB1	0.837064842	0.037659008
RP11-34P13.14	COL18A1	-0.84084605	0.035979286
RP11-680G24.6	COL18A1	-0.820737974	0.04532203
RP3-337H4.8	COL18A1	0.878786264	0.021148672
RP3-438O4.4	PCGF5	0.993520497	6.28E-05
RP11-680G24.6	ACP5	-0.845886863	0.033796129
CCDC144NL-AS1	NSUN3	-0.871744775	0.023619243
NUP50-AS1	PCGF5	0.983454583	0.000408362
PSMD5-AS1	PCGF5	0.982499498	0.000456721
TOPORS-AS1	PCGF5	0.979780427	0.000609113
AC087294.2	PCGF5	0.998898463	1.82E-06
AP001062.8	PCGF5	0.991475976	0.000108679
RP11-455F5.3	PCGF5	0.998877699	1.89E-06
RP11-326C3.2	PCGF5	0.988657827	0.000192238
AP006621.8	PCGF5	0.984550455	0.000356189
JHDM1D-AS1	PCGF5	0.999999044	1.37E-12
RP11-20I23.6	PCGF5	0.996737778	1.59E-05
RP11-160E2.19	PCGF5	0.944084063	0.004602475
AC005786.7	PCGF5	0.991634591	0.000104677
AC005944.2	PCGF5	0.965311263	0.001784092
CTB-191K22.5	PCGF5	0.976727116	0.000806138
RP11-20I23.8	PCGF5	0.999785118	6.93E-08
CDC37L1-AS1	PCGF5	0.995108271	3.58E-05
RP5-1142A6.10	PCGF5	0.986348467	0.000278274
RP11-556I13.1	PCGF5	0.999998448	3.61E-12
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RP11-126K1.8	PCMTD1	0.960452167	0.00231512
RP3-438O4.4	PCMTD1	0.984771259	0.000346106
AC011558.5	NSUN3	0.819367845	0.045995132
CCDC144NL-AS1	CD8B	-0.892170853	0.016813816
NUP50-AS1	PCMTD1	0.965114406	0.001804279
PSMD5-AS1	PCMTD1	0.972696691	0.001108029
TOPORS-AS1	PCMTD1	0.967419763	0.001574916
AC087294.2	PCMTD1	0.990871388	0.000124617
AP001062.8	PCMTD1	0.979107762	0.000650169
RP11-455F5.3	PCMTD1	0.992495728	8.43E-05
RP11-326C3.2	PCMTD1	0.986886758	0.000256808
AP006621.8	PCMTD1	0.978336564	0.000698873
JHDM1D-AS1	PCMTD1	0.99510786	3.58E-05
RP11-20I23.6	PCMTD1	0.988065345	0.000212804
RP11-160E2.19	PCMTD1	0.939894794	0.005310385
AC005786.7	PCMTD1	0.97686657	0.000796543
AC005944.2	PCMTD1	0.940981979	0.005121907
CTB-191K22.5	PCMTD1	0.955553926	0.00291928
RP11-20I23.8	PCMTD1	0.993802753	5.75E-05
CDC37L1-AS1	PCMTD1	0.986944661	0.00025455

RP5-1142A6.10	PCMTD1	0.973033867	0.001080954
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RP11-66D17.5	PCMTD2	0.93709108	0.005811816
RP11-126K1.8	PCMTD2	0.966346924	0.001679738
RP3-438O4.4	PCMTD2	0.9906806	0.000129872
AC011558.5	CD8B	0.865568891	0.025892884
NUP50-AS1	PCMTD2	0.969476834	0.001383277
PSMD5-AS1	PCMTD2	0.957065065	0.00272554
TOPORS-AS1	PCMTD2	0.967621602	0.001555569
RP11-93O14.2	C13orf18	0.891480691	0.017025675
RP11-485G7.6	C13orf18	0.860640407	0.027778386
AC087294.2	PCMTD2	0.989366998	0.00016899
RP11-78A19.3	C13orf18	0.90473853	0.013179885
Z69720.3	C13orf18	0.909907295	0.011809416
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CTD-2139B15.2	FAM190B	-0.813000262	0.049183765
AC011558.5	FAM190B	0.908869399	0.01207877
CCDC144NL-AS1	IFI16	-0.888180511	0.018056324
RP11-455F5.3	PCMTD2	0.988316068	0.000203974
RP11-66D17.5	IFI16	0.877039011	0.021749559
RP11-326C3.2	PCMTD2	0.968877859	0.001437809
AP006621.8	PCMTD2	0.961588239	0.002184857
JHDM1D-AS1	PCMTD2	0.991541508	0.000107017
RP11-20I23.6	PCMTD2	0.979065802	0.000652774
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AC005944.2	PCMTD2	0.92959204	0.007261405
CTB-191K22.5	PCMTD2	0.961232286	0.002225271
RP11-20I23.8	PCMTD2	0.988870764	0.000185101
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RP5-1142A6.10	PCMTD2	0.960534341	0.002305573
RP11-556I13.1	PCMTD2	0.991583322	0.000105963
AC011558.5	PCNA	-0.952618341	0.003314346
CTA-315H11.2	PCNXL2	-0.970184021	0.001320236
RP11-126K1.8	PCNXL2	0.937757974	0.00569054
RP3-438O4.4	PCNXL2	0.957756616	0.002639063
NUP50-AS1	PCNXL2	0.949869014	0.003706681
PSMD5-AS1	PCNXL2	0.987649266	0.000227869
TOPORS-AS1	PCNXL2	0.955410824	0.002937966
AC087294.2	PCNXL2	0.977312541	0.000766242
AP001062.8	PCNXL2	0.960483305	0.0023115
RP11-455F5.3	PCNXL2	0.982627401	0.000450089
CCDC144NL-AS1	CHI3L1	-0.866138229	0.025679128
RP11-326C3.2	PCNXL2	0.9993873	5.63E-07
AP006621.8	PCNXL2	0.992342214	8.77E-05
JHDM1D-AS1	PCNXL2	0.98262514	0.000450206
RP11-20I23.6	PCNXL2	0.989230292	0.000173355
RP11-160E2.19	PCNXL2	0.987401219	0.000237094
AC005786.7	PCNXL2	0.972731899	0.001105186
AC005944.2	PCNXL2	0.960443034	0.002316182
CTB-191K22.5	PCNXL2	0.940011083	0.005290065
RP11-20I23.8	PCNXL2	0.98483809	0.000343083
CDC37L1-AS1	PCNXL2	0.963479687	0.001976246
RP5-1142A6.10	PCNXL2	0.985208643	0.000326558
RP11-556I13.1	PCNXL2	0.982612079	0.000450881
CTA-315H11.2	PCSK5	-0.961684879	0.002173949
PSMD5-AS1	PCSK5	0.963272374	0.001998606
AC087294.2	PCSK5	0.928897688	0.007403578
RP11-455F5.3	PCSK5	0.938866602	0.005491702
RP11-326C3.2	PCSK5	0.979417129	0.000631122
AP006621.8	PCSK5	0.970110909	0.001326686
JHDM1D-AS1	PCSK5	0.937655259	0.005709137

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RP11-160E2.19	PCSK5	0.997306447	1.09E-05
AC005786.7	PCSK5	0.927239975	0.007748435
AC011558.5	CHI3L1	0.847968578	0.032913337
CCDC144NL-AS1	ZNF185	-0.836481768	0.037921226
CTA-315H11.2	ZNF185	-0.849012414	0.032474826
PSMD5-AS1	ZNF185	0.82031761	0.045528051
RP11-326C3.2	ZNF185	0.843698209	0.034736129
AP006621.8	ZNF185	0.830710696	0.040562483
AC005944.2	PCSK5	0.928194507	0.007548928
RP11-20I23.8	PCSK5	0.942059499	0.004938396
RP11-156P1.3	APOL3	-0.888127171	0.018073221
CTA-315H11.2	APOL3	-0.829913032	0.040934093
RP5-1142A6.10	PCSK5	0.955502277	0.002926017
RP11-556I13.1	PCSK5	0.937626834	0.005714289
RP3-438O4.4	APOL3	0.882979971	0.019739313
AC011558.5	PCSK5	0.950496444	0.003615246
AC024028.1	PCYOX1	0.921698155	0.008956727
TOPORS-AS1	APOL3	0.842621468	0.035203027
AC087294.2	APOL3	0.906910995	0.01259501
RP11-498J9.2	PCYOX1	0.961278321	0.002220024
RP11-455F5.3	APOL3	0.909838	0.011827307
RP11-326C3.2	APOL3	0.862751825	0.026962916
AP006621.8	APOL3	0.909231821	0.01198438
JHDM1D-AS1	APOL3	0.891394101	0.017052346
RP11-20I23.6	APOL3	0.881881747	0.020103894
AC005786.7	APOL3	0.883885543	0.01944109
RP11-34P13.14	PCYOX1	0.990224144	0.000142884
RP11-93O14.2	PCYOX1	0.98055733	0.000563351
RP11-20I23.8	APOL3	0.894618673	0.016072695
CDC37L1-AS1	APOL3	0.876979943	0.021770013
LL21NC02-21A1.1	APOL3	0.909225055	0.011986139
RP5-1142A6.10	APOL3	0.863776681	0.026571255
RP11-556I13.1	APOL3	0.890856302	0.017218441
RP11-78A19.3	PCYOX1	0.970942234	0.001254263
RP11-680G24.6	PCYOX1	0.930292575	0.007119329
LA16c-359F1.1	PCYOX1	0.922397641	0.008799524
Z69720.3	PCYOX1	0.964826015	0.001834055
CTD-2541M15.3	PCYT1A	0.955914338	0.002872477
RP11-326C3.2	PDCD1	0.920352175	0.00926303
RP11-160E2.19	PDCD1	0.973708288	0.001027794
RP11-680G24.6	PAX5	0.83244184	0.039761446
LA16c-359F1.1	PAX5	0.885738429	0.018837677
AC011558.5	PDCD1	0.98242077	0.000460828
CCDC144NL-AS1	YOD1	-0.879053103	0.021057613
RP11-66D17.5	PDCD10	0.957769633	0.002637449
RP11-126K1.8	PDCD10	0.971032147	0.001246551
RP3-438O4.4	PDCD10	0.992848486	7.65E-05
NUP50-AS1	PDCD10	0.97583796	0.000868653
PSMD5-AS1	PDCD10	0.941869375	0.004970538
TOPORS-AS1	PDCD10	0.968356264	0.001486146
AC087294.2	PDCD10	0.985122647	0.000330357
AP001062.8	PDCD10	0.984668774	0.000350768
RP11-455F5.3	PDCD10	0.981014276	0.000537265
RP11-326C3.2	PDCD10	0.947768314	0.004020976
AP006621.8	PDCD10	0.943682869	0.004668121
JHDM1D-AS1	PDCD10	0.983815337	0.000390795
RP11-20I23.6	PDCD10	0.968985528	0.00142793
AC005786.7	PDCD10	0.971591898	0.001199067
AC005944.2	PDCD10	0.925222092	0.008178534
CTB-191K22.5	PDCD10	0.969602646	0.001371955
RP11-20I23.8	PDCD10	0.980573526	0.000562416
CDC37L1-AS1	PDCD10	0.989846578	0.000154115

RMRP	YOD1	0.848118305	0.032850267
RP5-1142A6.10	PDCD10	0.950392375	0.003630335
RP11-556I13.1	PDCD10	0.98384185	0.000389519
CTA-315H11.2	PDE2A	-0.959689587	0.002404643
RP11-66D17.5	PDE2A	0.926057556	0.007999088
CCDC144NL-AS1	HSF4	-0.840819087	0.035991137
RP11-126K1.8	PDE2A	0.958115	0.002594789
RP3-438O4.4	PDE2A	0.979318005	0.000637194
NUP50-AS1	PDE2A	0.970868345	0.001260619
PSMD5-AS1	PDE2A	0.98912424	0.00017678
TOPORS-AS1	PDE2A	0.973545032	0.001040541
AC087294.2	PDE2A	0.991939078	9.72E-05
AP001062.8	PDE2A	0.97963741	0.000617731
RP11-455F5.3	PDE2A	0.994505507	4.52E-05
RP11-326C3.2	PDE2A	0.998530316	3.24E-06
AP006621.8	PDE2A	0.992439272	8.55E-05
JHDM1D-AS1	PDE2A	0.995040703	3.68E-05
RP11-20I23.6	PDE2A	0.997672126	8.12E-06
RP11-160E2.19	PDE2A	0.971339262	0.001220385
AC005786.7	PDE2A	0.987338022	0.000239474
AC005944.2	PDE2A	0.967537827	0.001563585
CTB-191K22.5	PDE2A	0.962004436	0.002138068
RP11-20I23.8	PDE2A	0.996177536	2.19E-05
CDC37L1-AS1	PDE2A	0.982691123	0.000446803
RP5-1142A6.10	PDE2A	0.991601789	0.000105499
RP11-556I13.1	PDE2A	0.995035145	3.69E-05
LL21NC02-21A1.1	HSF4	0.851749211	0.031338295
RP11-498J9.2	PDE4A	0.91824632	0.009752289
RP11-34P13.14	PDE4A	0.940320354	0.005236211
AC011558.5	HSF4	0.815988077	0.047675224
CCDC144NL-AS1	SAMHD1	-0.88709361	0.018402122
RP11-93O14.2	PDE4A	0.9452908	0.00440777
RP11-78A19.3	PDE4A	0.918423814	0.00971058
RP11-680G24.6	PDE4A	0.919096482	0.009553297
Z69720.3	PDE4A	0.947376545	0.004080979
AC024028.1	PDE4B	0.980477618	0.000567965
RP11-473M20.11	PDE4B	0.999140703	1.11E-06
RP11-473M20.11	PDE4D	0.947621469	0.004043415
AC024028.1	PDE4DIP	0.918594286	0.009670602
RP11-473M20.11	PDE4DIP	0.959148085	0.00246923
CCDC144NL-AS1	PDE7A	-0.939814753	0.005324393
CTA-315H11.2	PDE7A	-0.980829402	0.000547745
PSMD5-AS1	PDE7A	0.952036161	0.003395624
AC087294.2	PDE7A	0.926940604	0.007811529
RP11-455F5.3	PDE7A	0.937311869	0.005771527
RP11-326C3.2	PDE7A	0.977183874	0.000774925
AP006621.8	PDE7A	0.962554892	0.002076953
JHDM1D-AS1	PDE7A	0.939580227	0.005365541
RP11-20I23.6	PDE7A	0.947033374	0.004133897
RP11-160E2.19	PDE7A	0.985192863	0.000327254
RP11-20I23.8	PDE7A	0.94186416	0.004971421
RP5-1142A6.10	PDE7A	0.94013883	0.005267788
RP11-556I13.1	PDE7A	0.939630268	0.005356748
AC011558.5	SAMHD1	0.867877795	0.025031235
CCDC144NL-AS1	PDK2	-0.836155303	0.038068415
AC011558.5	PDE7A	0.927853619	0.007619886
CTA-315H11.2	PDE7B	-0.952907238	0.003274373
RP11-66D17.5	PDE7B	0.940943345	0.005128547
RP11-126K1.8	PDE7B	0.968644697	0.001459319
RP3-438O4.4	PDE7B	0.989207404	0.000174092
NUP50-AS1	PDE7B	0.979237282	0.00064216
PSMD5-AS1	PDE7B	0.985597243	0.000309665
TOPORS-AS1	PDE7B	0.978018738	0.000719453

AC087294.2	PDE7B	0.997315747	1.08E-05
AP001062.8	PDE7B	0.987986843	0.000215607
RP11-455F5.3	PDE7B	0.998362397	4.02E-06
RP11-326C3.2	PDE7B	0.993341691	6.64E-05
AP006621.8	PDE7B	0.988358426	0.0002025
JHDM1D-AS1	PDE7B	0.99928988	7.56E-07
RP11-20I23.6	PDE7B	0.997760901	7.51E-06
RP11-160E2.19	PDE7B	0.954420851	0.003068844
AC005786.7	PDE7B	0.990353522	0.000139133
AC005944.2	PDE7B	0.965664369	0.001748164
CTB-191K22.5	PDE7B	0.971490017	0.001207642
RP11-20I23.8	PDE7B	0.999470632	4.20E-07
CDC37L1-AS1	PDE7B	0.99134989	0.000111913
RP5-1142A6.10	PDE7B	0.988487649	0.000198038
AC011558.5	PDK2	0.890740484	0.017254312
CCDC144NL-AS1	GIMAP7	-0.878381202	0.021287258
RP11-556I13.1	PDE7B	0.999287452	7.61E-07
AC024028.1	PDE9A	0.993097798	7.13E-05
RP11-498J9.2	PDE9A	0.957731031	0.002642238
RP11-34P13.14	PDE9A	0.933245503	0.00653551
RP11-473M20.11	PDE9A	0.98790085	0.000218699
RP11-78A19.3	PDE9A	0.920740841	0.009174068
Z69720.3	PDE9A	0.924961361	0.008234932
RP11-93O14.2	PDGFC	0.929505529	0.007279046
RP11-485G7.6	PDGFC	0.919550982	0.009447732
RP11-78A19.3	PDGFC	0.920765681	0.009168396
RP11-680G24.6	PDGFC	0.934603751	0.006275165
LA16c-359F1.1	PDGFC	0.971465038	0.001209749
RP11-498J9.2	PDGFRB	0.962757295	0.0020547
RP11-34P13.14	PDGFRB	0.982868489	0.000437719
RP11-93O14.2	PDGFRB	0.987773531	0.000223316
RP11-485G7.6	PDGFRB	0.925591385	0.008098976
RP11-78A19.3	PDGFRB	0.984315027	0.000367098
RP11-680G24.6	PDGFRB	0.95588359	0.002876456
LA16c-359F1.1	PDGFRB	0.966284558	0.001685934
Z69720.3	PDGFRB	0.965219965	0.00179344
CTD-2541M15.3	PDIK1L	0.966086374	0.001705698
CTA-315H11.2	PDK2	-0.919699197	0.00941343
AC011558.5	GIMAP7	0.834292834	0.038913232
CCDC144NL-AS1	EFCAB4A	-0.883598979	0.019535226
RP11-66D17.5	PDK2	0.922053844	0.00887662
PSMD5-AS1	EFCAB4A	0.906151615	0.012797993
TOPORS-AS1	EFCAB4A	0.826002576	0.04277876
AC087294.2	EFCAB4A	0.848478726	0.032698679
AP001062.8	EFCAB4A	0.815346279	0.047997426
RP11-455F5.3	EFCAB4A	0.862609172	0.027017648
RP11-126K1.8	PDK2	0.936845527	0.005856786
AP006621.8	EFCAB4A	0.915027149	0.01052381
JHDM1D-AS1	EFCAB4A	0.861115081	0.027594054
RP11-20I23.6	EFCAB4A	0.886220673	0.018682124
RP3-438O4.4	PDK2	0.961227033	0.00222587
AC005786.7	EFCAB4A	0.851278761	0.031532302
AC005944.2	EFCAB4A	0.865006862	0.026104721
RP11-20I23.8	EFCAB4A	0.867660263	0.025111823
CDC37L1-AS1	EFCAB4A	0.818910979	0.046220603
RP5-1142A6.10	EFCAB4A	0.895474021	0.015817512
RP11-556I13.1	EFCAB4A	0.861097026	0.027601055
NUP50-AS1	PDK2	0.964076917	0.001912523
CCDC144NL-AS1	ISG20	-0.847680875	0.033034687
PSMD5-AS1	PDK2	0.979562795	0.000622251
TOPORS-AS1	PDK2	0.978127756	0.000712361
AC087294.2	PDK2	0.976020052	0.000855662
AP001062.8	PDK2	0.964626509	0.001854795

RP11-455F5.3	PDK2	0.977524144	0.000752069
RP11-326C3.2	PDK2	0.987823675	0.000221492
AP006621.8	PDK2	0.980403551	0.000572269
JHDM1D-AS1	PDK2	0.976601893	0.000814802
RP11-20I23.6	PDK2	0.990386556	0.000138183
RP11-160E2.19	PDK2	0.975973754	0.000858956
AC005786.7	PDK2	0.986688183	0.000264627
AC005944.2	PDK2	0.971409024	0.00121448
CTB-191K22.5	PDK2	0.952158349	0.003378485
RP11-20I23.8	PDK2	0.979767179	0.000609909
CDC37L1-AS1	PDK2	0.962011702	0.002137255
RP5-1142A6.10	PDK2	0.997472117	9.58E-06
RP11-556I13.1	PDK2	0.976579248	0.000816374
RP11-156P1.3	PDLIM1	0.920971721	0.009121419
CTA-315H11.2	PDLIM2	-0.933033205	0.006576669
PSMD5-AS1	PDLIM2	0.921337289	0.009038358
LL21NC02-21A1.1	ISG20	0.877884706	0.021457717
RP11-326C3.2	PDLIM2	0.94034276	0.00523232
AP006621.8	PDLIM2	0.92969067	0.007241319
CTA-315H11.2	WDR81	-0.851733131	0.031344917
RP11-160E2.19	PDLIM2	0.983682082	0.000397239
AC011558.5	PDLIM2	0.975987384	0.000857986
RP11-34P13.14	PDLIM5	0.944169263	0.004588593
RP11-93O14.2	PDLIM5	0.92518542	0.008186455
RP11-680G24.6	PDLIM5	0.951193138	0.003515033
Z69720.3	PDLIM5	0.951086746	0.003530247
CTA-315H11.2	PDLIM7	-0.96351796	0.001972131
RP11-66D17.5	PDLIM7	0.92869066	0.007446228
RP11-126K1.8	PDLIM7	0.963280374	0.001997741
RP11-326C3.2	WDR81	0.914508731	0.010650718
RP3-438O4.4	PDLIM7	0.972212102	0.001147522
NUP50-AS1	PDLIM7	0.972307655	0.001139681
PSMD5-AS1	PDLIM7	0.996219967	2.14E-05
RP11-160E2.19	WDR81	0.835917621	0.038175743
TOPORS-AS1	PDLIM7	0.963572842	0.001966239
AC087294.2	PDLIM7	0.989527488	0.000163936
AP001062.8	PDLIM7	0.97972963	0.000612167
RMRP	WDR81	0.827384801	0.042122388
RP11-455F5.3	PDLIM7	0.993223597	6.87E-05
RP11-326C3.2	PDLIM7	0.997559485	8.93E-06
AP006621.8	PDLIM7	0.997780049	7.39E-06
JHDM1D-AS1	PDLIM7	0.991301683	0.000113162
RP11-20I23.6	PDLIM7	0.995447611	3.10E-05
AC024028.1	ZFYVE28	0.905806857	0.012890665
RP11-160E2.19	PDLIM7	0.975344308	0.000904361
CTD-2139B15.2	ZFYVE28	-0.841673407	0.035616554
AC011558.5	ZFYVE28	0.865064295	0.026083036
CCDC144NL-AS1	JMJD7-PLA2G4B	-0.916433465	0.010183261
AC005786.7	PDLIM7	0.984159195	0.000374409
RP11-66D17.5	JMJD7-PLA2G4B	0.851075371	0.031616352
RP11-126K1.8	JMJD7-PLA2G4B	0.908734489	0.012113997
AC005944.2	PDLIM7	0.979086952	0.00065146
CTB-191K22.5	PDLIM7	0.966493812	0.001665189
RP11-20I23.8	PDLIM7	0.993512955	6.30E-05
CDC37L1-AS1	PDLIM7	0.976447184	0.00082557
RP5-1142A6.10	PDLIM7	0.989715455	0.000158114
RP11-556I13.1	PDLIM7	0.991231217	0.000115
AC024028.1	PDP1	0.960201369	0.002344377
RP11-498J9.2	PDP1	0.982185813	0.000473191
RP11-34P13.14	PDP1	0.997924079	6.46E-06
RP11-93O14.2	PDP1	0.980914224	0.000542924
RP11-78A19.3	PDP1	0.976210385	0.000842187
Z69720.3	PDP1	0.979629562	0.000618206

CCDC144NL-AS1	PDZD2	-0.924993722	0.008227922
CTA-315H11.2	PDZD2	-0.968295259	0.001491851
CTB-191K22.5	JMJD7-PLA2G4B	0.90687194	0.012605411
PSMD5-AS1	PDZD2	0.966922955	0.001623042
AC087294.2	PDZD2	0.936595653	0.005902721
RP11-455F5.3	PDZD2	0.946459605	0.004223122
RP11-326C3.2	PDZD2	0.983573048	0.000402551
AP006621.8	PDZD2	0.974369858	0.000976938
CCDC144NL-AS1	CYB561D1	-0.909954374	0.011797268
JHDM1D-AS1	PDZD2	0.945435999	0.00438462
RP11-126K1.8	CYB561D1	0.857866755	0.028867111
RP3-438O4.4	CYB561D1	0.875459087	0.022299816
NUP50-AS1	CYB561D1	0.86860527	0.024762625
RP11-20I23.6	PDZD2	0.957965343	0.002613233
TOPORS-AS1	CYB561D1	0.876485171	0.021941704
AC087294.2	CYB561D1	0.910235635	0.011724817
AP001062.8	CYB561D1	0.883036638	0.019720588
RP11-160E2.19	PDZD2	0.994684416	4.23E-05
AC005786.7	PDZD2	0.93154084	0.006869563
AC005944.2	PDZD2	0.928579794	0.007469117
RP11-20I23.8	PDZD2	0.949159591	0.003811416
RP5-1142A6.10	PDZD2	0.957236932	0.00270392
RP11-556I13.1	PDZD2	0.945407552	0.004389151
AC005786.7	CYB561D1	0.905575305	0.012953088
AC005944.2	CYB561D1	0.916135112	0.010255055
CTB-191K22.5	CYB561D1	0.859393151	0.02826551
AC011558.5	PDZD2	0.938671921	0.005526368
CDC37L1-AS1	CYB561D1	0.888600318	0.017923605
CTA-315H11.2	PDZD4	-0.94617968	0.004266992
RP11-66D17.5	PDZD4	0.948819262	0.003862169
RP11-126K1.8	PDZD4	0.971696246	0.001190317
CCDC144NL-AS1	TRAK2	-0.866784405	0.025437544
RP3-438O4.4	PDZD4	0.993134987	7.05E-05
NUP50-AS1	PDZD4	0.982957466	0.000433197
PSMD5-AS1	PDZD4	0.982734966	0.000444549
TOPORS-AS1	PDZD4	0.980666562	0.000557059
AC087294.2	PDZD4	0.998727117	2.43E-06
AP001062.8	PDZD4	0.990882311	0.000124319
RP11-455F5.3	PDZD4	0.998764024	2.29E-06
RP11-326C3.2	PDZD4	0.989547175	0.000163321
AP006621.8	PDZD4	0.984900667	0.000340264
JHDM1D-AS1	PDZD4	0.999958603	2.57E-09
RP11-20I23.6	PDZD4	0.997265629	1.12E-05
RP11-160E2.19	PDZD4	0.946113985	0.004277319
AC005786.7	PDZD4	0.992087135	9.37E-05
AC005944.2	PDZD4	0.965374864	0.001777594
RP11-160E2.19	TRAK2	0.901664755	0.014029288
CTB-191K22.5	PDZD4	0.975828671	0.000869319
RP11-20I23.8	PDZD4	0.999816675	5.04E-08
CDC37L1-AS1	PDZD4	0.994706166	4.20E-05
RMRP	TRAK2	0.858798521	0.028499159
RP5-1142A6.10	PDZD4	0.987473026	0.000234405
RP11-556I13.1	PDZD4	0.999961149	2.26E-09
LL21NC02-21A1.1	TRAK2	0.848414383	0.032725717
RP11-66D17.5	PDZK1IP1	0.968689657	0.001455159
RP11-126K1.8	PDZK1IP1	0.994662614	4.27E-05
RP3-438O4.4	PDZK1IP1	0.941991437	0.004949891
RP11-498J9.2	ANKRD6	0.811889368	0.04975021
NUP50-AS1	PDZK1IP1	0.974861708	0.000939958
AC011558.5	ANKRD6	0.832213828	0.039866525
CCDC144NL-AS1	C21orf7	-0.915794617	0.010337289
PSMD5-AS1	PDZK1IP1	0.950948686	0.003550038
RP11-126K1.8	C21orf7	0.832620992	0.039678976

RP3-438O4.4	C21orf7	0.851859903	0.031292729
NUP50-AS1	C21orf7	0.843426119	0.034853836
AC087294.2	PDZK1IP1	0.955746285	0.002894254
TOPORS-AS1	C21orf7	0.859829583	0.028094603
AC087294.2	C21orf7	0.889714149	0.017573752
AP001062.8	C21orf7	0.859412444	0.028257945
RP11-455F5.3	C21orf7	0.902610473	0.013765224
AP001062.8	PDZK1IP1	0.975166603	0.000917389
RP11-455F5.3	PDZK1IP1	0.956100016	0.002848511
JHDM1D-AS1	C21orf7	0.901788873	0.013994494
AP006621.8	PDZK1IP1	0.943223875	0.004743783
JHDM1D-AS1	PDZK1IP1	0.944174329	0.004587768
AC005786.7	C21orf7	0.8855672	0.018893058
AC005944.2	C21orf7	0.892714478	0.016647837
CTB-191K22.5	C21orf7	0.830626639	0.040601568
RP11-20I23.8	C21orf7	0.906818021	0.012619778
CDC37L1-AS1	C21orf7	0.864413614	0.026329215
RP11-20I23.6	PDZK1IP1	0.933552147	0.006476282
RP11-556I13.1	C21orf7	0.901774255	0.01399859
AC005786.7	PDZK1IP1	0.936849112	0.005856128
CCDC144NL-AS1	LILRB3	-0.860436262	0.027857842
AC005944.2	PDZK1IP1	0.957644731	0.002652961
CTB-191K22.5	PDZK1IP1	0.981273633	0.000522732
RP11-20I23.8	PDZK1IP1	0.945508916	0.004373018
CDC37L1-AS1	PDZK1IP1	0.936735705	0.005876953
RP11-556I13.1	PDZK1IP1	0.94380989	0.004647287
AC024028.1	PELI1	0.993591604	6.15E-05
RP11-498J9.2	PELI1	0.984200669	0.000372456
RP11-34P13.14	PELI1	0.975398614	0.000900398
RP11-93O14.2	PELI1	0.956010275	0.002860082
RP11-473M20.11	PELI1	0.967446235	0.001572372
RP11-78A19.3	PELI1	0.962717458	0.002059071
Z69720.3	PELI1	0.961401074	0.002206062
CTD-2139B15.2	PET112L	0.941744916	0.004991633
AC005944.2	PEX13	-0.937348495	0.005764856
AC024028.1	PFKFB3	0.984893147	0.000340602
RP11-498J9.2	PFKFB3	0.995228972	3.41E-05
RP11-34P13.14	PFKFB3	0.974269046	0.000984605
RP11-93O14.2	PFKFB3	0.967594762	0.001558135
RP11-485G7.6	PFKFB3	0.943600293	0.004681689
RP11-473M20.11	PFKFB3	0.949370254	0.003780165
RP11-78A19.3	PFKFB3	0.971093591	0.001241294
Z69720.3	PFKFB3	0.974582393	0.000960872
AC011558.5	LILRB3	0.845475077	0.033972059
AC024028.1	TRMU	-0.917174492	0.010006003
RP11-498J9.2	TRMU	-0.912548628	0.011137211
CTD-2541M15.3	PGBD1	0.963366634	0.001988424
CTA-315H11.2	PGLYRP1	-0.969713195	0.001362045
RP11-473M20.11	TRMU	-0.872765477	0.02325306
RP11-126K1.8	PGLYRP1	0.919876116	0.009372564
RP11-680G24.6	TRMU	-0.908146826	0.012268026
LA16c-359F1.1	TRMU	-0.879566263	0.020883025
RP3-438O4.4	PGLYRP1	0.939558605	0.005369342
CCDC144NL-AS1	CD101	-0.909720026	0.011857798
NUP50-AS1	PGLYRP1	0.93282719	0.006616731
RP11-66D17.5	CD101	0.87374665	0.022903629
PSMD5-AS1	PGLYRP1	0.982272436	0.000468614
TOPORS-AS1	PGLYRP1	0.941510263	0.005031526
AC087294.2	PGLYRP1	0.963479655	0.001976249
AP001062.8	PGLYRP1	0.943904321	0.004631829
RP11-455F5.3	PGLYRP1	0.970386724	0.001302435
RP11-326C3.2	PGLYRP1	0.995585164	2.92E-05
AP006621.8	PGLYRP1	0.98766903	0.000227142

JHDM1D-AS1	PGLYRP1	0.969967151	0.001339414
RP11-20I23.6	PGLYRP1	0.979946872	0.00059916
RP11-160E2.19	PGLYRP1	0.994261918	4.93E-05
AC005786.7	PGLYRP1	0.960240629	0.002339785
AC005944.2	PGLYRP1	0.952572584	0.003320699
CTB-191K22.5	PGLYRP1	0.921960177	0.008897681
RP11-20I23.8	PGLYRP1	0.972986197	0.001084762
CDC37L1-AS1	PGLYRP1	0.946421135	0.004229138
RP5-1142A6.10	PGLYRP1	0.978352426	0.000697854
RP11-556I13.1	PGLYRP1	0.969949189	0.001341008
AC011558.5	PGLYRP1	0.91851178	0.009689941
RP11-118G23.2	PGM3	0.962028111	0.002135421
LL21NC02-21A1.1	PGM3	-0.935412593	0.006122585
AC011558.5	CD101	0.915356412	0.010443589
RP11-680G24.6	PGRMC1	0.917790591	0.009859779
AC024028.1	PHACTR1	0.955756158	0.002892972
RP11-498J9.2	PHACTR1	0.997984799	6.09E-06
RP11-34P13.14	PHACTR1	0.984302028	0.000367705
RP11-126K1.8	IL6R	0.855633501	0.029758109
RP3-438O4.4	IL6R	0.873147765	0.023116614
NUP50-AS1	IL6R	0.866655116	0.025485794
RP11-93O14.2	PHACTR1	0.987570463	0.00023078
TOPORS-AS1	IL6R	0.882627268	0.019856053
AC087294.2	IL6R	0.908723272	0.012116928
AP001062.8	IL6R	0.881267211	0.020309296
RP11-485G7.6	PHACTR1	0.960491053	0.002310599
RP11-78A19.3	PHACTR1	0.983461469	0.000408023
Z69720.3	PHACTR1	0.990661612	0.000130401
RP4-784A16.3	PHACTR2	0.92793921	0.007602039
RP11-160E2.19	PHC3	0.938511552	0.005555005
AC011558.5	PHC3	0.96887769	0.001437825
AC005786.7	IL6R	0.905261353	0.013037958
AC005944.2	IL6R	0.908221401	0.012248427
CTB-191K22.5	IL6R	0.853091247	0.030787967
CTA-315H11.2	PHF11	-0.959506256	0.002426415
CDC37L1-AS1	IL6R	0.883327809	0.019624506
RP11-126K1.8	PHF11	0.949685272	0.00373367
RP3-438O4.4	PHF11	0.938919167	0.00548236
NUP50-AS1	PHF11	0.953128136	0.003243969
CCDC144NL-AS1	TNFRSF10C	-0.891950994	0.016881168
PSMD5-AS1	PHF11	0.995808801	2.63E-05
TOPORS-AS1	PHF11	0.935348414	0.006134625
AC087294.2	PHF11	0.9681596	0.001504576
AP001062.8	PHF11	0.959434665	0.002434944
RP11-455F5.3	PHF11	0.975392642	0.000900833
RP11-326C3.2	PHF11	0.989123208	0.000176814
AP006621.8	PHF11	0.996396133	1.95E-05
JHDM1D-AS1	PHF11	0.969025943	0.00142423
RP11-20I23.6	PHF11	0.978864423	0.000665348
RP11-160E2.19	PHF11	0.982955202	0.000433312
AC005786.7	PHF11	0.963029741	0.002024935
AC005944.2	PHF11	0.979190539	0.000645045
CTB-191K22.5	PHF11	0.947897808	0.004001238
RP11-20I23.8	PHF11	0.973424398	0.001050009
CDC37L1-AS1	PHF11	0.943396669	0.004715229
RP5-1142A6.10	PHF11	0.976854808	0.00079735
RP11-556I13.1	PHF11	0.968846763	0.001440669
RP11-165D6.1	PHF16	0.925446322	0.008130182
AC011558.5	PHF21A	0.933254202	0.006533826
RP11-93O14.2	PHKA1	0.940665223	0.005176476
RP11-485G7.6	PHKA1	0.932582227	0.006664522
RP11-78A19.3	PHKA1	0.935541246	0.006098486
AC011558.5	TNFRSF10C	0.862868584	0.026918158

CCDC144NL-AS1	ITIH4	-0.903406955	0.013544707
RP11-680G24.6	PHKA1	0.945688815	0.004344456
RP11-66D17.5	ITIH4	0.89729018	0.015282202
LA16c-359F1.1	PHKA1	0.985684762	0.000305922
AC024028.1	PHLDA1	0.961688536	0.002173536
RP11-498J9.2	PHLDA1	0.999731828	1.08E-07
RP11-34P13.14	PHLDA1	0.981936313	0.000486498
RP11-93O14.2	PHLDA1	0.98502427	0.000334729
RP11-485G7.6	PHLDA1	0.963699973	0.001952622
RP11-78A19.3	PHLDA1	0.983955126	0.000384092
Z69720.3	PHLDA1	0.989286335	0.000171559
AC024028.1	PHLDA2	0.962464488	0.00208693
RP11-498J9.2	PHLDA2	0.999924408	8.57E-09
RP11-34P13.14	PHLDA2	0.979971925	0.000597669
RP11-93O14.2	PHLDA2	0.984625398	0.00035275
RP11-485G7.6	PHLDA2	0.965241287	0.001791255
RP11-78A19.3	PHLDA2	0.984164046	0.000374181
Z69720.3	PHLDA2	0.987575716	0.000230585
AC024028.1	PHLDA3	0.939700063	0.005344496
RP11-498J9.2	PHLDA3	0.99532767	3.27E-05
RP11-34P13.14	PHLDA3	0.961050069	0.0022461
RP11-93O14.2	PHLDA3	0.978433931	0.000692628
RP11-485G7.6	PHLDA3	0.982543335	0.000454443
AC011558.5	ITIH4	0.890778795	0.017242443
RP11-78A19.3	PHLDA3	0.977919517	0.000725939
Z69720.3	PHLDA3	0.984107311	0.000376859
AC024028.1	PHLDB1	0.918617524	0.009665159
RP11-498J9.2	PHLDB1	0.974848553	0.000940938
RP11-34P13.14	PHLDB1	0.988943777	0.000182684
RP11-93O14.2	PHLDB1	0.979694259	0.000614298
RP11-485G7.6	PHLDB1	0.926243557	0.007959401
LA16c-359F1.1	FRMD4B	0.843133322	0.034980711
RP11-78A19.3	PHLDB1	0.966543382	0.001660293
RP11-680G24.6	PHLDB1	0.918872447	0.009605542
LA16c-359F1.1	PHLDB1	0.91796655	0.009818209
Z69720.3	PHLDB1	0.990165794	0.000144592
RP11-118G23.2	PHLPP1	0.923942658	0.008457094
RP11-485G7.6	AKT3	0.90796691	0.01231537
RP11-680G24.6	PHLPP1	0.96331652	0.001993834
CTA-315H11.2	PHOSPHO1	-0.943760795	0.004655334
RP11-66D17.5	PHOSPHO1	0.953860913	0.003144112
RP11-126K1.8	PHOSPHO1	0.975805637	0.000870969
RP3-438O4.4	PHOSPHO1	0.994086613	5.23E-05
NUP50-AS1	PHOSPHO1	0.985700933	0.000305233
PSMD5-AS1	PHOSPHO1	0.982892972	0.000436472
TOPORS-AS1	PHOSPHO1	0.979839427	0.000605576
AC087294.2	PHOSPHO1	0.999422938	4.99E-07
AP001062.8	PHOSPHO1	0.993161517	7.00E-05
RP11-455F5.3	PHOSPHO1	0.999234673	8.78E-07
RP11-326C3.2	PHOSPHO1	0.987315931	0.000240308
AP006621.8	PHOSPHO1	0.984454654	0.000360608
JHDM1D-AS1	PHOSPHO1	0.99991879	9.89E-09
RP11-20I23.6	PHOSPHO1	0.996460429	1.88E-05
RP11-160E2.19	PHOSPHO1	0.941490504	0.005034892
AC005786.7	PHOSPHO1	0.992123111	9.28E-05
AC005944.2	PHOSPHO1	0.967220453	0.001594137
CTB-191K22.5	PHOSPHO1	0.979472395	0.000627749
RP11-20I23.8	PHOSPHO1	0.999755252	8.98E-08
CDC37L1-AS1	PHOSPHO1	0.995318412	3.28E-05
RP5-1142A6.10	PHOSPHO1	0.985998861	0.000292676
RP11-556I13.1	PHOSPHO1	0.999906038	1.32E-08
CTD-2541M15.3	PHOSPHO2	0.934497402	0.006295363
RP11-160E2.19	PHOSPHO2	-0.934265531	0.006339511

AC011558.5	PHOSPHO2	-0.928185932	0.007550709
AC024028.1	PHTF2	0.92890566	0.007401938
RP11-498J9.2	PHTF2	0.982603475	0.000451326
RP11-34P13.14	PHTF2	0.991708805	0.000102831
RP11-473M20.11	TMEM40	0.864038971	0.026471455
RP11-160E2.19	TMEM40	0.87591843	0.02213916
RP11-93O14.2	PHTF2	0.992715571	7.94E-05
RP11-485G7.6	PHTF2	0.940678483	0.005174186
RP11-78A19.3	PHTF2	0.985237336	0.000325296
RP11-680G24.6	PHTF2	0.924813929	0.008266907
LA16c-359F1.1	PHTF2	0.938019864	0.005643256
Z69720.3	PHTF2	0.985406639	0.000317895
CTD-2541M15.3	PHYH	0.923497773	0.008555018
AC011558.5	PHYH	-0.920545663	0.00921869
RP11-680G24.6	ADAMTS7	0.829000853	0.041360994
LA16c-359F1.1	ADAMTS7	0.880710198	0.020496335
AC011558.5	PHYHD1	-0.921318644	0.009042585
CCDC144NL-AS1	HIP1R	-0.848346751	0.032754147
CTA-315H11.2	PI3	-0.963473527	0.001976908
RP11-126K1.8	HIP1R	0.842767246	0.035139643
RP3-438O4.4	HIP1R	0.886238865	0.018676268
NUP50-AS1	HIP1R	0.874117232	0.022772308
PSMD5-AS1	PI3	0.964708831	0.001846223
TOPORS-AS1	HIP1R	0.90282058	0.013706886
AC087294.2	HIP1R	0.911636815	0.011367107
AP001062.8	HIP1R	0.882359761	0.019944814
AC087294.2	PI3	0.931086073	0.006960053
RP11-455F5.3	PI3	0.94094377	0.005128474
RP11-326C3.2	PI3	0.98065956	0.000557462
AP006621.8	PI3	0.971511051	0.001205869
JHDM1D-AS1	PI3	0.939804957	0.005326108
RP11-20I23.6	PI3	0.95490094	0.003005024
RP11-160E2.19	PI3	0.997411404	1.00E-05
AC005944.2	HIP1R	0.916795122	0.010096562
CTB-191K22.5	HIP1R	0.862039285	0.027236824
AC005786.7	PI3	0.928984124	0.007385806
CDC37L1-AS1	HIP1R	0.898297904	0.014989006
AC005944.2	PI3	0.929659275	0.00724771
RP11-20I23.8	PI3	0.94411003	0.004598242
RP5-1142A6.10	PI3	0.956629551	0.002780704
CCDC144NL-AS1	CD8A	-0.90150164	0.014075078
RP11-556I13.1	PI3	0.939777392	0.005330937
RP11-66D17.5	CD8A	0.903443678	0.013534582
AC011558.5	PI3	0.948582692	0.003897642
CTA-315H11.2	PI4K2B	-0.937876025	0.005669202
RP11-66D17.5	PI4K2B	0.958519593	0.00254525
RP11-126K1.8	PI4K2B	0.976249255	0.000839448
RP3-438O4.4	PI4K2B	0.995815359	2.62E-05
NUP50-AS1	PI4K2B	0.987672672	0.000227008
PSMD5-AS1	PI4K2B	0.98079973	0.000549436
TOPORS-AS1	PI4K2B	0.982094989	0.000478014
AC087294.2	PI4K2B	0.999632006	2.03E-07
AP001062.8	PI4K2B	0.994161926	5.10E-05
RP11-455F5.3	PI4K2B	0.998737698	2.39E-06
RP11-326C3.2	PI4K2B	0.98479576	0.000344996
AP006621.8	PI4K2B	0.981874767	0.000489809
JHDM1D-AS1	PI4K2B	0.999605198	2.34E-07
RP11-20I23.6	PI4K2B	0.996139828	2.23E-05
RP11-160E2.19	PI4K2B	0.937322741	0.005769546
AC005786.7	PI4K2B	0.993530946	6.26E-05
AC005944.2	PI4K2B	0.967508125	0.001566432
CTB-191K22.5	PI4K2B	0.981664132	0.000501224
RP11-20I23.8	PI4K2B	0.999359389	6.15E-07

AC011558.5	CD8A	0.886704139	0.018526798
CCDC144NL-AS1	MFSD2B	-0.844225994	0.034508341
CDC37L1-AS1	PI4K2B	0.99666256	1.67E-05
RP5-1142A6.10	PI4K2B	0.986167219	0.000285695
RP11-556I13.1	PI4K2B	0.999597321	2.43E-07
AC024028.1	PIK3C2B	0.979866905	0.000603932
RP11-34P13.14	PIK3C2B	0.932987828	0.006585483
RP11-473M20.11	PIK3C2B	0.980048271	0.000593136
RP11-93O14.2	PIK3CB	0.917274272	0.00998225
RP11-118G23.2	PIK3CB	0.943367718	0.004720007
RP11-680G24.6	PIK3CB	0.9887071	0.000190574
LA16c-359F1.1	PIK3CB	0.950497922	0.003615032
CTA-315H11.2	PIK3CD	-0.959503275	0.00242677
PSMD5-AS1	PIK3CD	0.962641639	0.002067401
AC087294.2	PIK3CD	0.927065415	0.007785195
RP11-455F5.3	PIK3CD	0.937064791	0.005816623
RP11-160E2.19	MFSD2B	0.914601318	0.010627999
RP11-326C3.2	PIK3CD	0.978210737	0.000706985
AP006621.8	PIK3CD	0.969216182	0.001406879
JHDM1D-AS1	PIK3CD	0.935648131	0.006078499
RMRP	MFSD2B	0.820684223	0.045348349
RP11-20I23.6	PIK3CD	0.952066885	0.00339131
RP11-160E2.19	PIK3CD	0.99767532	8.10E-06
LL21NC02-21A1.1	MFSD2B	0.866302216	0.025617716
AC005786.7	PIK3CD	0.926278402	0.007951977
AC005944.2	PIK3CD	0.928694466	0.007445443
AC024028.1	FHL1	0.91133564	0.011443541
RP11-20I23.8	PIK3CD	0.940259219	0.005246835
AC011558.5	FHL1	0.8691752	0.024553151
RP11-118G23.2	MUTYH	-0.856531305	0.029398372
RP11-680G24.6	MUTYH	-0.828660785	0.041520676
RP5-1142A6.10	PIK3CD	0.955107077	0.002977824
RP11-556I13.1	PIK3CD	0.93561556	0.006084586
AC011558.5	PIK3CD	0.952770619	0.003293246
CTA-315H11.2	PIK3IP1	-0.966594967	0.001655206
PSMD5-AS1	MUTYH	0.832046087	0.03994391
TOPORS-AS1	MUTYH	0.90454939	0.013231412
AC087294.2	MUTYH	0.901438682	0.014092771
RP11-126K1.8	PIK3IP1	0.934560863	0.006283307
RP11-455F5.3	MUTYH	0.887128529	0.018390964
AP006621.8	MUTYH	0.822001776	0.04470526
JHDM1D-AS1	MUTYH	0.886688447	0.01853183
RP11-20I23.6	MUTYH	0.87008099	0.024221975
AC005786.7	MUTYH	0.902452562	0.013809148
AC005944.2	MUTYH	0.863468292	0.026688823
RP3-438O4.4	PIK3IP1	0.945120916	0.004434931
RP11-20I23.8	MUTYH	0.883218667	0.019660495
CDC37L1-AS1	MUTYH	0.915985507	0.010291147
NUP50-AS1	PIK3IP1	0.945021594	0.004450848
RP5-1142A6.10	MUTYH	0.857552796	0.028991596
RP11-556I13.1	MUTYH	0.886625617	0.018551983
PSMD5-AS1	PIK3IP1	0.989413603	0.000167514
TOPORS-AS1	PIK3IP1	0.945898834	0.004311229
RP11-66D17.5	UBR2	0.890824593	0.017228259
AC087294.2	PIK3IP1	0.96981727	0.001352748
AP001062.8	PIK3IP1	0.954223441	0.003095278
RP11-455F5.3	PIK3IP1	0.976429434	0.00082681
RP11-326C3.2	PIK3IP1	0.9964676	1.87E-05
AP006621.8	PIK3IP1	0.993165852	6.99E-05
JHDM1D-AS1	PIK3IP1	0.974192066	0.00099048
RP11-20I23.6	PIK3IP1	0.983850083	0.000389124
RP11-160E2.19	PIK3IP1	0.99154929	0.00010682
AC005786.7	PIK3IP1	0.966373517	0.001677099

AC005944.2	PIK3IP1	0.964488409	0.001869218
CTB-191K22.5	PIK3IP1	0.935651188	0.006077928
RP11-20I23.8	PIK3IP1	0.977513957	0.000752748
CDC37L1-AS1	PIK3IP1	0.950653898	0.003592477
RP5-1142A6.10	PIK3IP1	0.982217743	0.000471502
RP11-556I13.1	PIK3IP1	0.974124559	0.000995645
RMRP	PIK3R2	0.928326865	0.007521464
RMRP	UBR2	0.839067763	0.03676477
RP11-160E2.19	PIK3R5	0.963119719	0.002015151
AC011558.5	PIK3R5	0.985042877	0.0003339
CTA-315H11.2	PIM1	-0.95520981	0.002964314
RP11-66D17.5	PIM1	0.946556842	0.004207935
AC011558.5	UBR2	0.811819755	0.049785806
CCDC144NL-AS1	MEGF6	-0.906299144	0.012758436
RP11-126K1.8	PIM1	0.976838103	0.000798497
RP11-66D17.5	MEGF6	0.889488009	0.017644514
RP3-438O4.4	PIM1	0.986041744	0.00029089
NUP50-AS1	PIM1	0.983242015	0.000418892
PSMD5-AS1	PIM1	0.991920724	9.76E-05
TOPORS-AS1	PIM1	0.971948368	0.001169304
AC087294.2	PIM1	0.997512742	9.27E-06
AP001062.8	PIM1	0.9910293	0.000120349
RP11-455F5.3	PIM1	0.999330265	6.73E-07
RP11-326C3.2	PIM1	0.992704536	7.96E-05
AP006621.8	PIM1	0.99325965	6.80E-05
JHDM1D-AS1	PIM1	0.998085022	5.50E-06
RP11-20I23.6	PIM1	0.996875948	1.46E-05
RP11-160E2.19	PIM1	0.954995538	0.002992526
AC005786.7	PIM1	0.989127917	0.000176661
AC005944.2	PIM1	0.975224006	0.00091317
CTB-191K22.5	PIM1	0.977803958	0.000733529
RP11-20I23.8	PIM1	0.998943523	1.67E-06
CDC37L1-AS1	PIM1	0.988238327	0.000206692
RP5-1142A6.10	PIM1	0.987194174	0.000244934
RP11-556I13.1	PIM1	0.998023896	5.85E-06
AC011558.5	PION	0.956502844	0.002796855
AC011558.5	MEGF6	0.90151038	0.014072623
CCDC144NL-AS1	UBL3	-0.886697304	0.01852899
CTD-2531D15.5	UBL3	-0.852158041	0.031170158
CTA-315H11.2	UBL3	-0.859909641	0.028063305
CTD-2139B15.2	UBL3	-0.819794435	0.045785067
RP11-326C3.2	UBL3	0.834727742	0.03871518
RP11-160E2.19	UBL3	0.898959324	0.014798054
CTA-315H11.2	PIP5KL1	-0.94876097	0.003870895
AC024028.1	GAS7	0.896402015	0.015542879
RP11-66D17.5	PIP5KL1	0.951683825	0.003445283
AC011558.5	GAS7	0.891557431	0.017002055
RP11-473M20.11	PION	0.873179913	0.023105157
RP11-160E2.19	PION	0.840903267	0.035954145
RP11-126K1.8	PIP5KL1	0.976565207	0.000817349
RP3-438O4.4	PIP5KL1	0.98957024	0.000162603
NUP50-AS1	PIP5KL1	0.985809208	0.000300639
RP11-126K1.8	AUTS2	0.81159144	0.049902635
RP3-438O4.4	AUTS2	0.833891067	0.039096613
NUP50-AS1	AUTS2	0.822259872	0.044579786
PSMD5-AS1	PIP5KL1	0.989532788	0.00016377
TOPORS-AS1	AUTS2	0.844036721	0.034589949
AC087294.2	AUTS2	0.87300439	0.023167742
AP001062.8	AUTS2	0.839965749	0.036367127
RP11-455F5.3	AUTS2	0.886795439	0.018497535
TOPORS-AS1	PIP5KL1	0.977185432	0.000774819
AC087294.2	PIP5KL1	0.998771242	2.26E-06
JHDM1D-AS1	AUTS2	0.886592395	0.018562644

RP11-20I23.6	AUTS2	0.904804917	0.013161822
AP001062.8	PIP5KL1	0.992573971	8.25E-05
AC005786.7	AUTS2	0.86831509	0.024869605
AC005944.2	AUTS2	0.872683033	0.023282536
RP11-20I23.8	AUTS2	0.891554234	0.017003039
CDC37L1-AS1	AUTS2	0.846887292	0.033370503
RP5-1142A6.10	AUTS2	0.907049844	0.012558065
RP11-556I13.1	AUTS2	0.886596519	0.01856132
RP11-455F5.3	PIP5KL1	0.999645759	1.88E-07
CCDC144NL-AS1	IL23A	-0.890993089	0.017176122
RP11-326C3.2	PIP5KL1	0.991287438	0.000113532
RP3-438O4.4	IL23A	0.81191587	0.049736662
PSMD5-AS1	IL23A	0.910707946	0.01160364
TOPORS-AS1	IL23A	0.832623989	0.039677597
AC087294.2	IL23A	0.854581661	0.030182196
AP001062.8	IL23A	0.822434322	0.04449507
RP11-455F5.3	IL23A	0.868659449	0.024742676
AP006621.8	PIP5KL1	0.99059364	0.000132303
JHDM1D-AS1	PIP5KL1	0.999007887	1.48E-06
JHDM1D-AS1	IL23A	0.866761142	0.025446222
RP11-20I23.6	IL23A	0.891097316	0.01714391
RP11-20I23.6	PIP5KL1	0.99797115	6.17E-06
AC005786.7	IL23A	0.856628246	0.029359654
AC005944.2	IL23A	0.868700072	0.024727723
RP11-20I23.8	IL23A	0.873131509	0.023122408
CDC37L1-AS1	IL23A	0.823962744	0.043756054
RP5-1142A6.10	IL23A	0.899897333	0.014529274
RP11-556I13.1	IL23A	0.866731642	0.02545723
RP11-160E2.19	PIP5KL1	0.951800329	0.003428824
AC005786.7	PIP5KL1	0.992306631	8.86E-05
CCDC144NL-AS1	APOBEC3A	-0.880353215	0.020616637
AC005944.2	PIP5KL1	0.974987172	0.000930638
CTB-191K22.5	PIP5KL1	0.980025595	0.000594481
RP11-20I23.8	PIP5KL1	0.999681337	1.52E-07
CDC37L1-AS1	PIP5KL1	0.991258654	0.000114283
RP5-1142A6.10	PIP5KL1	0.98919036	0.000174641
RP11-556I13.1	PIP5KL1	0.998963568	1.61E-06
RP11-473M20.11	PITPNM1	0.944090642	0.004601402
CTA-315H11.2	PITPNM2	-0.961070295	0.002243784
PSMD5-AS1	PITPNM2	0.936565298	0.005908313
RP11-326C3.2	PITPNM2	0.96116521	0.002232927
AP006621.8	PITPNM2	0.945796787	0.004327358
RP11-20I23.6	PITPNM2	0.927485061	0.007696968
RP11-160E2.19	PITPNM2	0.990945445	0.000122606
RP5-1142A6.10	PITPNM2	0.928936765	0.007395541
AC011558.5	PITPNM2	0.963655613	0.001957368
RP11-767C1.1	PKDCC	0.938430235	0.005569553
CTC-1337H24.3	PKDCC	0.939023238	0.005463887
AC011558.5	PKLR	-0.931241558	0.00692905
RP11-498J9.2	PLA2G15	0.93816754	0.005616679
RP11-93O14.2	PLA2G15	0.922498896	0.00877688
RP11-485G7.6	PLA2G15	0.953303677	0.003219908
Z69720.3	PLA2G15	0.932597557	0.006661526
AC011558.5	APOBEC3A	0.834867946	0.038651433
CCDC144NL-AS1	TBCEL	-0.874963631	0.022473725
RP11-680G24.6	PLA2G4A	0.945469345	0.004379313
CCDC144NL-AS1	PLA2G4B	-0.918293137	0.009741279
CTA-315H11.2	PLA2G4B	-0.973716168	0.001027181
RP11-126K1.8	PLA2G4B	0.933531916	0.006480181
RP3-438O4.4	PLA2G4B	0.93941852	0.005394003
NUP50-AS1	PLA2G4B	0.939477994	0.005383526
PSMD5-AS1	PLA2G4B	0.989260629	0.000172382
TOPORS-AS1	PLA2G4B	0.935904933	0.006030609

AC087294.2	PLA2G4B	0.966267263	0.001687654
AP001062.8	PLA2G4B	0.95044936	0.003622069
RP11-455F5.3	PLA2G4B	0.973954594	0.001008711
RP11-326C3.2	PLA2G4B	0.995032465	3.70E-05
AP006621.8	PLA2G4B	0.993435678	6.45E-05
JHDM1D-AS1	PLA2G4B	0.971171567	0.001234638
RP11-20I23.6	PLA2G4B	0.979542218	0.0006235
RP11-160E2.19	PLA2G4B	0.990634992	0.000131144
AC005786.7	PLA2G4B	0.959308528	0.002450005
AC005944.2	PLA2G4B	0.96116699	0.002232724
CTB-191K22.5	PLA2G4B	0.931008691	0.006975509
RP11-20I23.8	PLA2G4B	0.974510499	0.000966292
CDC37L1-AS1	PLA2G4B	0.945802827	0.004326403
RP5-1142A6.10	PLA2G4B	0.975658586	0.000881545
AC011558.5	TBCEL	0.812699166	0.049336997
RP11-556I13.1	PLA2G4B	0.971086661	0.001241886
RP11-118G23.2	PLAGL1	0.941646401	0.005008363
RP11-126K1.8	FRY	0.853576918	0.030589944
RP3-438O4.4	FRY	0.861992311	0.027254928
NUP50-AS1	FRY	0.85989955	0.028067249
RP11-498J9.2	PLAU	0.979983825	0.000596961
TOPORS-AS1	FRY	0.863289341	0.026757159
AC087294.2	FRY	0.900979943	0.014222013
AP001062.8	FRY	0.874732083	0.022555221
RP11-455F5.3	FRY	0.913840018	0.010815508
RP11-34P13.14	PLAU	0.925726069	0.008070055
RP11-93O14.2	PLAU	0.952168566	0.003377054
JHDM1D-AS1	FRY	0.911178303	0.011483571
RP11-485G7.6	PLAU	0.98409999	0.000377206
RP11-78A19.3	PLAU	0.951307936	0.003498653
AC005786.7	FRY	0.894543192	0.016095308
AC005944.2	FRY	0.911606125	0.011374884
CTB-191K22.5	FRY	0.850717303	0.031764579
RP11-20I23.8	FRY	0.916537578	0.010158265
CDC37L1-AS1	FRY	0.8747194	0.022559689
Z69720.3	PLAU	0.966943708	0.001621017
RP11-556I13.1	FRY	0.911109796	0.011501021
AC024028.1	PLAUR	0.972972885	0.001085826
CCDC144NL-AS1	GCLC	-0.821136211	0.045127255
CTA-315H11.2	GCLC	-0.855026145	0.03000264
RP11-498J9.2	PLAUR	0.998849165	1.99E-06
RP11-34P13.14	PLAUR	0.972934085	0.001088932
RP11-93O14.2	PLAUR	0.974901683	0.000936983
RP11-485G7.6	PLAUR	0.960784781	0.002276597
PSMD5-AS1	GCLC	0.900788877	0.01427601
RP11-473M20.11	PLAUR	0.930123804	0.007153432
RP11-78A19.3	PLAUR	0.97730316	0.000766874
Z69720.3	PLAUR	0.980912837	0.000543003
CTA-315H11.2	PLB1	-0.960471245	0.002312901
RP11-326C3.2	GCLC	0.903160821	0.013612669
AP006621.8	GCLC	0.903437701	0.01353623
RP11-126K1.8	PLB1	0.934039813	0.006382631
RP3-438O4.4	PLB1	0.95464274	0.003039265
NUP50-AS1	PLB1	0.94905289	0.003827293
AC005944.2	GCLC	0.876920759	0.021790517
PSMD5-AS1	PLB1	0.985661305	0.000306923
TOPORS-AS1	PLB1	0.958817863	0.002509031
AC087294.2	PLB1	0.974755723	0.000947867
AP001062.8	PLB1	0.958092337	0.002597578
LL21NC02-21A1.1	GCLC	0.819584883	0.045888201
RP5-1142A6.10	GCLC	0.901059156	0.014199656
RP11-455F5.3	PLB1	0.979902771	0.000601789
AC024028.1	TTC39B	0.835329204	0.038442061

RP11-473M20.11	TTC39B	0.908739324	0.012112734
RP11-160E2.19	TTC39B	0.822884454	0.044276825
RP11-326C3.2	PLB1	0.998116566	5.32E-06
CCDC144NL-AS1	VSTM1	-0.881764013	0.020143168
AP006621.8	PLB1	0.99017036	0.000144458
JHDM1D-AS1	PLB1	0.979520391	0.000624827
RP11-20I23.6	PLB1	0.988485024	0.000198129
RP11-160E2.19	PLB1	0.98852599	0.000196724
AC005786.7	PLB1	0.97344978	0.001048013
AC005944.2	PLB1	0.960019497	0.002365708
CTB-191K22.5	PLB1	0.937500967	0.005737129
RP11-20I23.8	PLB1	0.982071119	0.000479286
CDC37L1-AS1	PLB1	0.959079157	0.002477512
RP5-1142A6.10	PLB1	0.987501883	0.000233328
RP11-556I13.1	PLB1	0.979502635	0.000625907
AC011558.5	PLBD1	0.964969932	0.001819166
CTA-315H11.2	PLCB2	-0.972693412	0.001108294
PSMD5-AS1	PLCB2	0.962751172	0.002055372
AC087294.2	PLCB2	0.937139078	0.005803046
RP11-455F5.3	PLCB2	0.945734459	0.004337224
RP11-326C3.2	PLCB2	0.983638285	0.000399369
AP006621.8	PLCB2	0.970431959	0.001298478
JHDM1D-AS1	PLCB2	0.947527116	0.004057866
RP11-20I23.6	PLCB2	0.959626488	0.002412126
RP11-160E2.19	PLCB2	0.995957022	2.45E-05
AC005786.7	PLCB2	0.933743476	0.00643946
AC011558.5	VSTM1	0.879040041	0.021062066
AC005944.2	PLCB2	0.926029812	0.008005016
RP11-20I23.8	PLCB2	0.950792556	0.003572484
RP11-66D17.5	SH3YL1	0.845225547	0.034078876
RP11-126K1.8	SH3YL1	0.899754675	0.014569999
CDC37L1-AS1	PLCB2	0.922048013	0.00887793
NUP50-AS1	SH3YL1	0.9119731	0.011282054
RP5-1142A6.10	PLCB2	0.958416347	0.002557847
RP11-556I13.1	PLCB2	0.947571244	0.004051104
AC011558.5	PLCB2	0.941957612	0.004955608
RP5-1033H22.2	PLCB4	0.964984966	0.001817614
RP11-21J18.1	PLCB4	0.952640372	0.003311289
RP11-298J23.8	PLCB4	0.944738712	0.004496336
RP11-165D6.1	PLCB4	0.977163251	0.000776321
CTA-315H11.2	PLCD1	-0.947646424	0.004039597
RP11-66D17.5	PLCD1	0.938910169	0.005483958
RP11-126K1.8	PLCD1	0.961170086	0.00223237
RP3-438O4.4	PLCD1	0.98807428	0.000212486
AC005944.2	SH3YL1	0.910916433	0.011550345
CTB-191K22.5	SH3YL1	0.89794727	0.015090712
NUP50-AS1	PLCD1	0.977511452	0.000752916
PSMD5-AS1	PLCD1	0.984128823	0.000375842
TOPORS-AS1	PLCD1	0.982850443	0.000438639
AC087294.2	PLCD1	0.995618003	2.88E-05
AC011558.5	SH3YL1	0.889722542	0.017571128
CCDC144NL-AS1	ITK	-0.89133353	0.017071014
AP001062.8	PLCD1	0.984745213	0.000347288
RP11-455F5.3	PLCD1	0.996212007	2.15E-05
RP11-326C3.2	PLCD1	0.994454875	4.60E-05
AP006621.8	PLCD1	0.986829106	0.000259066
JHDM1D-AS1	PLCD1	0.997845882	6.96E-06
RP11-20I23.6	PLCD1	0.999254954	8.32E-07
RP11-160E2.19	PLCD1	0.960493233	0.002310346
AC005786.7	PLCD1	0.993083088	7.16E-05
AC005944.2	PLCD1	0.966401248	0.00167435
CTB-191K22.5	PLCD1	0.96857143	0.001466111
RP11-20I23.8	PLCD1	0.998361063	4.03E-06

CDC37L1-AS1	PLCD1	0.990312926	0.000140305
RP5-1142A6.10	PLCD1	0.993386233	6.55E-05
RP11-556I13.1	PLCD1	0.997867884	6.81E-06
CTA-315H11.2	PLCG1	-0.950600495	0.003600192
RP11-66D17.5	PLCG1	0.940795142	0.00515406
RP11-126K1.8	PLCG1	0.96521383	0.001794069
RP3-438O4.4	PLCG1	0.993036373	7.26E-05
NUP50-AS1	PLCG1	0.975649706	0.000882186
PSMD5-AS1	PLCG1	0.975495535	0.000893346
TOPORS-AS1	PLCG1	0.975365101	0.000902842
AC087294.2	PLCG1	0.995941331	2.47E-05
AC011558.5	ITK	0.858328583	0.028684457
CCDC144NL-AS1	ODF3B	-0.844136737	0.034546814
AP001062.8	PLCG1	0.986050882	0.00029051
RP11-66D17.5	ODF3B	0.910635122	0.011622285
RP11-455F5.3	PLCG1	0.995741396	2.72E-05
RP11-326C3.2	PLCG1	0.986146146	0.000286564
AP006621.8	PLCG1	0.978876506	0.00066459
JHDM1D-AS1	PLCG1	0.998731911	2.41E-06
RP11-20I23.6	PLCG1	0.993164404	6.99E-05
RP11-160E2.19	PLCG1	0.939433759	0.005391318
AC005786.7	PLCG1	0.986438669	0.000274618
AC005944.2	PLCG1	0.953939125	0.003133545
CTB-191K22.5	PLCG1	0.968790618	0.001445839
RP11-20I23.8	PLCG1	0.997760078	7.52E-06
CDC37L1-AS1	PLCG1	0.995922689	2.49E-05
RP5-1142A6.10	PLCG1	0.980240503	0.000581799
RP11-556I13.1	PLCG1	0.998776968	2.24E-06
AC024028.1	PLCG2	0.981828382	0.000492311
RP11-473M20.11	PLCG2	0.996229721	2.13E-05
CTA-315H11.2	PLCL2	-0.960988548	0.002253154
RP11-66D17.5	PLCL2	0.930317868	0.007114225
RP11-126K1.8	PLCL2	0.962790823	0.002051026
RP3-438O4.4	PLCL2	0.983151812	0.000423401
NUP50-AS1	PLCL2	0.973248974	0.001063854
AC011558.5	ODF3B	0.905613042	0.012942905
RP3-337H4.8	PIGQ	0.89661823	0.015479224
RP11-767C1.1	PIGQ	0.864882822	0.026151584
CTC-1337H24.3	PIGQ	0.857297276	0.029093097
CCDC144NL-AS1	CD27	-0.879321286	0.020966285
PSMD5-AS1	PLCL2	0.988214203	0.000207539
TOPORS-AS1	PLCL2	0.973135376	0.001072868
AC087294.2	PLCL2	0.994221868	5.00E-05
AP001062.8	PLCL2	0.982829047	0.000439731
RP11-455F5.3	PLCL2	0.996444767	1.89E-05
RP11-326C3.2	PLCL2	0.996968656	1.38E-05
AP006621.8	PLCL2	0.991553355	0.000106717
JHDM1D-AS1	PLCL2	0.997202094	1.17E-05
RP11-20I23.6	PLCL2	0.997386532	1.02E-05
RP11-160E2.19	PLCL2	0.964673148	0.001849936
AC005786.7	PLCL2	0.98725506	0.000242615
AC005944.2	PLCL2	0.965925865	0.001721789
CTB-191K22.5	PLCL2	0.965194661	0.001796036
RP11-20I23.8	PLCL2	0.997854495	6.90E-06
CDC37L1-AS1	PLCL2	0.986469068	0.000273391
RP5-1142A6.10	PLCL2	0.988925325	0.000183293
RP11-556I13.1	PLCL2	0.997197855	1.18E-05
AC011558.5	PLEC	0.974204175	0.000989554
AC024028.1	PLEK	0.992316166	8.83E-05
RP11-498J9.2	PLEK	0.983422903	0.000409923
RP11-34P13.14	PLEK	0.979595775	0.000620251
RP11-93O14.2	PLEK	0.953595726	0.003180072
AC011558.5	CD27	0.831156583	0.040355447

RP11-473M20.11	PLEK	0.961162994	0.00223318
RP11-78A19.3	PLEK	0.95372889	0.00316199
Z69720.3	PLEK	0.968229716	0.001497993
AC024028.1	PLEKHA2	0.956425945	0.00280668
RP11-498J9.2	PLEKHA2	0.978583825	0.000683068
RP11-34P13.14	PLEKHA2	0.979806748	0.000607534
RP11-93O14.2	PLEKHA2	0.981949165	0.000485808
LA16c-359F1.1	XYLT1	0.847196494	0.033239469
RP11-485G7.6	PLEKHA2	0.931609804	0.00685589
RP11-78A19.3	PLEKHA2	0.989460852	0.000166025
LA16c-359F1.1	PLEKHA2	0.927945406	0.007600748
Z69720.3	PLEKHA2	0.95654963	0.002790886
AC024028.1	PLEKHG1	0.940902319	0.005135603
RP11-498J9.2	PLEKHG1	0.995591251	2.91E-05
RP11-34P13.14	PLEKHG1	0.972172938	0.001150744
RP11-93O14.2	PLEKHG1	0.99411862	5.18E-05
RP11-485G7.6	PLEKHG1	0.978131877	0.000712093
RP11-78A19.3	PLEKHG1	0.99385284	5.66E-05
LA16c-359F1.1	PLEKHG1	0.9273511	0.007725078
Z69720.3	PLEKHG1	0.978899194	0.000663169
AC024028.1	PLEKHG2	0.974218673	0.000988447
RP11-34P13.14	PLEKHG2	0.92182006	0.008929233
RP11-473M20.11	PLEKHG2	0.975673495	0.00088047
CTA-315H11.2	PLEKHG3	-0.947835856	0.004010675
RP11-126K1.8	PLEKHG3	0.9184858	0.009696034
RP3-438O4.4	PLEKHG3	0.949223667	0.003801897
NUP50-AS1	PLEKHG3	0.942466749	0.004869893
PSMD5-AS1	PLEKHG3	0.978293736	0.000701629
TOPORS-AS1	PLEKHG3	0.961010345	0.002250654
AC087294.2	PLEKHG3	0.967687588	0.001549269
AP001062.8	PLEKHG3	0.948968316	0.0038399
CCDC144NL-AS1	BTN3A3	-0.900541572	0.014346048
RP11-455F5.3	PLEKHG3	0.971861663	0.00117651
RP3-438O4.4	BTN3A3	0.821784557	0.044810989
NUP50-AS1	BTN3A3	0.818075116	0.046634442
RP11-326C3.2	PLEKHG3	0.994036963	5.32E-05
TOPORS-AS1	BTN3A3	0.836081294	0.038101819
AC087294.2	BTN3A3	0.864048233	0.026467934
AP001062.8	BTN3A3	0.832720399	0.03963325
RP11-455F5.3	BTN3A3	0.878157912	0.021363839
AP006621.8	PLEKHG3	0.982408067	0.000461492
JHDM1D-AS1	PLEKHG3	0.97273845	0.001104658
JHDM1D-AS1	BTN3A3	0.876193619	0.022043177
RP11-20I23.6	BTN3A3	0.898269023	0.014997371
RP11-20I23.6	PLEKHG3	0.985815177	0.000300387
AC005786.7	BTN3A3	0.863078441	0.0268378
AC005944.2	BTN3A3	0.87749363	0.02159244
RP11-20I23.8	BTN3A3	0.882325865	0.019956074
CDC37L1-AS1	BTN3A3	0.83471962	0.038718874
RP5-1142A6.10	BTN3A3	0.904231349	0.013318274
RP11-556I13.1	BTN3A3	0.876156886	0.022055977
RP11-160E2.19	PLEKHG3	0.991539746	0.000107061
CCDC144NL-AS1	UNKL	-0.857619918	0.028964961
AC005786.7	PLEKHG3	0.973109281	0.001074944
CTA-315H11.2	UNKL	-0.837936419	0.037268638
RP11-66D17.5	UNKL	0.861711221	0.027363377
AC005944.2	PLEKHG3	0.957293276	0.002696851
RP3-438O4.4	UNKL	0.838062516	0.037212319
NUP50-AS1	UNKL	0.889755038	0.017560972
PSMD5-AS1	UNKL	0.902069074	0.013916098
AC087294.2	UNKL	0.874403404	0.022671145
AP001062.8	UNKL	0.896569541	0.015493547
RP11-455F5.3	UNKL	0.883404656	0.019599185

RP11-326C3.2	UNKL	0.851821988	0.031308333
AP006621.8	UNKL	0.896501484	0.015513579
JHDM1D-AS1	UNKL	0.862869933	0.026917641
RP11-20I23.6	UNKL	0.851999303	0.031235391
AC005786.7	UNKL	0.840228122	0.036251327
AC005944.2	UNKL	0.889925175	0.017507842
CTB-191K22.5	UNKL	0.894980779	0.015964425
RMRP	UNKL	0.83487049	0.038650277
RP11-20I23.8	UNKL	0.866034452	0.025718028
CDC37L1-AS1	UNKL	0.830960828	0.040446279
RP5-1142A6.10	UNKL	0.830076384	0.040857863
RP11-556I13.1	UNKL	0.862279344	0.027144396
CTB-191K22.5	PLEKHG3	0.929910903	0.007196566
RP11-20I23.8	PLEKHG3	0.975745968	0.000875253
RP11-66D17.5	SLC37A3	0.838775014	0.036894844
CDC37L1-AS1	PLEKHG3	0.954172466	0.003102122
RP3-438O4.4	SLC37A3	0.913234515	0.010965778
NUP50-AS1	SLC37A3	0.909950379	0.011798298
RP5-1142A6.10	PLEKHG3	0.989672052	0.000159449
TOPORS-AS1	SLC37A3	0.900810587	0.01426987
RP11-556I13.1	PLEKHG3	0.972761713	0.001102782
AC011558.5	PLEKHG3	0.919829797	0.009383255
RP3-337H4.8	PLEKHH3	0.952192263	0.003373735
CTD-2139B15.2	PLEKHH3	0.934711849	0.006254667
CTA-315H11.2	PLEKHO1	-0.920722698	0.009178211
PSMD5-AS1	PLEKHO1	0.930546658	0.007068137
RP11-326C3.2	PLEKHO1	0.948330222	0.003935676
AP006621.8	PLEKHO1	0.937017391	0.005825293
RP11-160E2.19	PLEKHO1	0.988633049	0.000193077
RP5-1142A6.10	PLEKHO1	0.929154359	0.007350866
CTB-191K22.5	SLC37A3	0.90110242	0.014187452
AC011558.5	PLEKHO1	0.979021476	0.000655531
AC024028.1	PLEKHO2	0.963063509	0.00202126
RP11-498J9.2	PLEKHO2	0.951012813	0.003540838
RP11-473M20.11	PLEKHO2	0.940646372	0.005179733
AC011558.5	SLC37A3	0.890680438	0.017272924
CCDC144NL-AS1	GSDMB	-0.890308443	0.017388439
Z69720.3	PLEKHO2	0.917811685	0.009854791
MIR210HG	PLIN2	0.928985547	0.007385514
RP11-91K8.5	PLIN2	0.965211725	0.001794285
CTD-2139B15.2	PLK1	0.936774204	0.005869879
AC024028.1	PLK2	0.98258118	0.00045248
RP11-498J9.2	PLK2	0.996310819	2.04E-05
RP11-34P13.14	PLK2	0.975197607	0.000915109
RP11-93O14.2	PLK2	0.970056948	0.001331456
RP11-485G7.6	PLK2	0.94791007	0.003999372
RP11-473M20.11	PLK2	0.945716906	0.004340005
RP11-78A19.3	PLK2	0.974159889	0.00099294
Z69720.3	PLK2	0.976386352	0.000829823
AC024028.1	PLK3	0.989370448	0.000168881
RP11-498J9.2	PLK3	0.991915527	9.78E-05
RP11-34P13.14	PLK3	0.977855387	0.000730146
RP11-93O14.2	PLK3	0.959316854	0.00244901
RP11-485G7.6	PLK3	0.929600174	0.007259748
RP11-473M20.11	PLK3	0.955888322	0.002875843
RP11-78A19.3	PLK3	0.962504855	0.002082472
Z69720.3	PLK3	0.977051117	0.000783934
LLNLR-284B4.1	PLK4	-0.917754811	0.009868242
AC011558.5	PLK4	-0.945336027	0.004400553
AC011558.5	GSDMB	0.826102159	0.042731314
RP11-498J9.2	PLOD2	0.979316747	0.000637271
RP11-34P13.14	PLOD2	0.953477004	0.003196237
RP11-93O14.2	PLOD2	0.994844258	3.98E-05

RP11-93O14.2	C5orf25	0.91573787	0.010351025
RP11-485G7.6	C5orf25	0.865672019	0.025854102
RP11-485G7.6	PLOD2	0.976472925	0.000823773
RP11-78A19.3	PLOD2	0.991046246	0.000119896
Z69720.3	C5orf25	0.911597569	0.011377053
CCDC144NL-AS1	C14orf45	-0.871218408	0.023809146
LA16c-359F1.1	PLOD2	0.932385677	0.006702989
Z69720.3	PLOD2	0.957371597	0.002687039
AC024028.1	PLP2	0.954749379	0.0030251
RP11-498J9.2	PLP2	0.995412795	3.15E-05
RP11-34P13.14	PLP2	0.980630197	0.00055915
RP11-93O14.2	PLP2	0.983404879	0.000410812
RP11-485G7.6	PLP2	0.95511902	0.002976252
RP11-78A19.3	PLP2	0.976784503	0.000802183
Z69720.3	PLP2	0.988084521	0.000212122
LLNLR-284B4.1	PLS1	-0.952455812	0.003336939
RP11-77G23.2	PLS1	0.981032785	0.000536221
RP11-326C3.2	PLSCR3	0.920936504	0.00912944
RP11-160E2.19	PLSCR3	0.975268005	0.000909943
AC011558.5	PLSCR3	0.987278142	0.000241739
CTA-315H11.2	PLVAP	-0.944320126	0.004564062
RP11-66D17.5	PLVAP	0.951185486	0.003516126
RP11-126K1.8	PLVAP	0.97255062	0.001119862
RP3-438O4.4	PLVAP	0.994161101	5.10E-05
NUP50-AS1	PLVAP	0.983911865	0.00038616
PSMD5-AS1	PLVAP	0.981751549	0.000496471
LL21NC02-21A1.1	C14orf45	0.812250339	0.049565821
TOPORS-AS1	PLVAP	0.980933037	0.000541858
AC087294.2	PLVAP	0.998971582	1.59E-06
AC011558.5	C14orf45	0.814311719	0.048518928
CCDC144NL-AS1	TREML3	-0.902818475	0.01370747
AP001062.8	PLVAP	0.991606302	0.000105386
RP11-66D17.5	TREML3	0.899851359	0.014542392
RP11-455F5.3	PLVAP	0.998701406	2.53E-06
RP11-326C3.2	PLVAP	0.988119353	0.000210886
AP006621.8	PLVAP	0.983698594	0.000396438
JHDM1D-AS1	PLVAP	0.999980304	5.82E-10
RP11-20I23.6	PLVAP	0.996857883	1.48E-05
RP11-160E2.19	PLVAP	0.943304892	0.004730384
AC005786.7	PLVAP	0.992319335	8.83E-05
AC005944.2	PLVAP	0.965277076	0.00178759
CTB-191K22.5	PLVAP	0.977133485	0.000778338
RP11-20I23.8	PLVAP	0.999740859	1.01E-07
CDC37L1-AS1	PLVAP	0.99565713	2.82E-05
RP5-1142A6.10	PLVAP	0.98678946	0.000260625
RP11-556I13.1	PLVAP	0.999984196	3.75E-10
CTA-315H11.2	PLXDC1	-0.954833147	0.003013996
RP11-66D17.5	PLXDC1	0.939329977	0.005409619
RP11-126K1.8	PLXDC1	0.967228358	0.001593373
RP3-438O4.4	PLXDC1	0.987878776	0.000219496
NUP50-AS1	PLXDC1	0.978343445	0.000698431
PSMD5-AS1	PLXDC1	0.986880874	0.000257038
TOPORS-AS1	PLXDC1	0.977190197	0.000774497
AC011558.5	TREML3	0.890001679	0.017483976
CCDC144NL-AS1	MAN1C1	-0.902761348	0.01372332
AC087294.2	PLXDC1	0.996758342	1.57E-05
RP11-66D17.5	MAN1C1	0.886275258	0.018664556
AP001062.8	PLXDC1	0.986965482	0.000253741
RP11-455F5.3	PLXDC1	0.998036244	5.78E-06
RP11-326C3.2	PLXDC1	0.994522496	4.49E-05
AP006621.8	PLXDC1	0.98958904	0.000162018
JHDM1D-AS1	PLXDC1	0.998893293	1.84E-06
RP11-20I23.6	PLXDC1	0.998161037	5.07E-06

RP11-160E2.19	PLXDC1	0.957962644	0.002613566
AC005786.7	PLXDC1	0.990298067	0.000140735
AC005944.2	PLXDC1	0.967233423	0.001592883
CTB-191K22.5	PLXDC1	0.970745788	0.001271195
RP11-20I23.8	PLXDC1	0.999287945	7.60E-07
CDC37L1-AS1	PLXDC1	0.99045312	0.000136279
RP5-1142A6.10	PLXDC1	0.989445945	0.000166494
RP11-556I13.1	PLXDC1	0.998890102	1.85E-06
AC024028.1	PLXNA3	0.92544979	0.008129436
RP11-498J9.2	PLXNA3	0.932830294	0.006616127
RP11-34P13.14	PLXNA3	0.948188583	0.003957092
RP11-93O14.2	PLXNA3	0.942947537	0.004789623
RP11-78A19.3	PLXNA3	0.959370486	0.002442601
LA16c-359F1.1	PLXNA3	0.92034541	0.009264582
AC011558.5	MAN1C1	0.908285255	0.012231658
RP11-160E2.19	PLXNB1	0.970795657	0.001266886
RP11-498J9.2	DAB2	0.854077353	0.030386532
AC011558.5	PLXNB1	0.98850222	0.000197538
RP11-498J9.2	PLXNB2	0.978563119	0.000684384
RP11-34P13.14	PLXNB2	0.930427097	0.007092203
RP11-93O14.2	PLXNB2	0.957711409	0.002644675
RP11-485G7.6	PLXNB2	0.978590753	0.000682627
RP11-93O14.2	TBC1D8	0.9124518	0.011161516
RP11-485G7.6	TBC1D8	0.872295244	0.02342142
RP11-78A19.3	PLXNB2	0.950753727	0.003578077
Z69720.3	PLXNB2	0.969407086	0.001389573
AC024028.1	PMAIP1	0.940599574	0.005187821
RP11-498J9.2	PMAIP1	0.994633542	4.31E-05
RP11-34P13.14	PMAIP1	0.983656894	0.000398463
RP11-93O14.2	PMAIP1	0.995086529	3.62E-05
RP11-485G7.6	PMAIP1	0.967639692	0.001553841
RP11-78A19.3	PMAIP1	0.992843462	7.66E-05
LA16c-359F1.1	PMAIP1	0.935884321	0.006034446
Z69720.3	PMAIP1	0.987299394	0.000240934
CCDC144NL-AS1	PMEPA1	-0.920806086	0.009159175
CTA-315H11.2	PMEPA1	-0.962953446	0.002033249
RP11-126K1.8	PMEPA1	0.952062979	0.003391858
RP3-438O4.4	PMEPA1	0.967526555	0.001564665
NUP50-AS1	PMEPA1	0.956128774	0.002844808
PSMD5-AS1	PMEPA1	0.981008678	0.000537581
TOPORS-AS1	PMEPA1	0.9602732	0.002335979
AC087294.2	PMEPA1	0.983158404	0.000423071
AP001062.8	PMEPA1	0.969555869	0.001376159
RP11-455F5.3	PMEPA1	0.987712186	0.000225558
RP11-326C3.2	PMEPA1	0.994049466	5.30E-05
AP006621.8	PMEPA1	0.987030452	0.000251223
JHDM1D-AS1	PMEPA1	0.987712606	0.000225542
RP11-20I23.6	PMEPA1	0.987089773	0.000248935
RP11-160E2.19	PMEPA1	0.962991797	0.002029067
RP11-498J9.2	TIAM1	0.862520656	0.027051636
RP11-34P13.14	TIAM1	0.850591757	0.031816628
AC005786.7	PMEPA1	0.971754916	0.00118541
Z69720.3	TIAM1	0.818078969	0.04663253
CCDC144NL-AS1	DOCK5	-0.899791906	0.014559365
AC005944.2	PMEPA1	0.946784616	0.004172466
CTD-2139B15.2	DOCK5	-0.830226923	0.04078767
RP3-438O4.4	DOCK5	0.83842571	0.037050327
PSMD5-AS1	DOCK5	0.901887764	0.013966802
TOPORS-AS1	DOCK5	0.839775194	0.036451338
AC087294.2	DOCK5	0.867531624	0.025159537
AP001062.8	DOCK5	0.827696789	0.041974892
RP11-455F5.3	DOCK5	0.879266352	0.020984977
CTB-191K22.5	PMEPA1	0.944238372	0.004577347

AP006621.8	DOCK5	0.914786464	0.010582638
JHDM1D-AS1	DOCK5	0.885275182	0.018987684
RP11-20I23.6	DOCK5	0.898950443	0.01480061
RP11-20I23.8	PMEPA1	0.988150954	0.000209768
AC005786.7	DOCK5	0.861406372	0.027481224
AC005944.2	DOCK5	0.848007264	0.032897036
RP11-20I23.8	DOCK5	0.888317181	0.018013065
CDC37L1-AS1	DOCK5	0.85565884	0.029747927
RP5-1142A6.10	DOCK5	0.89672506	0.015447819
RP11-556I13.1	DOCK5	0.885435517	0.0189357
CDC37L1-AS1	PMEPA1	0.969563752	0.00137545
RP5-1142A6.10	PMEPA1	0.977205876	0.000773437
RP11-498J9.2	NAPSB	0.846454115	0.033554483
RP11-34P13.14	NAPSB	0.817604594	0.046868153
RP11-556I13.1	PMEPA1	0.987689809	0.000226378
LLNLR-284B4.1	NAPSB	0.843879436	0.034657833
CCDC144NL-AS1	IL11RA	-0.881932042	0.020087128
RP11-498J9.2	PMS2P5	0.965629123	0.001751734
RP11-34P13.14	PMS2P5	0.950771334	0.00357554
RP11-93O14.2	PMS2P5	0.992942567	7.45E-05
RP11-485G7.6	PMS2P5	0.973565818	0.001038913
RP11-78A19.3	PMS2P5	0.98836763	0.000202181
RP11-680G24.6	PMS2P5	0.927931689	0.007603607
LA16c-359F1.1	PMS2P5	0.969855867	0.001349308
Z69720.3	PMS2P5	0.957633226	0.002654392
RP11-93O14.2	PNCK	0.96249473	0.00208359
RP11-485G7.6	PNCK	0.948101479	0.003970291
RP11-78A19.3	PNCK	0.961763186	0.002165129
RP11-680G24.6	PNCK	0.937873754	0.005669612
LA16c-359F1.1	PNCK	0.987707958	0.000225713
CTA-315H11.2	PNMA5	-0.956877676	0.002749209
RP11-66D17.5	PNMA5	0.936343714	0.005949213
RP11-126K1.8	PNMA5	0.965556805	0.00175907
RP3-438O4.4	PNMA5	0.986143454	0.000286676
NUP50-AS1	PNMA5	0.976723391	0.000806395
PSMD5-AS1	PNMA5	0.987675595	0.0002269
TOPORS-AS1	PNMA5	0.976049111	0.000853598
AC087294.2	PNMA5	0.99590136	2.52E-05
AP001062.8	PNMA5	0.985529343	0.000312585
AC011558.5	IL11RA	0.84933447	0.032340092
CCDC144NL-AS1	GIMAP2	-0.879154784	0.021022964
RP11-455F5.3	PNMA5	0.997513106	9.27E-06
RP11-326C3.2	PNMA5	0.995635473	2.85E-05
AP006621.8	PNMA5	0.990546584	0.000133628
JHDM1D-AS1	PNMA5	0.99830123	4.33E-06
RP11-20I23.6	PNMA5	0.998143328	5.17E-06
RP11-160E2.19	PNMA5	0.961037135	0.002247582
AC005786.7	PNMA5	0.98955232	0.000163161
AC005944.2	PNMA5	0.967388447	0.001577929
CTB-191K22.5	PNMA5	0.968960707	0.001430204
RP11-20I23.8	PNMA5	0.998842542	2.01E-06
CDC37L1-AS1	PNMA5	0.988993139	0.00018106
RP5-1142A6.10	PNMA5	0.989771514	0.000156398
RP11-556I13.1	PNMA5	0.998297186	4.35E-06
CTD-2531D15.5	PNMT	0.928118454	0.007564731
AC024028.1	PNOC	0.963331825	0.001992181
RP11-498J9.2	PNOC	0.999932448	6.84E-09
RP11-34P13.14	PNOC	0.9774212	0.000758948
RP11-93O14.2	PNOC	0.981907872	0.000488027
RP11-485G7.6	PNOC	0.966573488	0.001657323
RP11-78A19.3	PNOC	0.982335908	0.000465274
Z69720.3	PNOC	0.987102267	0.000248455
CTA-315H11.2	PNPLA2	-0.9511243	0.003524873

AC011558.5	GIMAP2	0.838198924	0.037151439
CCDC144NL-AS1	GPR146	-0.86704486	0.025340475
RP11-66D17.5	PNPLA2	0.950852571	0.003563848
RP11-126K1.8	PNPLA2	0.979588849	0.000620671
RP3-438O4.4	PNPLA2	0.985507028	0.000313547
NUP50-AS1	PNPLA2	0.98593278	0.000295438
PSMD5-AS1	PNPLA2	0.993144712	7.03E-05
TOPORS-AS1	PNPLA2	0.972423621	0.0011302
AC087294.2	PNPLA2	0.997602842	8.61E-06
AP001062.8	PNPLA2	0.992546093	8.31E-05
RP11-455F5.3	PNPLA2	0.99932315	6.87E-07
RP11-326C3.2	PNPLA2	0.991528448	0.000107347
AP006621.8	PNPLA2	0.99373713	5.87E-05
JHDM1D-AS1	PNPLA2	0.997289435	1.10E-05
RP11-20I23.6	PNPLA2	0.99677269	1.56E-05
RP11-160E2.19	PNPLA2	0.953943698	0.003132927
AC005786.7	PNPLA2	0.990093504	0.000146722
AC005944.2	PNPLA2	0.978976236	0.000658352
CTB-191K22.5	PNPLA2	0.980886326	0.000544507
RP11-20I23.8	PNPLA2	0.998423695	3.73E-06
CDC37L1-AS1	PNPLA2	0.987141135	0.000246963
RP5-1142A6.10	PNPLA2	0.987952647	0.000216834
LL21NC02-21A1.1	GPR146	0.826051615	0.042755392
RP11-556I13.1	PNPLA2	0.997208427	1.17E-05
AC024028.1	PNPLA7	0.991560067	0.000106548
CCDC144NL-AS1	LDLRAP1	-0.837392636	0.037511969
RP11-498J9.2	PNPLA7	0.978889383	0.000663783
RP11-34P13.14	PNPLA7	0.955990339	0.002862655
RP11-93O14.2	PNPLA7	0.948394046	0.003926044
RP11-473M20.11	PNPLA7	0.971226811	0.001229934
RP11-78A19.3	PNPLA7	0.956555186	0.002790178
Z69720.3	PNPLA7	0.943226006	0.00474343
CCDC144NL-AS1	PNRC1	-0.933895454	0.006410284
CTA-315H11.2	PNRC1	-0.953360527	0.003212135
PSMD5-AS1	PNRC1	0.941420699	0.005046793
RP11-326C3.2	PNRC1	0.954014229	0.003123414
AP006621.8	PNRC1	0.949594088	0.003747099
RP11-160E2.19	PNRC1	0.982337947	0.000465167
AC011558.5	PNRC1	0.947757915	0.004022563
CTD-2139B15.2	POC1A	0.952918068	0.003272879
CTA-315H11.2	POC1B	-0.94641395	0.004230262
RP11-66D17.5	POC1B	0.937357182	0.005763275
RP11-126K1.8	POC1B	0.97604601	0.000853818
RP3-438O4.4	POC1B	0.98513772	0.00032969
NUP50-AS1	POC1B	0.976105525	0.000849598
PSMD5-AS1	POC1B	0.97755224	0.000750197
LL21NC02-21A1.1	LDLRAP1	0.842084475	0.035436975
TOPORS-AS1	POC1B	0.967997118	0.001519888
AC087294.2	POC1B	0.993477585	6.37E-05
AP001062.8	POC1B	0.987563176	0.00023105
CCDC144NL-AS1	MAL	-0.877955132	0.021433498
RP11-455F5.3	POC1B	0.995077686	3.63E-05
RP11-326C3.2	POC1B	0.982944912	0.000433834
AP006621.8	POC1B	0.981112759	0.000531723
JHDM1D-AS1	POC1B	0.994603533	4.36E-05
RP11-20I23.6	POC1B	0.987428806	0.000236059
RP11-160E2.19	POC1B	0.93131762	0.006913907
AC005786.7	POC1B	0.979004087	0.000656615
AC005944.2	POC1B	0.951311712	0.003498115
CTB-191K22.5	POC1B	0.967771656	0.001541262
RP11-20I23.8	POC1B	0.993805033	5.74E-05
CDC37L1-AS1	POC1B	0.984686367	0.000349965
RP5-1142A6.10	POC1B	0.972763251	0.001102658

RP11-556I13.1	POC1B	0.994555668	4.44E-05
CTD-2139B15.2	POLA2	0.933680362	0.006451595
CTD-2139B15.2	POLD1	0.981425943	0.000514289
RP11-770G2.2	POLD2	0.926261136	0.007955656
AC011558.5	POLD3	-0.971811236	0.00118071
CTA-315H11.2	POLD4	-0.955496743	0.00292674
RP11-66D17.5	POLD4	0.940776465	0.005157279
RP11-126K1.8	POLD4	0.970361304	0.00130466
RP3-438O4.4	POLD4	0.976512357	0.000821025
NUP50-AS1	POLD4	0.979685237	0.000614843
AC011558.5	MAL	0.835794581	0.03823136
CCDC144NL-AS1	SORBS3	-0.814515498	0.048416
CTA-315H11.2	SORBS3	-0.910377944	0.011688242
PSMD5-AS1	POLD4	0.996783738	1.55E-05
TOPORS-AS1	POLD4	0.967957539	0.00152363
AC087294.2	POLD4	0.992499171	8.42E-05
AP001062.8	POLD4	0.985349204	0.000320396
RP11-455F5.3	POLD4	0.995316783	3.28E-05
RP11-326C3.2	POLD4	0.99504841	3.67E-05
AP006621.8	POLD4	0.997176225	1.19E-05
JHDM1D-AS1	POLD4	0.992781267	7.80E-05
RP11-20I23.6	POLD4	0.996611501	1.72E-05
RP11-160E2.19	POLD4	0.969024272	0.001424383
AC005786.7	POLD4	0.988139122	0.000210186
AC005944.2	POLD4	0.983952993	0.000384194
CTB-191K22.5	POLD4	0.974614652	0.000958444
RP11-20I23.8	POLD4	0.994989957	3.76E-05
CDC37L1-AS1	POLD4	0.979607539	0.000619539
RP5-1142A6.10	POLD4	0.991262978	0.00011417
RP11-556I13.1	POLD4	0.992693809	7.99E-05
AC011558.5	POLE2	-0.943443294	0.004707539
CTA-315H11.2	POLL	-0.9353633	0.006131831
RP11-66D17.5	POLL	0.964672987	0.001849953
RP11-126K1.8	POLL	0.982396033	0.000462122
AC011558.5	SORBS3	0.865787135	0.025810845
RP3-438O4.4	POLL	0.99391982	5.53E-05
NUP50-AS1	POLL	0.991886234	9.85E-05
PSMD5-AS1	POLL	0.984883854	0.00034102
TOPORS-AS1	POLL	0.98002918	0.000594268
AC087294.2	POLL	0.999888198	1.87E-08
AP001062.8	POLL	0.996920005	1.42E-05
RP11-455F5.3	POLL	0.999285263	7.66E-07
RP11-326C3.2	POLL	0.983729146	0.000394957
AP006621.8	POLL	0.98469788	0.000349441
JHDM1D-AS1	POLL	0.998459286	3.56E-06
RP11-20I23.6	POLL	0.995811636	2.63E-05
RP11-160E2.19	POLL	0.936998353	0.005828778
AC005786.7	POLL	0.993955186	5.47E-05
AC005944.2	POLL	0.975136754	0.000919587
CTB-191K22.5	POLL	0.987146623	0.000246752
RP11-20I23.8	POLL	0.998768915	2.27E-06
CDC37L1-AS1	POLL	0.9942383	4.97E-05
RP5-1142A6.10	POLL	0.986487574	0.000272645
RP11-556I13.1	POLL	0.998407106	3.80E-06
CTA-315H11.2	POLM	-0.947190612	0.004109609
RP11-160E2.19	POLM	0.952068778	0.003391044
CCDC144NL-AS1	PCMTD1	-0.899354669	0.014684481
AC011558.5	POLM	0.94483166	0.004481365
AC024028.1	POLR2J3	0.994655327	4.28E-05
RP11-498J9.2	POLR2J3	0.973194381	0.001068181
RP11-34P13.14	POLR2J3	0.945596444	0.00435911
RP11-93O14.2	POLR2J3	0.926852841	0.007830073
RP11-473M20.11	POLR2J3	0.980621225	0.000559667

RP11-78A19.3	POLR2J3	0.937718459	0.005697691
Z69720.3	POLR2J3	0.941980742	0.004951698
RP11-326C3.2	POMT1	0.930892003	0.006998846
RP11-160E2.19	POMT1	0.980959623	0.000540353
AC011558.5	POMT1	0.991709712	0.000102808
AC011558.5	PON2	-0.947096508	0.004124137
AC024028.1	PORCN	0.989578538	0.000162344
RP11-498J9.2	PORCN	0.948957602	0.003841499
RP11-34P13.14	PORCN	0.940570355	0.005192875
RP11-473M20.11	PORCN	0.977398495	0.000760469
Z69720.3	PORCN	0.917859095	0.009843585
CTA-315H11.2	POU2AF1	-0.927600931	0.007672693
RMRP	PCMTD1	0.827460645	0.04208651
RP11-326C3.2	POU2AF1	0.930791437	0.007018989
AP006621.8	POU2AF1	0.920578082	0.009211271
RP11-160E2.19	POU2AF1	0.9758395	0.000868543
AC011558.5	POU2AF1	0.971949392	0.001169219
CTA-315H11.2	POU2F2	-0.969358112	0.001394003
RP11-126K1.8	POU2F2	0.935372208	0.00613016
RP3-438O4.4	POU2F2	0.960553103	0.002303396
NUP50-AS1	POU2F2	0.949861223	0.003707824
PSMD5-AS1	POU2F2	0.985612366	0.000309017
TOPORS-AS1	POU2F2	0.95821351	0.002582684
AC087294.2	POU2F2	0.978094789	0.000714502
LA16c-359F1.1	P2RY10	0.855956911	0.029628285
AP001062.8	POU2F2	0.960411542	0.002319847
RP11-455F5.3	POU2F2	0.982789746	0.00044174
RP11-326C3.2	POU2F2	0.999315818	7.02E-07
AP006621.8	POU2F2	0.990455769	0.000136204
RP11-93O14.2	TRIM3	0.913045144	0.011012981
RP11-485G7.6	TRIM3	0.849722545	0.032178089
JHDM1D-AS1	POU2F2	0.983801155	0.000391479
RP11-78A19.3	TRIM3	0.916766868	0.010103322
RP11-20I23.6	POU2F2	0.990238813	0.000142456
RP11-160E2.19	POU2F2	0.986752608	0.000262078
RP11-498J9.2	FGD2	0.901051391	0.014201846
RP11-34P13.14	FGD2	0.855817619	0.029684167
RP11-93O14.2	FGD2	0.825150084	0.043185941
RP11-485G7.6	FGD2	0.817045077	0.047146776
AC005786.7	POU2F2	0.97446072	0.000970053
RP11-78A19.3	FGD2	0.838941517	0.036820837
LLNLR-284B4.1	FGD2	0.854430486	0.030243381
Z69720.3	FGD2	0.852818543	0.030899422
AC005944.2	POU2F2	0.958884736	0.002500945
CTB-191K22.5	POU2F2	0.939931924	0.005303893
RP11-20I23.8	POU2F2	0.985769877	0.000302304
CDC37L1-AS1	POU2F2	0.966673857	0.001647441
RP5-1142A6.10	POU2F2	0.986326272	0.000279178
RP11-556I13.1	POU2F2	0.9838147	0.000390826
AC024028.1	PPAP2A	0.957520568	0.002668426
RP11-498J9.2	PPAP2A	0.979076877	0.000652086
RP11-34P13.14	PPAP2A	0.998002593	5.98E-06
RP11-93O14.2	PPAP2A	0.966371247	0.001677324
RP11-78A19.3	PPAP2A	0.95927254	0.002454311
Z69720.3	PPAP2A	0.990460795	0.000136061
BX322559.3	PPFIA4	-0.995404941	3.16E-05
CTA-315H11.2	PPFIBP2	-0.943902601	0.00463211
RP11-66D17.5	PPFIBP2	0.955465706	0.002930793
RP11-126K1.8	PPFIBP2	0.976441972	0.000825934
RP3-438O4.4	PPFIBP2	0.989539734	0.000163553
NUP50-AS1	PPFIBP2	0.987822374	0.000221539
PSMD5-AS1	PPFIBP2	0.989937947	0.000151358
TOPORS-AS1	PPFIBP2	0.979417522	0.000631098

AC087294.2	PPFIBP2	0.998646655	2.75E-06
CCDC144NL-AS1	ALPK1	-0.871033764	0.023875933
CTA-315H11.2	ALPK1	-0.914970531	0.010537634
CTD-2139B15.2	ALPK1	-0.82250008	0.044463156
PSMD5-AS1	ALPK1	0.87068531	0.024002215
AC087294.2	ALPK1	0.823275407	0.044087678
RP11-455F5.3	ALPK1	0.836705562	0.037820481
RP11-326C3.2	ALPK1	0.910184304	0.011738024
AP006621.8	ALPK1	0.88383035	0.019459204
JHDM1D-AS1	ALPK1	0.841236189	0.035808025
RP11-20I23.6	ALPK1	0.864453052	0.026314262
AP001062.8	PPFIBP2	0.993084817	7.16E-05
AC005786.7	ALPK1	0.826047389	0.042757406
AC005944.2	ALPK1	0.818051184	0.046646316
RP11-20I23.8	ALPK1	0.846123667	0.033695153
RP5-1142A6.10	ALPK1	0.872040283	0.023512947
RP11-556I13.1	ALPK1	0.841377187	0.035746225
RP11-455F5.3	PPFIBP2	0.999153337	1.07E-06
CCDC144NL-AS1	PI4K2B	-0.853129436	0.030772374
RP11-326C3.2	PPFIBP2	0.99058887	0.000132437
AP006621.8	PPFIBP2	0.990299589	0.000140691
JHDM1D-AS1	PPFIBP2	0.998265079	4.51E-06
RP11-20I23.6	PPFIBP2	0.998618605	2.86E-06
RP11-160E2.19	PPFIBP2	0.952588179	0.003318533
AC005786.7	PPFIBP2	0.994403287	4.69E-05
AC005944.2	PPFIBP2	0.978568742	0.000684027
CTB-191K22.5	PPFIBP2	0.9822115	0.000471832
RP11-20I23.8	PPFIBP2	0.999233477	8.81E-07
CDC37L1-AS1	PPFIBP2	0.990975045	0.000121807
RP5-1142A6.10	PPFIBP2	0.991528671	0.000107341
RP11-556I13.1	PPFIBP2	0.998216405	4.77E-06
AC024028.1	PPIF	0.935036135	0.006193372
RP11-498J9.2	PPIF	0.992303633	8.86E-05
RP11-34P13.14	PPIF	0.971485946	0.001207985
RP11-93O14.2	PPIF	0.977799137	0.000733846
RP11-485G7.6	PPIF	0.966699752	0.001644896
RP11-78A19.3	PPIF	0.970310658	0.001309101
Z69720.3	PPIF	0.993471244	6.38E-05
RP11-77G23.2	PPIP5K2	0.948131135	0.003965795
LL21NC02-21A1.1	PI4K2B	0.833763288	0.039155021
CTA-315H11.2	PPM1A	-0.945877673	0.004314571
RP11-66D17.5	PPM1A	0.949992846	0.003688546
CCDC144NL-AS1	CD6	-0.891064439	0.017154068
RP11-126K1.8	PPM1A	0.973996048	0.001005516
RP3-438O4.4	PPM1A	0.993607249	6.12E-05
NUP50-AS1	PPM1A	0.983457036	0.000408241
PSMD5-AS1	PPM1A	0.981881831	0.000489428
TOPORS-AS1	PPM1A	0.979180809	0.000645646
AC087294.2	PPM1A	0.998902444	1.81E-06
AP001062.8	PPM1A	0.991791337	0.000100797
RP11-455F5.3	PPM1A	0.998912365	1.77E-06
RP11-326C3.2	PPM1A	0.987907866	0.000218446
AP006621.8	PPM1A	0.984036883	0.000380198
JHDM1D-AS1	PPM1A	0.999941787	5.08E-09
RP11-20I23.6	PPM1A	0.996039488	2.35E-05
RP11-160E2.19	PPM1A	0.9418917	0.004966758
AC005786.7	PPM1A	0.990843717	0.000125372
AC005944.2	PPM1A	0.963990916	0.001921635
CTB-191K22.5	PPM1A	0.976660708	0.000810727
RP11-20I23.8	PPM1A	0.999604533	2.35E-07
CDC37L1-AS1	PPM1A	0.994942528	3.83E-05
RP5-1142A6.10	PPM1A	0.985044134	0.000333844
RP11-556I13.1	PPM1A	0.999937797	5.80E-09

RP3-339A18.6	PPM1H	0.985152138	0.000329052
RP11-160E2.19	PPM1M	0.961572029	0.00218669
AC011558.5	CD6	0.860996594	0.027640012
CCDC144NL-AS1	RMND5A	-0.875804902	0.022178815
AC011558.5	PPM1M	0.990942783	0.000122678
RP11-498J9.2	PPM1N	0.938483079	0.005560097
RP11-93O14.2	PPM1N	0.933279912	0.006528851
RP11-485G7.6	PPM1N	0.941867601	0.004970838
RP11-78A19.3	PPM1N	0.91780184	0.009857119
Z69720.3	PPM1N	0.917440829	0.009942663
RP11-91K8.5	PPP1R3C	0.944070331	0.004604714
CTA-315H11.2	PPP1R9B	-0.96231702	0.002103255
RP11-66D17.5	PPP1R9B	0.924662998	0.008299702
RP11-126K1.8	PPP1R9B	0.95676873	0.002763016
RP3-438O4.4	PPP1R9B	0.976086073	0.000850976
NUP50-AS1	PPP1R9B	0.969624595	0.001369985
PSMD5-AS1	PPP1R9B	0.991334421	0.000112313
TOPORS-AS1	PPP1R9B	0.969902862	0.001345125
AC087294.2	PPP1R9B	0.990282121	0.000141197
AP001062.8	PPP1R9B	0.97791535	0.000726212
RP11-455F5.3	PPP1R9B	0.993253209	6.81E-05
RP11-326C3.2	PPP1R9B	0.998938849	1.69E-06
RMRP	RMND5A	0.842831339	0.035111793
AP006621.8	PPP1R9B	0.994160772	5.10E-05
JHDM1D-AS1	PPP1R9B	0.993324314	6.67E-05
LL21NC02-21A1.1	RMND5A	0.813568968	0.048894947
RP11-20I23.6	PPP1R9B	0.997135361	1.23E-05
RP11-160E2.19	PPP1R9B	0.975521239	0.000891481
AC005786.7	PPP1R9B	0.986183535	0.000285023
AC005944.2	PPP1R9B	0.97135563	0.001218999
RP11-66D17.5	KIAA0232	0.908506704	0.012173589
CTB-191K22.5	PPP1R9B	0.961789034	0.002162221
RP11-20I23.8	PPP1R9B	0.994914546	3.87E-05
CDC37L1-AS1	PPP1R9B	0.980316002	0.000577376
RP5-1142A6.10	PPP1R9B	0.991717916	0.000102605
RP11-556I13.1	PPP1R9B	0.993307525	6.70E-05
AC011558.5	PPP2R1B	-0.926131128	0.007983379
RP11-66D17.5	PPP2R5B	0.978761188	0.00067184
RP11-126K1.8	PPP2R5B	0.998369792	3.98E-06
RP3-438O4.4	PPP2R5B	0.960065138	0.002360346
NUP50-AS1	PPP2R5B	0.988589339	0.000194562
PSMD5-AS1	PPP2R5B	0.967755929	0.001542758
TOPORS-AS1	PPP2R5B	0.934721443	0.00625285
AC087294.2	PPP2R5B	0.972837742	0.001096662
AP001062.8	PPP2R5B	0.987768822	0.000223488
RP11-455F5.3	PPP2R5B	0.972705775	0.001107295
RP11-326C3.2	PPP2R5B	0.936187542	0.005978122
AP006621.8	PPP2R5B	0.960837795	0.002270486
JHDM1D-AS1	PPP2R5B	0.962732553	0.002057414
RP11-20I23.6	PPP2R5B	0.956644465	0.002778806
AC005786.7	PPP2R5B	0.960493558	0.002310308
AC011558.5	KIAA0232	0.829830248	0.04097275
AC005944.2	PPP2R5B	0.974834079	0.000942016
CTB-191K22.5	PPP2R5B	0.992233305	9.02E-05
RP11-34P13.14	IL2RA	0.873002929	0.023168264
RP11-93O14.2	IL2RA	0.840815243	0.035992826
RP11-485G7.6	IL2RA	0.850301807	0.031936989
RP11-20I23.8	PPP2R5B	0.964423585	0.001876008
RP11-78A19.3	IL2RA	0.857365168	0.029066112
LLNLR-284B4.1	IL2RA	0.821969894	0.044720771
Z69720.3	IL2RA	0.883979225	0.019410363
CCDC144NL-AS1	SSH2	-0.89207967	0.016841733
CDC37L1-AS1	PPP2R5B	0.955612336	0.002911669

PSMD5-AS1	SSH2	0.876329664	0.021995799
RP11-455F5.3	SSH2	0.824490531	0.043502201
RP11-326C3.2	SSH2	0.897898788	0.015104801
AP006621.8	SSH2	0.886962429	0.01844407
JHDM1D-AS1	SSH2	0.822827655	0.044304336
RP11-20I23.6	SSH2	0.845828147	0.033821188
RP5-1142A6.10	PPP2R5B	0.943953554	0.00462378
AC005944.2	SSH2	0.825852126	0.04285049
RP11-20I23.8	SSH2	0.829546345	0.041105454
RP5-1142A6.10	SSH2	0.849958725	0.032079683
RP11-556I13.1	SSH2	0.8227997	0.044317879
RP11-556I13.1	PPP2R5B	0.962428534	0.002090904
CCDC144NL-AS1	RHBDD1	-0.890051029	0.01746859
CTB-31O20.6	RHBDD1	-0.813112285	0.049126812
CCDC144NL-AS1	PPRC1	0.9591634	0.002467392
RP11-66D17.5	RHBDD1	0.91642709	0.010184792
CTD-2531D15.5	PPRC1	0.94835507	0.003931925
CTD-2139B15.2	PPT2	0.932584339	0.006664109
RP11-118G23.2	PPTC7	0.937441279	0.005747976
RP11-680G24.6	PPTC7	0.944750909	0.00449437
TOPORS-AS1	RHBDD1	0.9077477	0.012373174
RP11-66D17.5	PQLC1	0.987822673	0.000221528
RP11-126K1.8	PQLC1	0.99279917	7.76E-05
RP3-438O4.4	PQLC1	0.965154112	0.001800198
NUP50-AS1	PQLC1	0.992358914	8.74E-05
PSMD5-AS1	PQLC1	0.956368998	0.002813967
TOPORS-AS1	PQLC1	0.951118533	0.003525698
AC087294.2	PQLC1	0.972165334	0.00115137
RP11-160E2.19	RHBDD1	0.852066855	0.031207623
AP001062.8	PQLC1	0.987962842	0.000216468
AC005944.2	RHBDD1	0.903765248	0.01344607
RP11-455F5.3	PQLC1	0.96942455	0.001387995
RP11-326C3.2	PQLC1	0.929296072	0.007321842
AP006621.8	PQLC1	0.949061643	0.003825989
JHDM1D-AS1	PQLC1	0.960777778	0.002277405
RP5-1142A6.10	RHBDD1	0.906521966	0.012698802
RP11-20I23.6	PQLC1	0.95664862	0.002778277
AC005786.7	PQLC1	0.967225971	0.001593604
RP11-498J9.2	C16orf74	0.868838841	0.024676675
RP11-34P13.14	C16orf74	0.834714286	0.0387213
AC005944.2	PQLC1	0.968527195	0.001470219
LLNLR-284B4.1	C16orf74	0.84261455	0.035206037
Z69720.3	C16orf74	0.82011625	0.045626892
CTB-191K22.5	PQLC1	0.992501507	8.41E-05
RP11-498J9.2	FBXO41	0.914371059	0.010684544
RP11-34P13.14	FBXO41	0.912795585	0.011075337
RP11-93O14.2	FBXO41	0.853952685	0.030437146
RP11-20I23.8	PQLC1	0.962039701	0.002134126
RP11-78A19.3	FBXO41	0.861814543	0.02732349
Z69720.3	FBXO41	0.8869488	0.018448431
CCDC144NL-AS1	RNF123	-0.811409821	0.04999566
CTA-315H11.2	RNF123	-0.901584016	0.014051945
CDC37L1-AS1	PQLC1	0.957432389	0.002679436
RP5-1142A6.10	PQLC1	0.948734733	0.003874826
RP11-556I13.1	PQLC1	0.96051553	0.002307756
CTD-2139B15.2	PQLC2	0.951022901	0.003539392
RP11-160E2.19	PRAM1	0.94405858	0.004606631
AC011558.5	PRAM1	0.983123038	0.000424844
RP11-91K8.5	PRC1	0.947258741	0.004099107
AC024028.1	PRDM8	0.925648506	0.008086704
RP11-498J9.2	PRDM8	0.952535218	0.003325892
RP11-34P13.14	PRDM8	0.989169243	0.000175323
RP11-93O14.2	PRDM8	0.951615708	0.003454925

RP11-78A19.3	PRDM8	0.935875328	0.006036121
Z69720.3	PRDM8	0.97488793	0.000938006
RP11-160E2.19	RNF123	0.901946564	0.013950348
CTA-315H11.2	PRDX3	0.928617391	0.007461351
PSMD5-AS1	PRDX3	-0.920796875	0.009161276
RP11-326C3.2	PRDX3	-0.932449078	0.006690569
AP006621.8	PRDX3	-0.926512556	0.007902176
RP11-160E2.19	PRDX3	-0.982783335	0.000442069
LL21NC02-21A1.1	RNF123	0.897952994	0.015089049
AC011558.5	PRDX3	-0.976445556	0.000825684
CCDC144NL-AS1	PRELID2	0.930661017	0.007045155
CCDC144NL-AS1	IL27RA	-0.889368003	0.017682121
CTA-315H11.2	PRELID2	0.93166	0.006845947
RP11-66D17.5	IL27RA	0.86114748	0.027581494
RP11-126K1.8	IL27RA	0.900763518	0.014283185
PSMD5-AS1	PRELID2	-0.931036272	0.006969998
RP11-326C3.2	PRELID2	-0.945293235	0.004407381
AP006621.8	PRELID2	-0.939694636	0.005345448
RP11-160E2.19	PRELID2	-0.971128476	0.001238314
AC011558.5	PRELID2	-0.940160725	0.005263974
CTA-315H11.2	PRG3	-0.944477978	0.004538464
RP11-66D17.5	PRG3	0.95159341	0.003458084
RP11-126K1.8	PRG3	0.973270228	0.001062172
RP3-438O4.4	PRG3	0.992905466	7.53E-05
NUP50-AS1	PRG3	0.984916219	0.000339565
PSMD5-AS1	PRG3	0.984429627	0.000361767
TOPORS-AS1	PRG3	0.981452767	0.00051281
AC087294.2	PRG3	0.999110569	1.19E-06
AP001062.8	PRG3	0.991976193	9.63E-05
CTB-191K22.5	IL27RA	0.910157727	0.011744864
RP11-455F5.3	PRG3	0.999132918	1.13E-06
RP11-326C3.2	PRG3	0.989751019	0.000157024
AP006621.8	PRG3	0.98608593	0.000289055
JHDM1D-AS1	PRG3	0.99983003	4.33E-08
RP11-20I23.6	PRG3	0.997954324	6.27E-06
RP11-160E2.19	PRG3	0.947328325	0.004088394
AC005786.7	PRG3	0.993379754	6.56E-05
AC005944.2	PRG3	0.968912764	0.001434603
CTB-191K22.5	PRG3	0.978056709	0.000716979
RP11-20I23.8	PRG3	0.999948302	4.01E-09
CDC37L1-AS1	PRG3	0.994268058	4.92E-05
RP5-1142A6.10	PRG3	0.989026192	0.000179976
RP11-556I13.1	PRG3	0.999820595	4.83E-08
RP11-160E2.19	PRKAG2	0.960067097	0.002360116
AC011558.5	PRKAG2	0.990038603	0.00014835
CTD-2139B15.2	PRKCA	-0.9361831	0.005978945
RP3-339A18.6	PRKCB	0.954514195	0.003056384
AC011558.5	PRKCD	0.949366893	0.003780663
AC024028.1	PRKCE	0.956909895	0.002745132
RP11-498J9.2	PRKCE	0.998986933	1.54E-06
RP11-34P13.14	PRKCE	0.982602336	0.000451385
RP11-93O14.2	PRKCE	0.987973772	0.000216076
RP11-485G7.6	PRKCE	0.964292196	0.001889806
RP11-78A19.3	PRKCE	0.985424697	0.000317111
Z69720.3	PRKCE	0.989367977	0.000168959
CTD-2531D15.5	B4GALT4	-0.888513862	0.017950899
CCDC144NL-AS1	PRKCH	-0.924641423	0.008304395
RP11-126K1.8	B4GALT4	0.859211118	0.02833694
RP3-438O4.4	B4GALT4	0.830133419	0.040831262
NUP50-AS1	B4GALT4	0.836914549	0.037726516
CTA-315H11.2	PRKCH	-0.97041156	0.001300262
TOPORS-AS1	B4GALT4	0.819293582	0.046031747
AC087294.2	B4GALT4	0.87762342	0.021547684

AP001062.8	B4GALT4	0.858553605	0.028595659
RP11-455F5.3	B4GALT4	0.89444647	0.016124307
RP3-438O4.4	PRKCH	0.924248068	0.008390187
NUP50-AS1	PRKCH	0.918881459	0.009603438
JHDM1D-AS1	B4GALT4	0.886177998	0.018695865
RP11-20I23.6	B4GALT4	0.892512128	0.016709526
PSMD5-AS1	PRKCH	0.977134412	0.000778275
AC005786.7	B4GALT4	0.85272939	0.0309359
AC005944.2	B4GALT4	0.875914763	0.02214044
CTB-191K22.5	B4GALT4	0.826763253	0.042416954
RP11-20I23.8	B4GALT4	0.890562342	0.017309556
CDC37L1-AS1	B4GALT4	0.837898279	0.037285681
RP5-1142A6.10	B4GALT4	0.881510517	0.020227855
RP11-556I13.1	B4GALT4	0.885946547	0.018770471
AC011558.5	B4GALT4	0.879445841	0.020923933
CTA-315H11.2	ARPC1B	-0.888111347	0.018078235
TOPORS-AS1	PRKCH	0.92681118	0.007838883
AC087294.2	PRKCH	0.952373694	0.003348383
AP001062.8	PRKCH	0.931789052	0.006820416
RP11-455F5.3	PRKCH	0.961050122	0.002246094
RP11-326C3.2	PRKCH	0.990702972	0.00012925
AP006621.8	PRKCH	0.983559105	0.000403233
JHDM1D-AS1	PRKCH	0.959607679	0.002414359
RP11-20I23.6	PRKCH	0.969939593	0.00134186
RP11-160E2.19	PRKCH	0.993194548	6.93E-05
AC005786.7	PRKCH	0.946608974	0.004199804
AC005944.2	PRKCH	0.942059408	0.004938412
RP11-20I23.8	PRKCH	0.962910886	0.002037894
CDC37L1-AS1	PRKCH	0.931115832	0.006954114
RP5-1142A6.10	PRKCH	0.967829804	0.001535735
RP11-556I13.1	PRKCH	0.959563968	0.002419551
AC011558.5	PRKCH	0.923328062	0.008592518
CTA-315H11.2	PRKCZ	-0.956440676	0.002804797
RP3-438O4.4	PRKCZ	0.921316015	0.009043181
PSMD5-AS1	PRKCZ	0.97135825	0.001218777
LL21NC02-21A1.1	ARPC1B	0.860286296	0.027916278
TOPORS-AS1	PRKCZ	0.932939851	0.006594809
AC087294.2	PRKCZ	0.947460255	0.004068121
AP001062.8	PRKCZ	0.925094918	0.008206019
RP11-498J9.2	AK5	0.822483031	0.04447143
RP11-34P13.14	AK5	0.812769028	0.049301423
RP11-455F5.3	PRKCZ	0.954904077	0.003004609
AC011558.5	AK5	0.83049544	0.040662609
CCDC144NL-AS1	CR1	-0.878963491	0.021088172
CTA-315H11.2	CR1	-0.895282097	0.015874599
PSMD5-AS1	CR1	0.855213223	0.029927218
RP11-326C3.2	CR1	0.880429566	0.020590878
AP006621.8	CR1	0.866670154	0.02548018
RP11-20I23.6	CR1	0.825815305	0.042868053
RP11-326C3.2	PRKCZ	0.988167923	0.000209169
RP5-1142A6.10	CR1	0.834665608	0.038743446
AP006621.8	PRKCZ	0.977172289	0.000775709
RP11-118G23.2	TSPAN17	-0.885110623	0.019041108
RP11-680G24.6	TSPAN17	-0.847525178	0.033100446
RP3-337H4.8	TSPAN17	0.84040729	0.03617235
CTC-1337H24.3	TSPAN17	0.901280795	0.014137189
JHDM1D-AS1	PRKCZ	0.95469452	0.003032383
CTD-2531D15.5	ARRDC3	-0.854857762	0.030070601
RP11-20I23.6	PRKCZ	0.969653967	0.00136735
RP11-126K1.8	ARRDC3	0.86709441	0.025322028
RP3-438O4.4	ARRDC3	0.84825274	0.032793687
NUP50-AS1	ARRDC3	0.855063552	0.029987552
RP11-160E2.19	PRKCZ	0.997713709	7.83E-06

TOPORS-AS1	ARRDC3	0.845000346	0.034175414
AC087294.2	ARRDC3	0.893438314	0.016428065
AP001062.8	ARRDC3	0.873205917	0.023095891
RP11-455F5.3	ARRDC3	0.908771523	0.012104322
AC005786.7	PRKCZ	0.949499706	0.003761025
AC005944.2	PRKCZ	0.942070634	0.004936517
JHDM1D-AS1	ARRDC3	0.901627349	0.014039783
RP11-20I23.6	ARRDC3	0.912282333	0.011204117
RP11-20I23.8	PRKCZ	0.958512046	0.00254617
AC005786.7	ARRDC3	0.876242465	0.02202616
AC005944.2	ARRDC3	0.89736067	0.015261604
CTB-191K22.5	ARRDC3	0.844334065	0.034461786
RP11-20I23.8	ARRDC3	0.906544636	0.012692742
CDC37L1-AS1	ARRDC3	0.856306379	0.029488302
RP5-1142A6.10	ARRDC3	0.906485789	0.012708475
RP11-556I13.1	ARRDC3	0.901432857	0.014094409
AC011558.5	ARRDC3	0.909661103	0.011873041
CCDC144NL-AS1	ARG1	-0.874128849	0.022768197
CDC37L1-AS1	PRKCZ	0.928345741	0.007517551
RP5-1142A6.10	PRKCZ	0.973166241	0.001070415
RP11-556I13.1	PRKCZ	0.954692191	0.003032693
AC011558.5	PRKCZ	0.94173782	0.004992837
AC024028.1	PRKX	0.980386516	0.000573261
RP11-498J9.2	PRKX	0.949723546	0.00372804
RP11-34P13.14	PRKX	0.978091035	0.000714746
RP11-93O14.2	PRKX	0.923173801	0.008626673
RP11-473M20.11	PRKX	0.952815621	0.003287024
RP11-78A19.3	PRKX	0.920538622	0.009220302
Z69720.3	PRKX	0.947319879	0.004089694
RP11-160E2.19	PRMT2	0.971130092	0.001238176
AC011558.5	PRMT2	0.991596138	0.000105641
CTD-2531D15.5	PRMT5	0.917906413	0.009832407
RP11-770G2.2	PRMT5	0.921044289	0.009104901
AC024028.1	PRNP	0.934652765	0.006265867
RP11-498J9.2	PRNP	0.995205823	3.44E-05
RP11-34P13.14	PRNP	0.974369235	0.000976985
RP11-93O14.2	PRNP	0.990400411	0.000137786
RP11-485G7.6	PRNP	0.977019433	0.000786092
LL21NC02-21A1.1	ARG1	0.818208049	0.046568512
RP11-78A19.3	PRNP	0.986987746	0.000252877
LA16c-359F1.1	PRNP	0.925672769	0.008081494
AC011558.5	ARG1	0.813295387	0.049033787
Z69720.3	PRNP	0.988580763	0.000194854
AC024028.1	PROC	0.964355341	0.001883169
RP11-66D17.5	PRKCH	0.850736279	0.031756715
RP11-126K1.8	PRKCH	0.910251711	0.011720683
RP11-498J9.2	PROC	1	0
RP11-34P13.14	PROC	0.978552256	0.000685076
RP11-93O14.2	PROC	0.982998398	0.000431125
RP11-485G7.6	PROC	0.965304842	0.001784749
RP11-78A19.3	PROC	0.983256999	0.000418145
Z69720.3	PROC	0.986539728	0.000270549
AC024028.1	PROM1	0.960886508	0.002264879
RP11-498J9.2	PROM1	0.999581078	2.63E-07
RP11-34P13.14	PROM1	0.978001299	0.000720591
RP11-93O14.2	PROM1	0.986014546	0.000292022
RP11-485G7.6	PROM1	0.968831136	0.001442107
RP11-78A19.3	PROM1	0.987475389	0.000234316
Z69720.3	PROM1	0.984627393	0.000352659
CTA-315H11.2	PRR5	-0.921043842	0.009105003
CTB-191K22.5	PRKCH	0.906967834	0.01257988
RP11-66D17.5	PRR5	0.976348283	0.00083249
RP11-126K1.8	PRR5	0.990081453	0.000147078

RP3-438O4.4	PRR5	0.990440365	0.000136643
NUP50-AS1	PRR5	0.997312247	1.08E-05
PSMD5-AS1	PRR5	0.984168819	0.000373956
CCDC144NL-AS1	NIN	-0.901896182	0.013964445
TOPORS-AS1	PRR5	0.976031128	0.000854875
RP11-126K1.8	NIN	0.865931392	0.025756687
RP3-438O4.4	NIN	0.902426745	0.013816335
NUP50-AS1	NIN	0.884126125	0.019362227
AC087294.2	PRR5	0.997416271	1.00E-05
TOPORS-AS1	NIN	0.905624251	0.012939881
AP001062.8	PRR5	0.999450252	4.53E-07
AP001062.8	NIN	0.898891781	0.0148175
RP11-455F5.3	PRR5	0.996376838	1.97E-05
RP11-326C3.2	PRR5	0.974931119	0.000934796
AP006621.8	PRR5	0.98170359	0.000499076
JHDM1D-AS1	PRR5	0.993249009	6.82E-05
RP11-20I23.6	PRR5	0.990889317	0.000124129
RP11-160E2.19	PRR5	0.925367381	0.008147189
AC005786.7	PRR5	0.992170749	9.17E-05
AC005944.2	NIN	0.91615691	0.010249801
CTB-191K22.5	NIN	0.872195892	0.023457066
AC005944.2	PRR5	0.981590798	0.000505229
CDC37L1-AS1	NIN	0.91451001	0.010650404
CTB-191K22.5	PRR5	0.994608426	4.35E-05
RP11-20I23.8	PRR5	0.994078812	5.25E-05
CDC37L1-AS1	PRR5	0.989192729	0.000174565
LLNLR-284B4.1	PRAM1	0.828908506	0.041404328
CTA-315H11.2	PRAM1	-0.813895	0.048729727
CTD-2541M15.3	PRAM1	-0.812735877	0.049318303
PSMD5-AS1	PRAM1	0.85907208	0.028391556
TOPORS-AS1	PRAM1	0.827271381	0.042176069
RP11-455F5.3	PRAM1	0.81487971	0.048232291
RP11-326C3.2	PRAM1	0.880229624	0.020658365
AP006621.8	PRAM1	0.862888852	0.026910392
JHDM1D-AS1	PRAM1	0.812532002	0.049422164
RP11-20I23.6	PRAM1	0.853620836	0.030572066
RP5-1142A6.10	PRR5	0.982301514	0.000467083
AC005786.7	PRAM1	0.836878477	0.037742727
AC005944.2	PRAM1	0.846242437	0.033644561
RP11-20I23.8	PRAM1	0.821286989	0.045053612
RP5-1142A6.10	PRAM1	0.884894034	0.019111534
RP11-556I13.1	PRAM1	0.812524648	0.049425913
RP11-556I13.1	PRR5	0.99313543	7.05E-05
RP11-498J9.2	PRR5L	0.963484682	0.001975708
RP11-498J9.2	PTK7	0.84942084	0.032304003
RP11-34P13.14	PTK7	0.824964436	0.043274851
RP11-93O14.2	PRR5L	0.929578082	0.00726425
LLNLR-284B4.1	PTK7	0.840530182	0.036118226
AC011558.5	PTK7	0.812332963	0.04952366
RP11-485G7.6	PRR5L	0.978695867	0.000675965
RP11-78A19.3	PRR5L	0.929759823	0.007227252
Z69720.3	PRR5L	0.955725078	0.002897008
RP11-473M20.11	PRR7	0.931961158	0.00678644
AC024028.1	PRSS23	0.948078762	0.003973737
RP11-498J9.2	PRSS23	0.997826392	7.08E-06
RP11-34P13.14	PRSS23	0.981518965	0.000509167
RP11-93O14.2	PRSS23	0.989531087	0.000163824
RP11-485G7.6	PRSS23	0.968718586	0.001452485
RP11-498J9.2	TRGC2	0.817026672	0.047155954
RP11-78A19.3	PRSS23	0.986538739	0.000270589
AC011558.5	TRGC2	0.832561192	0.039706495
CCDC144NL-AS1	PPP2R5B	-0.815237205	0.048052285
CTA-315H11.2	PPP2R5B	-0.885804242	0.018816412

LA16c-359F1.1	PRSS23	0.917656654	0.009891478
Z69720.3	PRSS23	0.991056859	0.000119612
RP5-1033H22.2	PRSS3	0.999869471	2.56E-08
RP11-21J18.1	PRSS3	0.940900611	0.005135897
RP11-298J23.8	PRSS3	0.994425901	4.65E-05
RP11-165D6.1	PRSS3	0.995534994	2.99E-05
CTA-315H11.2	PRSS33	-0.946230549	0.004259003
RP11-66D17.5	PRSS33	0.949768659	0.00372141
RP11-126K1.8	PRSS33	0.972623055	0.001113986
RP3-438O4.4	PRSS33	0.993469839	6.38E-05
NUP50-AS1	PRSS33	0.983325535	0.000414739
PSMD5-AS1	PRSS33	0.982516954	0.000455813
TOPORS-AS1	PRSS33	0.97995998	0.00059838
RP11-160E2.19	PPP2R5B	0.876199485	0.022041133
AC087294.2	PRSS33	0.998857988	1.96E-06
AP001062.8	PRSS33	0.991325823	0.000112536
RP11-455F5.3	PRSS33	0.998839073	2.02E-06
RP11-326C3.2	PRSS33	0.988834065	0.000186321
AP006621.8	PRSS33	0.984589974	0.000354374
LL21NC02-21A1.1	PPP2R5B	0.911224285	0.011471865
JHDM1D-AS1	PRSS33	0.999996866	1.47E-11
RP11-20I23.6	PRSS33	0.996853159	1.48E-05
RP11-160E2.19	PRSS33	0.944517481	0.004532069
AC005786.7	PRSS33	0.991739264	0.000102078
AC005944.2	PRSS33	0.96531925	0.001783275
CTB-191K22.5	PRSS33	0.976533428	0.000819559
RP11-20I23.8	PRSS33	0.999795784	6.26E-08
CDC37L1-AS1	PRSS33	0.995079967	3.63E-05
RP5-1142A6.10	PRSS33	0.986585111	0.000268732
RP11-680G24.6	ARC	0.828802172	0.041454252
LA16c-359F1.1	ARC	0.88063093	0.020523019
RP11-556I13.1	PRSS33	0.999997468	9.62E-12
RP3-337H4.8	DHRS3	0.90164752	0.014034123
RP11-767C1.1	DHRS3	0.837390158	0.03751308
CTC-1337H24.3	DHRS3	0.903859336	0.013420226
CCDC144NL-AS1	CROCC	-0.90743419	0.012456072
CTA-315H11.2	CROCC	-0.9141518	0.010738523
PSMD5-AS1	CROCC	0.884772035	0.019151257
TOPORS-AS1	CROCC	0.815786071	0.047776529
AC087294.2	CROCC	0.83409498	0.039003489
RP11-455F5.3	CROCC	0.849131463	0.03242499
AC024028.1	PRSSL1	0.93504132	0.006192394
AP006621.8	CROCC	0.897697162	0.015163462
JHDM1D-AS1	CROCC	0.849178561	0.032405284
RP11-20I23.6	CROCC	0.870760388	0.023974979
RP11-498J9.2	PRSSL1	0.990047283	0.000148092
AC005786.7	CROCC	0.832224291	0.0398617
AC005944.2	CROCC	0.828306957	0.041687125
RP11-20I23.8	CROCC	0.854263727	0.030310941
RP5-1142A6.10	CROCC	0.877174143	0.0217028
RP11-556I13.1	CROCC	0.84920029	0.032396194
RP11-34P13.14	PRSSL1	0.960549571	0.002303805
CCDC144NL-AS1	PTPN4	-0.881588218	0.020201879
RP11-93O14.2	PRSSL1	0.980204897	0.000583891
RP11-485G7.6	PRSSL1	0.968928227	0.001433183
RP11-78A19.3	PRSSL1	0.972574579	0.001117917
Z69720.3	PRSSL1	0.977534648	0.000751369
AC005943.6	PRTN3	0.919396093	0.009483643
CTD-2139B15.2	PSAT1	0.96348237	0.001975957
RP11-91K8.5	PSAT1	0.955845423	0.002881398
CTA-315H11.2	PSD4	-0.968193	0.001501438
RP11-126K1.8	PSD4	0.920803824	0.009159691
RP3-438O4.4	PSD4	0.956282527	0.002825049

NUP50-AS1	PSD4	0.940117245	0.005271548
PSMD5-AS1	PSD4	0.977963014	0.000723092
TOPORS-AS1	PSD4	0.954796242	0.003018885
AC087294.2	PSD4	0.971825496	0.001179521
AP001062.8	PSD4	0.950989229	0.00354422
RP11-455F5.3	PSD4	0.976083828	0.000851135
RP11-326C3.2	PSD4	0.996181648	2.18E-05
AP006621.8	PSD4	0.983438245	0.000409166
JHDM1D-AS1	PSD4	0.979022759	0.000655452
RP11-20I23.6	PSD4	0.986458604	0.000273813
LL21NC02-21A1.1	PTPN4	0.82002788	0.045670301
RP11-160E2.19	PSD4	0.987681801	0.000226672
AC005786.7	PSD4	0.970275024	0.001312229
AC011558.5	PTPN4	0.811997799	0.049694789
AC005944.2	PSD4	0.950935843	0.003551881
CTB-191K22.5	PSD4	0.929996904	0.007179127
RP11-20I23.8	PSD4	0.980865699	0.000545679
RP11-93O14.2	MGAT5	0.878451237	0.021263266
CDC37L1-AS1	PSD4	0.964132177	0.001906679
RP11-78A19.3	MGAT5	0.887236251	0.018356562
Z69720.3	MGAT5	0.895184707	0.015903605
RP5-1142A6.10	PSD4	0.983478559	0.000407182
RP11-556I13.1	PSD4	0.979089015	0.000651332
AC011558.5	PSMB9	0.93152967	0.006871778
CTD-2139B15.2	PSMC4	0.926885182	0.007823237
CTA-315H11.2	PSME4	-0.928760596	0.007431807
RP11-66D17.5	PSME4	0.967880045	0.001530968
RP11-126K1.8	PSME4	0.982294634	0.000467445
RP3-438O4.4	PSME4	0.996606195	1.73E-05
NUP50-AS1	PSME4	0.992206522	9.09E-05
PSMD5-AS1	PSME4	0.979075714	0.000652158
TOPORS-AS1	PSME4	0.981232164	0.000525042
AC087294.2	PSME4	0.999589087	2.53E-07
AP001062.8	PSME4	0.997277564	1.11E-05
RP11-455F5.3	PSME4	0.998041561	5.75E-06
RP11-326C3.2	PSME4	0.978845428	0.00066654
AP006621.8	PSME4	0.97890996	0.000662494
JHDM1D-AS1	PSME4	0.997960333	6.24E-06
RP11-20I23.6	PSME4	0.993530325	6.26E-05
RP11-160E2.19	PSME4	0.926875686	0.007825244
AC005786.7	PSME4	0.993267836	6.78E-05
AC005944.2	PSME4	0.969728961	0.001360634
CTB-191K22.5	PSME4	0.987467742	0.000234602
CCDC144NL-AS1	FOXO4	-0.865876924	0.025777129
RP11-20I23.8	PSME4	0.997698566	7.94E-06
CDC37L1-AS1	PSME4	0.996386702	1.96E-05
RP5-1142A6.10	PSME4	0.983086542	0.000426678
RP11-556I13.1	PSME4	0.997925209	6.45E-06
CTA-315H11.2	PSMF1	-0.931168195	0.00694367
RP11-66D17.5	PSMF1	0.964671032	0.001850156
RP11-126K1.8	PSMF1	0.979090074	0.000651266
RP3-438O4.4	PSMF1	0.996263519	2.09E-05
NUP50-AS1	PSMF1	0.991045912	0.000119905
PSMD5-AS1	PSMF1	0.980652417	0.000557872
TOPORS-AS1	PSMF1	0.983583618	0.000402034
AC087294.2	PSMF1	0.99982214	4.74E-08
AP001062.8	PSMF1	0.99607024	2.31E-05
RP11-455F5.3	PSMF1	0.998483459	3.45E-06
RP11-326C3.2	PSMF1	0.982316571	0.000466291
AP006621.8	PSMF1	0.98084799	0.000546687
JHDM1D-AS1	PSMF1	0.998738314	2.39E-06
RP11-20I23.6	PSMF1	0.995746419	2.71E-05
RP11-160E2.19	PSMF1	0.933800039	0.006428594

AC005786.7	PSMF1	0.994950044	3.82E-05
LL21NC02-21A1.1	FOXO4	0.822616121	0.044406865
AC005944.2	PSMF1	0.970648319	0.001279638
CTB-191K22.5	PSMF1	0.985466736	0.000315289
RP11-20I23.8	PSMF1	0.99866497	2.67E-06
CDC37L1-AS1	PSMF1	0.996360474	1.98E-05
RP5-1142A6.10	PSMF1	0.986662746	0.000265637
RP11-556I13.1	PSMF1	0.998714914	2.48E-06
AC011558.5	PSMG2	-0.92824324	0.00753881
CTA-315H11.2	PSRC1	0.926510198	0.007902676
RP11-326C3.2	PSRC1	-0.924939168	0.008239742
RP11-160E2.19	PSRC1	-0.952274765	0.003362195
AC011558.5	PSRC1	-0.949204401	0.003804758
CTA-315H11.2	PSTPIP1	-0.949802011	0.003716512
RP11-126K1.8	PSTPIP1	0.94434943	0.004559304
RP3-438O4.4	PSTPIP1	0.967851772	0.00153365
NUP50-AS1	PSTPIP1	0.963509828	0.001973005
PSMD5-AS1	PSTPIP1	0.987300956	0.000240875
TOPORS-AS1	PSTPIP1	0.972867085	0.001094305
AC087294.2	PSTPIP1	0.983451567	0.00040851
AP001062.8	PSTPIP1	0.969586011	0.001373449
RP11-455F5.3	PSTPIP1	0.986443588	0.000274419
RP11-326C3.2	PSTPIP1	0.997731045	7.72E-06
AP006621.8	PSTPIP1	0.990182626	0.000144098
JHDM1D-AS1	PSTPIP1	0.986439665	0.000274577
CCDC144NL-AS1	RCN3	-0.876279311	0.022013329
RP11-20I23.6	PSTPIP1	0.995117954	3.57E-05
RP11-126K1.8	RCN3	0.853300585	0.030702539
RP3-438O4.4	RCN3	0.863993068	0.026488908
NUP50-AS1	RCN3	0.872106778	0.02348906
RP11-160E2.19	PSTPIP1	0.982184953	0.000473237
TOPORS-AS1	RCN3	0.885937266	0.018773465
AC087294.2	RCN3	0.901846271	0.013978418
AP001062.8	RCN3	0.878945839	0.021094194
RP11-455F5.3	RCN3	0.912518425	0.01114479
AC005786.7	PSTPIP1	0.985414723	0.000317544
AC005944.2	PSTPIP1	0.969136195	0.001414162
JHDM1D-AS1	RCN3	0.908516217	0.012171097
CTB-191K22.5	PSTPIP1	0.952871313	0.003279331
RP11-20I23.8	PSTPIP1	0.988744181	0.000189327
AC005786.7	RCN3	0.908757265	0.012108046
CDC37L1-AS1	PSTPIP1	0.971069867	0.001243322
CTB-191K22.5	RCN3	0.859243965	0.028324044
RP11-20I23.8	RCN3	0.915029653	0.010523198
CDC37L1-AS1	RCN3	0.872039995	0.023513051
RP5-1142A6.10	PSTPIP1	0.995280232	3.34E-05
RP11-556I13.1	RCN3	0.908428742	0.012194017
RP11-556I13.1	PSTPIP1	0.986431165	0.000274921
CCDC144NL-AS1	SYNE1	-0.91342348	0.010918774
CTA-315H11.2	PTCH1	-0.948957747	0.003841477
RP11-66D17.5	SYNE1	0.83079938	0.040521265
RP11-126K1.8	SYNE1	0.887849351	0.01816135
RP3-438O4.4	SYNE1	0.912944462	0.011038118
NUP50-AS1	SYNE1	0.901405231	0.014102176
RP11-66D17.5	PTCH1	0.946558028	0.00420775
TOPORS-AS1	SYNE1	0.915096131	0.010506979
RP11-126K1.8	PTCH1	0.970255318	0.001313961
AP001062.8	SYNE1	0.915197549	0.010482257
RP3-438O4.4	PTCH1	0.992828405	7.70E-05
NUP50-AS1	PTCH1	0.98121031	0.000526262
PSMD5-AS1	PTCH1	0.982140528	0.000475593
TOPORS-AS1	PTCH1	0.978940146	0.000660606
AC087294.2	PTCH1	0.998226626	4.71E-06

AP001062.8	PTCH1	0.98975734	0.000156831
RP11-455F5.3	PTCH1	0.998358254	4.04E-06
RP11-326C3.2	PTCH1	0.989612815	0.00016128
CTB-191K22.5	SYNE1	0.890083318	0.017458526
AP006621.8	PTCH1	0.984563609	0.000355584
JHDM1D-AS1	PTCH1	0.999895085	1.65E-08
RP11-20I23.6	PTCH1	0.996737497	1.59E-05
RP11-160E2.19	PTCH1	0.946305583	0.004247233
AC005786.7	PTCH1	0.990866381	0.000124754
RP11-473M20.11	MAP3K2	0.858364361	0.02867033
CCDC144NL-AS1	MAP3K2	-0.850377172	0.031905684
CTD-2531D15.5	MAP3K2	-0.882940537	0.019752349
RP11-160E2.19	MAP3K2	0.832200183	0.039872817
AC011558.5	MAP3K2	0.902214268	0.013875558
CCDC144NL-AS1	SH3BP5L	-0.848089176	0.032862532
AC005944.2	PTCH1	0.963808083	0.001941079
CTB-191K22.5	PTCH1	0.97432598	0.000980271
RP11-20I23.8	PTCH1	0.999647881	1.86E-07
CDC37L1-AS1	PTCH1	0.994947829	3.82E-05
RP5-1142A6.10	PTCH1	0.986254426	0.000282113
RP11-556I13.1	PTCH1	0.999905656	1.34E-08
CTA-315H11.2	PTEN	-0.967765548	0.001541843
RP11-66D17.5	PTEN	0.927546087	0.007684178
RP11-126K1.8	PTEN	0.96574774	0.001739733
RP3-438O4.4	PTEN	0.978871292	0.000664917
NUP50-AS1	PTEN	0.971802796	0.001181414
PSMD5-AS1	PTEN	0.991640446	0.000104531
TOPORS-AS1	PTEN	0.965158082	0.001799791
AC087294.2	PTEN	0.992788359	7.78E-05
AP001062.8	PTEN	0.982182925	0.000473344
RP11-455F5.3	PTEN	0.996060957	2.32E-05
RP11-326C3.2	PTEN	0.997021274	1.33E-05
AP006621.8	PTEN	0.994743888	4.14E-05
JHDM1D-AS1	PTEN	0.995637584	2.85E-05
RP11-20I23.6	PTEN	0.99527018	3.35E-05
LL21NC02-21A1.1	SH3BP5L	0.864021648	0.026478041
RP11-160E2.19	PTEN	0.965964451	0.001717914
AC005786.7	PTEN	0.983089415	0.000426534
AC005944.2	PTEN	0.968429295	0.001479331
CTB-191K22.5	PTEN	0.965159905	0.001799603
RP11-20I23.8	PTEN	0.996594469	1.74E-05
CDC37L1-AS1	PTEN	0.982825916	0.000439891
RP5-1142A6.10	PTEN	0.985306932	0.000322243
RP11-556I13.1	PTEN	0.995599977	2.90E-05
AC024028.1	PTGDS	0.945818544	0.004323917
LA16c-359F1.1	PCBP4	0.834618027	0.038765098
RP11-498J9.2	PTGDS	0.996161827	2.21E-05
RP11-34P13.14	PTGDS	0.969837193	0.001350971
RP11-93O14.2	PTGDS	0.978557011	0.000684773
RP11-485G7.6	PTGDS	0.970802694	0.001266279
RP11-78A19.3	PTGDS	0.973949345	0.001009115
Z69720.3	PTGDS	0.989910539	0.000152182
AC024028.1	PTGER1	0.923953661	0.008454679
RP11-498J9.2	PTGER1	0.974674707	0.000953934
RP11-34P13.14	PTGER1	0.990903996	0.00012373
RP11-93O14.2	PTGER1	0.977805844	0.000733405
RP11-485G7.6	PTGER1	0.92052193	0.009224123
RP11-78A19.3	PTGER1	0.964644158	0.001852955
Z69720.3	PTGER1	0.989791577	0.000155786
RP11-160E2.19	PTGER2	0.935951636	0.00602192
AC011558.5	PTGER2	0.987395605	0.000237305
RP11-498J9.2	PTGER3	0.945283039	0.004409009
RP11-34P13.14	PTGER3	0.975762927	0.000874035

RP11-93O14.2	PTGER3	0.960118071	0.002354135
RP11-78A19.3	PTGER3	0.939670335	0.005349713
RP11-680G24.6	PTGER3	0.925761361	0.008062485
Z69720.3	PTGER3	0.971163366	0.001235338
AC024028.1	PTGER4	0.99353408	6.26E-05
RP11-498J9.2	PTGER4	0.979800709	0.000607896
CCDC144NL-AS1	ANO9	-0.911992441	0.011277172
RP11-34P13.14	PTGER4	0.966268229	0.001687558
RP11-66D17.5	ANO9	0.849984519	0.032068944
RP11-126K1.8	ANO9	0.903938853	0.013398402
RP11-93O14.2	PTGER4	0.949966667	0.003692377
NUP50-AS1	ANO9	0.917005868	0.010046206
RP11-473M20.11	PTGER4	0.972365314	0.001134962
RP11-78A19.3	PTGER4	0.959628288	0.002411912
Z69720.3	PTGER4	0.950936493	0.003551788
RP11-326C3.2	PTGR1	-0.923410388	0.008574317
RP11-160E2.19	PTGR1	-0.975522231	0.000891409
AC011558.5	PTGR1	-0.986299431	0.000280273
AC024028.1	PTGS1	0.938000364	0.00564677
RP11-498J9.2	PTGS1	0.995195858	3.46E-05
RP11-34P13.14	PTGS1	0.976839754	0.000798384
RP11-93O14.2	PTGS1	0.994934279	3.84E-05
RP11-485G7.6	PTGS1	0.975510407	0.000892267
RP11-78A19.3	PTGS1	0.993411021	6.50E-05
CTB-191K22.5	ANO9	0.905406944	0.012998567
LA16c-359F1.1	PTGS1	0.933477627	0.006490651
Z69720.3	PTGS1	0.983880225	0.000387676
AC024028.1	PTGS2	0.964887416	0.001827695
RP11-498J9.2	PTGS2	0.999425566	4.95E-07
RP11-34P13.14	PTGS2	0.984761443	0.000346551
CCDC144NL-AS1	C7orf43	-0.869893602	0.024290313
RP11-93O14.2	PTGS2	0.984653799	0.000351452
RP11-485G7.6	PTGS2	0.958862392	0.002503646
RP11-78A19.3	PTGS2	0.983478377	0.000407191
Z69720.3	PTGS2	0.989508159	0.000164541
AC011558.5	PTH2R	-0.918787811	0.009625315
AC024028.1	PTK7	0.953166786	0.003238664
RP11-473M20.11	PTK7	0.98594111	0.000295089
AC024028.1	PTP4A3	0.959470506	0.002430672
RP11-473M20.11	PTP4A3	0.991613072	0.000105216
AC024028.1	PTPN1	0.918193737	0.009764663
RP11-498J9.2	PTPN1	0.98493179	0.000338866
RP11-34P13.14	PTPN1	0.98341967	0.000410082
RP11-93O14.2	PTPN1	0.992085286	9.37E-05
RP11-485G7.6	PTPN1	0.957870612	0.002624941
RP11-78A19.3	PTPN1	0.984160356	0.000374354
RP11-680G24.6	PTPN1	0.919651813	0.00942439
LA16c-359F1.1	PTPN1	0.941781828	0.004985372
Z69720.3	PTPN1	0.989838134	0.000154371
AC024028.1	PTPN22	0.937321277	0.005769813
RP11-498J9.2	PTPN22	0.957078232	0.00272388
LL21NC02-21A1.1	C7orf43	0.819592839	0.045884283
RP11-34P13.14	PTPN22	0.993514948	6.29E-05
RP11-93O14.2	PTPN22	0.953771354	0.003156234
AC011558.5	C7orf43	0.814119673	0.048616022
CCDC144NL-AS1	FBXO44	-0.843542397	0.034803511
CTA-315H11.2	FBXO44	-0.881249659	0.020315178
CTD-2541M15.3	FBXO44	-0.823186915	0.044130459
PSMD5-AS1	FBXO44	0.881095327	0.020366926
AC087294.2	FBXO44	0.812582598	0.049396379
RP11-455F5.3	FBXO44	0.827356006	0.042136014
RP11-326C3.2	FBXO44	0.898436491	0.014948898
AP006621.8	FBXO44	0.888104051	0.018080547

JHDM1D-AS1	FBXO44	0.823295028	0.044078195
RP11-20I23.6	FBXO44	0.855912156	0.029646234
RP11-78A19.3	PTPN22	0.941210493	0.005082715
AC005786.7	FBXO44	0.823166802	0.044140185
AC005944.2	FBXO44	0.847918799	0.032934318
RP11-20I23.8	FBXO44	0.831651249	0.040126342
RP5-1142A6.10	FBXO44	0.873195194	0.023099712
RP11-556I13.1	FBXO44	0.823223201	0.044112914
Z69720.3	PTPN22	0.975912327	0.000863336
CTA-315H11.2	TMEM175	-0.879191985	0.021010294
CTA-315H11.2	PTPN4	-0.956885917	0.002748165
RP11-66D17.5	PTPN4	0.946989005	0.004140764
RP11-126K1.8	PTPN4	0.977992938	0.000721137
RP3-438O4.4	PTPN4	0.987085975	0.000249081
NUP50-AS1	PTPN4	0.982775425	0.000442474
PSMD5-AS1	PTPN4	0.990316397	0.000140204
TOPORS-AS1	PTPN4	0.969550564	0.001376636
AC087294.2	PTPN4	0.997616462	8.52E-06
AP001062.8	PTPN4	0.99136639	0.000111487
RP11-455F5.3	PTPN4	0.999308071	7.18E-07
RP11-326C3.2	PTPN4	0.99089636	0.000123937
AP006621.8	PTPN4	0.991771253	0.00010129
JHDM1D-AS1	PTPN4	0.998343726	4.11E-06
RP11-160E2.19	TMEM175	0.869395416	0.024472439
RP11-20I23.6	PTPN4	0.995448698	3.10E-05
RP11-160E2.19	PTPN4	0.95040715	0.003628191
AC005786.7	PTPN4	0.987398459	0.000237198
AC005944.2	PTPN4	0.972782233	0.001101129
CTB-191K22.5	PTPN4	0.978060775	0.000716714
RP11-20I23.8	PTPN4	0.998879325	1.88E-06
CDC37L1-AS1	PTPN4	0.989608414	0.000161417
RP5-1142A6.10	PTPN4	0.983956166	0.000384042
CCDC144NL-AS1	JAZF1	-0.868290487	0.024878685
RP11-556I13.1	PTPN4	0.998286735	4.40E-06
AC024028.1	PTPN5	0.963214628	0.002004857
RP11-498J9.2	PTPN5	0.999983237	4.21E-10
RP11-34P13.14	PTPN5	0.977596867	0.000747228
RP11-93O14.2	PTPN5	0.983196619	0.000421158
RP11-485G7.6	PTPN5	0.966785906	0.001636444
RP11-78A19.3	PTPN5	0.983539798	0.000404178
Z69720.3	PTPN5	0.986223672	0.000283374
CTD-2139B15.2	PTPRC	-0.983849217	0.000389165
RP11-91K8.5	PTPRC	-0.923897232	0.008467067
AC024028.1	PTPRE	0.991823813	0.000100002
RP11-498J9.2	PTPRE	0.990043203	0.000148213
RP11-34P13.14	PTPRE	0.973325814	0.001057779
RP11-93O14.2	PTPRE	0.958097081	0.002596994
RP11-485G7.6	PTPRE	0.928078205	0.0075731
RP11-473M20.11	PTPRE	0.962234831	0.002112382
RP11-78A19.3	PTPRE	0.963040863	0.002023724
Z69720.3	PTPRE	0.968958293	0.001430426
CCDC144NL-AS1	PTPRF	-0.924719182	0.008287487
CTA-315H11.2	PTPRF	-0.958856179	0.002504397
LL21NC02-21A1.1	JAZF1	0.820800632	0.045291358
RP11-126K1.8	PTPRF	0.962318839	0.002103054
RP3-438O4.4	PTPRF	0.927023345	0.007794066
CCDC144NL-AS1	CASP1	-0.897626722	0.015183981
NUP50-AS1	PTPRF	0.948060383	0.003976526
RP11-66D17.5	CASP1	0.849541515	0.032253612
RP11-126K1.8	CASP1	0.900951242	0.014230118
RP3-438O4.4	CASP1	0.911080453	0.011508499
NUP50-AS1	CASP1	0.914860483	0.010564529
PSMD5-AS1	PTPRF	0.990782469	0.000127053

AC087294.2	PTPRF	0.960291339	0.002333861
AP001062.8	PTPRF	0.957552903	0.002664394
RP11-455F5.3	PTPRF	0.969321528	0.001397316
RP11-326C3.2	PTPRF	0.974209877	0.000989119
AP006621.8	PTPRF	0.991047925	0.000119851
JHDM1D-AS1	PTPRF	0.959434991	0.002434905
RP11-20I23.6	PTPRF	0.962352819	0.002099286
RP11-160E2.19	PTPRF	0.955824787	0.002884071
AC005786.7	PTPRF	0.943411721	0.004712746
AC005944.2	PTPRF	0.969063345	0.001420811
CTB-191K22.5	PTPRF	0.945646094	0.004351231
CTB-191K22.5	CASP1	0.904280225	0.013304908
RP11-20I23.8	PTPRF	0.963357761	0.001989382
CDC37L1-AS1	PTPRF	0.929912859	0.00719617
RP5-1142A6.10	PTPRF	0.952300585	0.003358588
RP11-556I13.1	PTPRF	0.959149626	0.002469045
CTA-315H11.2	PTPRK	-0.964911388	0.001825215
CCDC144NL-AS1	EMR1	-0.909536877	0.011905209
RP11-66D17.5	PTPRK	0.918910635	0.009596627
RP11-126K1.8	EMR1	0.864950923	0.02612585
RP3-438O4.4	EMR1	0.882202457	0.019997097
NUP50-AS1	EMR1	0.878390391	0.02128411
RP11-126K1.8	PTPRK	0.954714132	0.003029778
TOPORS-AS1	EMR1	0.892876426	0.016598544
AC087294.2	EMR1	0.916644667	0.010132586
AP001062.8	EMR1	0.890876404	0.017212219
RP3-438O4.4	PTPRK	0.97537762	0.000901929
NUP50-AS1	PTPRK	0.96634245	0.001680182
PSMD5-AS1	PTPRK	0.989424602	0.000167167
TOPORS-AS1	PTPRK	0.968761173	0.001448554
AC087294.2	PTPRK	0.989491189	0.000165072
AP001062.8	PTPRK	0.976078632	0.000851503
AC005786.7	EMR1	0.915591035	0.010386609
RP11-455F5.3	PTPRK	0.992773966	7.81E-05
CTB-191K22.5	EMR1	0.86563694	0.025867291
RP11-326C3.2	PTPRK	0.999357671	6.19E-07
CDC37L1-AS1	EMR1	0.891912975	0.016892828
AP006621.8	PTPRK	0.993198741	6.92E-05
JHDM1D-AS1	PTPRK	0.99327598	6.77E-05
RP11-20I23.6	PTPRK	0.996097766	2.28E-05
RP11-156P1.3	RAP1GAP	-0.863296257	0.026754516
RP11-66D17.5	RAP1GAP	0.89106179	0.017154886
RP11-126K1.8	RAP1GAP	0.906446151	0.012719077
NUP50-AS1	RAP1GAP	0.8640771	0.026456962
AP001062.8	RAP1GAP	0.854647545	0.030155549
AC005944.2	RAP1GAP	0.839965909	0.036367056
CTB-191K22.5	RAP1GAP	0.881106159	0.020363291
RP11-160E2.19	PTPRK	0.974782054	0.000945899
CCDC144NL-AS1	PSTPIP1	-0.873809828	0.022881216
AC005786.7	PTPRK	0.983865617	0.000388377
RP11-66D17.5	PSTPIP1	0.915945412	0.01030083
AC005944.2	PTPRK	0.965724059	0.001742126
CTB-191K22.5	PTPRK	0.95753308	0.002666866
RP11-20I23.8	PTPRK	0.994539618	4.46E-05
CDC37L1-AS1	PTPRK	0.979528618	0.000624327
RP5-1142A6.10	PTPRK	0.98961038	0.000161356
RP11-556I13.1	PTPRK	0.993269626	6.78E-05
CTA-315H11.2	PTPRN	-0.946964022	0.004144632
RP11-66D17.5	PTPRN	0.949771417	0.003721005
RP11-126K1.8	PTPRN	0.974262554	0.0009851
RP3-438O4.4	PTPRN	0.992787159	7.78E-05
NUP50-AS1	PTPRN	0.983763672	0.000393287
PSMD5-AS1	PTPRN	0.983651509	0.000398725

TOPORS-AS1	PTPRN	0.97905231	0.000653613
AC087294.2	PTPRN	0.998974764	1.58E-06
AP001062.8	PTPRN	0.991861608	9.91E-05
RP11-455F5.3	PTPRN	0.999213349	9.28E-07
RP11-326C3.2	PTPRN	0.989109012	0.000177275
AP006621.8	PTPRN	0.98567762	0.000306227
JHDM1D-AS1	PTPRN	0.999939528	5.49E-09
RP11-20I23.6	PTPRN	0.996711636	1.62E-05
AC011558.5	PSTPIP1	0.888526704	0.017946843
RP11-160E2.19	PTPRN	0.944693537	0.004503621
AC005786.7	PTPRN	0.991279292	0.000113745
AC005944.2	PTPRN	0.966127509	0.001701587
CTB-191K22.5	PTPRN	0.977014785	0.000786408
RP11-485G7.6	ADAM28	0.890750679	0.017251153
RP11-20I23.8	PTPRN	0.999811652	5.32E-08
CDC37L1-AS1	PTPRN	0.994199897	5.04E-05
RP5-1142A6.10	PTPRN	0.986243848	0.000282546
CCDC144NL-AS1	GZMA	-0.905815908	0.012888228
RP11-556I13.1	PTPRN	0.99992853	7.66E-09
RP11-66D17.5	GZMA	0.897836137	0.015123017
RP3-339A18.6	PTPRR	0.97705982	0.000783342
LLNLR-284B4.1	PTPRVP	-0.952858015	0.003281167
RP11-77G23.2	PTPRVP	0.93792771	0.005659872
RP11-498J9.2	PTRF	0.967545844	0.001562817
RP11-34P13.14	PTRF	0.974238672	0.000986921
RP11-93O14.2	PTRF	0.978022129	0.000719232
RP11-485G7.6	PTRF	0.929942204	0.007190217
RP11-78A19.3	PTRF	0.960816373	0.002272954
Z69720.3	PTRF	0.980102106	0.00058995
AC024028.1	PTX3	0.979952388	0.000598831
RP11-498J9.2	PTX3	0.997615556	8.52E-06
RP11-34P13.14	PTX3	0.977013777	0.000786477
RP11-93O14.2	PTX3	0.972650925	0.001111173
RP11-485G7.6	PTX3	0.950810737	0.003569867
RP11-473M20.11	PTX3	0.940367707	0.005227989
RP11-78A19.3	PTX3	0.975614164	0.000884753
Z69720.3	PTX3	0.979778488	0.00060923
RP11-77G23.2	PUS10	0.94422575	0.0045794
RP11-77G23.2	PUS7	0.976668377	0.000810197
RP11-160E2.19	PVT1	-0.929960284	0.007186551
AC011558.5	GZMA	0.890725637	0.017258913
AC011558.5	PVT1	-0.972469816	0.001126434
AC024028.1	PXDN	0.963287261	0.001996997
RP11-498J9.2	PXDN	0.999950659	3.65E-09
RP11-34P13.14	PXDN	0.978338504	0.000698749
RP11-93O14.2	PXDN	0.983429019	0.000409621
RP11-485G7.6	PXDN	0.965595626	0.00175513
RP11-78A19.3	PXDN	0.983054448	0.000428295
Z69720.3	PXDN	0.986700107	0.000264154
CTA-315H11.2	PXN	-0.957737415	0.002641446
RP11-126K1.8	PXN	0.943728247	0.004660673
RP3-438O4.4	PXN	0.971493609	0.001207339
NUP50-AS1	PXN	0.961536362	0.002190725
PSMD5-AS1	PXN	0.985684913	0.000305916
TOPORS-AS1	PXN	0.971932633	0.00117061
AC087294.2	PXN	0.985239154	0.000325216
AP001062.8	PXN	0.969833068	0.001351339
RP11-455F5.3	PXN	0.988167386	0.000209188
RP11-326C3.2	PXN	0.999000006	1.50E-06
AP006621.8	PXN	0.989607509	0.000161445
JHDM1D-AS1	PXN	0.989466891	0.000165835
RP11-20I23.6	PXN	0.995599957	2.90E-05
CCDC144NL-AS1	POC1B	-0.895673261	0.015758353

RP11-160E2.19	PXN	0.980306263	0.000577946
AC005786.7	PXN	0.984387496	0.000363723
AC005944.2	PXN	0.963606512	0.001962628
CTB-191K22.5	PXN	0.951074412	0.003532013
RP11-20I23.8	PXN	0.991089916	0.000118731
CDC37L1-AS1	PXN	0.97569142	0.000879179
RP5-1142A6.10	PXN	0.992921612	7.50E-05
RP11-556I13.1	PXN	0.989488371	0.000165161
AC024028.1	PYGL	0.95419577	0.003098992
RP11-473M20.11	PYGL	0.981479357	0.000511345
CTA-315H11.2	PYHIN1	-0.965381315	0.001776936
RP11-126K1.8	PYHIN1	0.952630539	0.003312653
RP3-438O4.4	PYHIN1	0.97284161	0.001096352
NUP50-AS1	PYHIN1	0.964096913	0.001910407
PSMD5-AS1	PYHIN1	0.989282353	0.000171686
TOPORS-AS1	PYHIN1	0.967358467	0.001580815
AC087294.2	PYHIN1	0.987907272	0.000218467
AP001062.8	PYHIN1	0.974036391	0.001002412
RMRP	POC1B	0.841447862	0.035715267
RP11-455F5.3	PYHIN1	0.991548006	0.000106852
RP11-326C3.2	PYHIN1	0.999668383	1.65E-07
AP006621.8	PYHIN1	0.993296607	6.73E-05
JHDM1D-AS1	PYHIN1	0.991892379	9.83E-05
CCDC144NL-AS1	TPM2	-0.894598905	0.016078615
RP11-20I23.6	PYHIN1	0.995256207	3.37E-05
RP11-160E2.19	PYHIN1	0.976672762	0.000809893
AC005786.7	PYHIN1	0.98235724	0.000464155
AC005944.2	PYHIN1	0.964597225	0.001857849
CTB-191K22.5	PYHIN1	0.954807582	0.003017382
RP11-20I23.8	PYHIN1	0.993276945	6.76E-05
CDC37L1-AS1	PYHIN1	0.97696613	0.000789728
RP5-1142A6.10	PYHIN1	0.989178175	0.000175034
RP11-556I13.1	PYHIN1	0.991883061	9.86E-05
RP11-156P1.3	QPCTL	0.920560075	0.009215392
RMRP	QPCTL	-0.936721821	0.005879505
RP4-784A16.3	QSER1	0.917784236	0.009861282
RP5-1033H22.2	QTRTD1	0.960866095	0.002267228
RP11-298J23.8	QTRTD1	0.929778846	0.007223385
RP11-165D6.1	QTRTD1	0.964154989	0.001904269
AC024028.1	RAB11FIP1	0.950441765	0.00362317
RP11-498J9.2	RAB11FIP1	0.995450944	3.10E-05
RP11-34P13.14	RAB11FIP1	0.987683473	0.000226611
RP11-93O14.2	RAB11FIP1	0.990741031	0.000128196
RP11-485G7.6	RAB11FIP1	0.960853947	0.002268626
RP11-78A19.3	RAB11FIP1	0.990423963	0.000137112
LA16c-359F1.1	RAB11FIP1	0.931519301	0.006873835
AC011558.5	TPM2	0.867024919	0.025347901
CCDC144NL-AS1	YIPF6	-0.866921116	0.025386571
Z69720.3	RAB11FIP1	0.989362865	0.000169121
CTA-315H11.2	RAB25	-0.96496624	0.001819547
RP11-66D17.5	RAB25	0.925504482	0.008117664
RP11-126K1.8	RAB25	0.957100307	0.002721099
RP3-438O4.4	RAB25	0.982523735	0.000455461
NUP50-AS1	RAB25	0.968727669	0.001451646
PSMD5-AS1	RAB25	0.985364121	0.000319746
TOPORS-AS1	RAB25	0.970138044	0.00132429
AC087294.2	RAB25	0.992347316	8.76E-05
AP001062.8	RAB25	0.97921587	0.000643481
RP11-455F5.3	RAB25	0.994438554	4.63E-05
RP11-326C3.2	RAB25	0.99622717	2.13E-05
AP006621.8	RAB25	0.989150065	0.000175943
JHDM1D-AS1	RAB25	0.996360883	1.98E-05
RP11-20I23.6	RAB25	0.996009107	2.39E-05

RP11-160E2.19	RAB25	0.964948084	0.001821422
AC005786.7	RAB25	0.984973844	0.000336982
AC005944.2	RAB25	0.962071704	0.002130552
CTB-191K22.5	RAB25	0.961252877	0.002222923
RP11-20I23.8	RAB25	0.99679224	1.54E-05
LL21NC02-21A1.1	YIPF6	0.832065714	0.039934852
CDC37L1-AS1	RAB25	0.987275631	0.000241834
RP5-1142A6.10	RAB25	0.986678118	0.000265027
CCDC144NL-AS1	CLEC2D	-0.884713613	0.019170294
RP11-556I13.1	RAB25	0.99638601	1.96E-05
RP11-66D17.5	CLEC2D	0.898617944	0.014896463
AC024028.1	RAB27B	0.921247607	0.0090587
RP11-498J9.2	RAB27B	0.981676262	0.000500563
RP11-34P13.14	RAB27B	0.987820252	0.000221616
RP11-93O14.2	RAB27B	0.995096675	3.60E-05
RP11-485G7.6	RAB27B	0.947892974	0.004001974
RP11-78A19.3	RAB27B	0.988592878	0.000194441
RP11-680G24.6	RAB27B	0.93066498	0.007044359
LA16c-359F1.1	RAB27B	0.948543267	0.00390357
Z69720.3	RAB27B	0.9831201	0.000424992
CTA-315H11.2	RAB2B	-0.95617202	0.002839243
RP11-66D17.5	RAB2B	0.937435398	0.005749045
RP11-126K1.8	RAB2B	0.967753059	0.001543032
RP3-438O4.4	RAB2B	0.988071448	0.000212587
NUP50-AS1	RAB2B	0.977112223	0.000779781
PSMD5-AS1	RAB2B	0.985368885	0.000319538
TOPORS-AS1	RAB2B	0.975653447	0.000881916
AC087294.2	RAB2B	0.996602268	1.73E-05
AP001062.8	RAB2B	0.986744662	0.000262391
RP11-455F5.3	RAB2B	0.997987933	6.07E-06
RP11-326C3.2	RAB2B	0.993669402	6.00E-05
AC011558.5	CLEC2D	0.876595251	0.021903449
CCDC144NL-AS1	TECPR1	-0.885757513	0.01883151
AP006621.8	RAB2B	0.988534492	0.000196433
JHDM1D-AS1	RAB2B	0.999004077	1.49E-06
RP11-20I23.6	RAB2B	0.996915833	1.43E-05
RP11-160E2.19	RAB2B	0.954758204	0.003023929
AC005786.7	RAB2B	0.988411641	0.000200657
AC005944.2	RAB2B	0.963570309	0.00196651
CTB-191K22.5	RAB2B	0.969329719	0.001396574
RP11-20I23.8	RAB2B	0.999091875	1.24E-06
CDC37L1-AS1	RAB2B	0.990521924	0.000134325
RP5-1142A6.10	RAB2B	0.986798129	0.000260284
RP11-556I13.1	RAB2B	0.999003011	1.49E-06
AC024028.1	RAB30	0.97119066	0.001233012
RP11-498J9.2	RAB30	0.997042405	1.31E-05
RP11-34P13.14	RAB30	0.989022154	0.000180108
RP11-93O14.2	RAB30	0.984358406	0.000365076
RP11-485G7.6	RAB30	0.948789931	0.003866558
RP11-473M20.11	RAB30	0.924269624	0.008385475
RP11-78A19.3	RAB30	0.985543197	0.000311988
Z69720.3	RAB30	0.984877863	0.000341289
AC024028.1	RAB34	0.949362118	0.00378137
RP11-498J9.2	RAB34	0.99430528	4.86E-05
RP11-34P13.14	RAB34	0.960871975	0.002266551
AC011558.5	TECPR1	0.849807999	0.032142468
CCDC144NL-AS1	GABBR1	-0.882341993	0.019950716
CTB-31O20.6	GABBR1	-0.822714494	0.044359171
RP11-93O14.2	RAB34	0.975468539	0.000895307
RP11-485G7.6	RAB34	0.969687332	0.00136436
RP11-91K8.5	GABBR1	-0.822518759	0.044454093
RP11-326C3.2	GABBR1	0.84309192	0.034998668
AP006621.8	GABBR1	0.819001572	0.046175853

RP11-160E2.19	GABBR1	0.891427112	0.017042176
AC011558.5	GABBR1	0.896624692	0.015477324
RP11-78A19.3	RAB34	0.971217152	0.001230756
RP11-498J9.2	CNOT6L	0.871715179	0.023629902
RP11-34P13.14	CNOT6L	0.892816867	0.016616664
RP11-93O14.2	CNOT6L	0.826603417	0.042492859
Z69720.3	RAB34	0.979120245	0.000649395
RP11-78A19.3	CNOT6L	0.840648505	0.03606615
Z69720.3	CNOT6L	0.837566627	0.037434031
CTD-2621I17.8	RASSF4	-0.834601055	0.038772823
CCDC144NL-AS1	COL6A2	-0.899336768	0.014689615
AC024028.1	RAB37	0.982356525	0.000464192
RP11-66D17.5	COL6A2	0.839298409	0.036662442
RP11-126K1.8	COL6A2	0.899403651	0.014670439
RP3-438O4.4	COL6A2	0.887361796	0.018316507
NUP50-AS1	COL6A2	0.903641258	0.013480165
RP11-473M20.11	RAB37	0.998183066	4.95E-06
TOPORS-AS1	COL6A2	0.888803864	0.017859424
RP3-339A18.6	RAB38	0.944689206	0.00450432
AP001062.8	COL6A2	0.911405527	0.011425783
AC024028.1	RAB3C	0.932269913	0.006725696
RP11-498J9.2	RAB3C	0.989655793	0.00015995
RP11-34P13.14	RAB3C	0.943232632	0.004742334
RP11-93O14.2	RAB3C	0.967341597	0.001582441
RP11-485G7.6	RAB3C	0.985257577	0.000324406
RP11-78A19.3	RAB3C	0.966960758	0.001619355
Z69720.3	RAB3C	0.973966301	0.001007808
RP3-337H4.8	RAB6B	0.933411324	0.006503449
CTB-191K22.5	COL6A2	0.898312856	0.014984676
RP11-91K8.5	RACGAP1	0.918689761	0.009648247
CDC37L1-AS1	COL6A2	0.896099797	0.015632064
AC011558.5	RACGAP1	-0.917329553	0.009969103
RP11-77G23.2	RAD18	0.946126501	0.004275351
AC011558.5	RAD51AP1	-0.969965364	0.001339572
AC024028.1	C3orf18	0.881015949	0.020393566
AC011558.5	RAD51C	-0.935865908	0.006037875
AC011558.5	C3orf18	0.907769275	0.012367479
LLNLR-284B4.1	RAD54B	-0.917531983	0.009921029
AC011558.5	RAD54B	-0.963091367	0.002018231
RP11-91K8.5	RAG2	0.945671029	0.004347276
CTA-315H11.2	RALBP1	-0.956509712	0.002795979
CCDC144NL-AS1	SH2D3C	-0.897612118	0.015188237
RP11-66D17.5	RALBP1	0.93980086	0.005326826
RP11-66D17.5	SH2D3C	0.845336688	0.03403128
RP11-126K1.8	SH2D3C	0.896101971	0.015631421
RP3-438O4.4	SH2D3C	0.912223212	0.011218997
NUP50-AS1	SH2D3C	0.911675302	0.011357357
RP11-126K1.8	RALBP1	0.971178919	0.001234012
RP3-438O4.4	RALBP1	0.990215433	0.000143138
NUP50-AS1	RALBP1	0.976542292	0.000818942
PSMD5-AS1	RALBP1	0.980373944	0.000573993
TOPORS-AS1	RALBP1	0.970164594	0.001321948
AC087294.2	RALBP1	0.996319384	2.03E-05
AP001062.8	RALBP1	0.987709467	0.000225658
RP11-455F5.3	RALBP1	0.997245487	1.14E-05
RP11-326C3.2	RALBP1	0.987622558	0.000228853
AP006621.8	RALBP1	0.983627826	0.000399878
JHDM1D-AS1	RALBP1	0.9987016	2.53E-06
RP11-20I23.6	RALBP1	0.992530628	8.35E-05
CTB-191K22.5	SH2D3C	0.900708663	0.014298709
RP11-160E2.19	RALBP1	0.94099428	0.005119793
AC005786.7	RALBP1	0.983971089	0.00038333
AC005944.2	RALBP1	0.957218752	0.002706203

CTB-191K22.5	RALBP1	0.970352895	0.001305397
RP11-20I23.8	RALBP1	0.998004537	5.97E-06
CCDC144NL-AS1	BTN3A2	-0.884345731	0.019290374
CDC37L1-AS1	RALBP1	0.992912965	7.52E-05
RP5-1142A6.10	RALBP1	0.97827554	0.000702802
RP11-556I13.1	RALBP1	0.99870444	2.52E-06
RP11-93O14.2	RALGPS2	0.96417461	0.001902198
RP11-485G7.6	RALGPS2	0.923661512	0.008518913
RP11-78A19.3	RALGPS2	0.962259087	0.002109686
RP11-680G24.6	RALGPS2	0.939315884	0.005412106
LA16c-359F1.1	RALGPS2	0.976995985	0.00078769
AC024028.1	RAMP1	0.954112334	0.003110204
RP11-498J9.2	RAMP1	0.998681804	2.61E-06
RP11-34P13.14	RAMP1	0.977422907	0.000758834
RP11-93O14.2	RAMP1	0.985882311	0.000297557
RP11-485G7.6	RAMP1	0.967934176	0.00152584
RP11-78A19.3	RAMP1	0.982696252	0.000446539
Z69720.3	RAMP1	0.988177829	0.000208819
LL21NC02-21A1.1	RAP1GAP	0.921157928	0.009079064
AC024028.1	RAPGEF3	0.958523795	0.002544738
RP11-498J9.2	RAPGEF3	0.999419302	5.06E-07
RP11-34P13.14	RAPGEF3	0.981764629	0.000495761
RP11-93O14.2	RAPGEF3	0.984918255	0.000339473
RP11-485G7.6	RAPGEF3	0.965418525	0.00177314
RP11-78A19.3	RAPGEF3	0.983860357	0.00038863
AC011558.5	BTN3A2	0.816941456	0.047198461
CCDC144NL-AS1	CBX7	-0.896507295	0.015511868
Z69720.3	RAPGEF3	0.99085845	0.00012497
RP11-498J9.2	RAPH1	0.947197695	0.004108517
RP11-34P13.14	RAPH1	0.946649728	0.004193453
RP11-93O14.2	RAPH1	0.976723519	0.000806386
RP11-485G7.6	RAPH1	0.949372539	0.003779827
RP11-78A19.3	RAPH1	0.962931429	0.002035651
RP11-680G24.6	RAPH1	0.945687804	0.004344616
LA16c-359F1.1	RAPH1	0.960254555	0.002338158
Z69720.3	RAPH1	0.961562328	0.002187787
AC024028.1	RARA	0.932374568	0.006705166
RP11-473M20.11	RARA	0.974471398	0.000969246
AC024028.1	RARRES2	0.964355341	0.001883169
RP11-498J9.2	RARRES2	1	0
RP11-34P13.14	RARRES2	0.978552256	0.000685076
RP11-93O14.2	RARRES2	0.982998398	0.000431125
RP11-485G7.6	RARRES2	0.965304842	0.001784749
RP11-78A19.3	RARRES2	0.983256999	0.000418145
Z69720.3	RARRES2	0.986539728	0.000270549
RP11-66D17.5	RARRES3	0.958249313	0.002578292
RP11-126K1.8	RARRES3	0.979385636	0.000633048
LL21NC02-21A1.1	CBX7	0.812589237	0.049392996
RP3-438O4.4	RARRES3	0.927352749	0.007724732
NUP50-AS1	RARRES3	0.972564535	0.001118732
PSMD5-AS1	RARRES3	0.972924304	0.001089715
AC087294.2	RARRES3	0.952224902	0.003369168
AP001062.8	RARRES3	0.96707091	0.001608635
RP11-455F5.3	RARRES3	0.954970095	0.002995885
RP11-326C3.2	RARRES3	0.931989487	0.006780856
AP006621.8	RARRES3	0.963333744	0.001991974
JHDM1D-AS1	RARRES3	0.940953829	0.005126745
LA16c-359F1.1	CNNM4	0.86289632	0.026907531
RP11-20I23.6	RARRES3	0.945707679	0.004341467
CCDC144NL-AS1	EIF2C2	-0.836510844	0.03790813
AC005786.7	RARRES3	0.94703381	0.00413383
AC005944.2	RARRES3	0.98932017	0.000170479
CTB-191K22.5	RARRES3	0.978510971	0.000687706

RP11-20I23.8	RARRES3	0.945941909	0.004304429
CDC37L1-AS1	RARRES3	0.925172287	0.008189293
RP5-1142A6.10	RARRES3	0.941723524	0.004995264
RP11-556I13.1	RARRES3	0.940558698	0.005194892
AC024028.1	RASAL1	0.956894358	0.002747097
RP11-498J9.2	RASAL1	0.999490908	3.89E-07
RP11-34P13.14	RASAL1	0.980162522	0.000586385
RP11-93O14.2	RASAL1	0.987157976	0.000246317
RP11-485G7.6	RASAL1	0.967841838	0.001534593
RP11-78A19.3	RASAL1	0.985832544	0.000299653
Z69720.3	RASAL1	0.988575455	0.000195035
CTA-315H11.2	RASAL3	-0.963052467	0.002022461
RP3-438O4.4	RASAL3	0.943212746	0.004745625
NUP50-AS1	RASAL3	0.933271625	0.006530454
PSMD5-AS1	RASAL3	0.978436876	0.000692439
TOPORS-AS1	RASAL3	0.94889206	0.003851285
AC087294.2	RASAL3	0.964007542	0.001919872
LL21NC02-21A1.1	EIF2C2	0.81595645	0.047691078
AP001062.8	RASAL3	0.943173524	0.004752119
RP11-455F5.3	RASAL3	0.969718431	0.001361576
CCDC144NL-AS1	ATP8B2	-0.898565011	0.01491175
RP11-326C3.2	RASAL3	0.995242531	3.39E-05
RP11-66D17.5	ATP8B2	0.813104914	0.049130558
RP11-126K1.8	ATP8B2	0.864406678	0.026331844
AP006621.8	RASAL3	0.983869331	0.000388199
NUP50-AS1	ATP8B2	0.878895782	0.021111276
JHDM1D-AS1	RASAL3	0.970775547	0.001268623
TOPORS-AS1	ATP8B2	0.904903773	0.013134947
RP11-20I23.6	RASAL3	0.981930994	0.000486784
AP001062.8	ATP8B2	0.901200759	0.014159731
RP11-160E2.19	RASAL3	0.994442228	4.62E-05
AC005786.7	RASAL3	0.964435839	0.001874723
AC005944.2	RASAL3	0.950906999	0.003556024
CTB-191K22.5	RASAL3	0.921454089	0.009011897
RP11-20I23.8	RASAL3	0.973609309	0.001035513
CDC37L1-AS1	RASAL3	0.950057971	0.003679027
RP5-1142A6.10	RASAL3	0.982371002	0.000463433
AC005944.2	ATP8B2	0.880508979	0.020564103
CTB-191K22.5	ATP8B2	0.868285806	0.024880413
RP11-556I13.1	RASAL3	0.970799427	0.001266561
AC011558.5	RASAL3	0.922954084	0.008675435
AC024028.1	RASD2	0.962537744	0.002078843
RP11-498J9.2	RASD2	0.999826244	4.53E-08
AC011558.5	ATP8B2	0.873623292	0.022947423
CCDC144NL-AS1	STRADB	-0.864301345	0.026371802
RP11-34P13.14	RASD2	0.976215857	0.000841801
RP11-93O14.2	RASD2	0.983508555	0.000405709
RP11-485G7.6	RASD2	0.967323071	0.001584227
RP11-78A19.3	RASD2	0.98328018	0.000416992
Z69720.3	RASD2	0.984982824	0.00033658
AC024028.1	RASGEF1A	0.952286029	0.003360621
RP11-498J9.2	RASGEF1A	0.998629867	2.81E-06
RP11-34P13.14	RASGEF1A	0.972834591	0.001096916
RP11-93O14.2	RASGEF1A	0.987590451	0.00023004
RP11-485G7.6	RASGEF1A	0.974051161	0.001001277
RP11-78A19.3	RASGEF1A	0.986410255	0.000275767
Z69720.3	RASGEF1A	0.983211525	0.000420413
AC024028.1	RASGEF1B	0.966587943	0.001655898
RP11-498J9.2	RASGEF1B	0.999623039	2.13E-07
RP11-34P13.14	RASGEF1B	0.978013994	0.000719763
RP11-93O14.2	RASGEF1B	0.980069143	0.0005919
RP11-485G7.6	RASGEF1B	0.964135741	0.001906302
RP11-473M20.11	RASGEF1B	0.918949667	0.009587518

RP11-78A19.3	RASGEF1B	0.981836138	0.000491892
Z69720.3	RASGEF1B	0.986388537	0.000276647
LL21NC02-21A1.1	STRADB	0.822072632	0.044670797
CTA-315H11.2	RASGRP1	-0.968472276	0.001475327
RP11-126K1.8	RASGRP1	0.948701421	0.003879819
CCDC144NL-AS1	BTN3A1	-0.903212029	0.013598516
RP3-438O4.4	RASGRP1	0.968376561	0.00148425
RP11-66D17.5	BTN3A1	0.903149836	0.013615706
NUP50-AS1	RASGRP1	0.960012523	0.002366528
PSMD5-AS1	RASGRP1	0.989609055	0.000161397
TOPORS-AS1	RASGRP1	0.963015874	0.002026444
AC087294.2	RASGRP1	0.984989655	0.000336275
AP001062.8	RASGRP1	0.970243262	0.001315021
RP11-455F5.3	RASGRP1	0.989215106	0.000173844
RP11-326C3.2	RASGRP1	0.999970646	1.29E-09
AP006621.8	RASGRP1	0.993755943	5.84E-05
JHDM1D-AS1	RASGRP1	0.989404188	0.000167812
RP11-20I23.6	RASGRP1	0.993652577	6.03E-05
RP11-160E2.19	RASGRP1	0.980552917	0.000563606
AC005786.7	RASGRP1	0.979427774	0.000630471
AC005944.2	RASGRP1	0.964278917	0.001891204
CTB-191K22.5	RASGRP1	0.950918314	0.003554399
RP11-20I23.8	RASGRP1	0.991073407	0.00011917
CDC37L1-AS1	RASGRP1	0.973245576	0.001064123
RP5-1142A6.10	RASGRP1	0.987944574	0.000217124
RP11-556I13.1	RASGRP1	0.989391924	0.0001682
CTA-315H11.2	RASGRP2	-0.967871254	0.001531802
RP11-126K1.8	RASGRP2	0.94338391	0.004717334
AC011558.5	BTN3A1	0.881059497	0.020378949
CCDC144NL-AS1	CAPN10	-0.865995765	0.025732536
RP3-438O4.4	RASGRP2	0.962906027	0.002038424
NUP50-AS1	RASGRP2	0.955782767	0.00288952
PSMD5-AS1	RASGRP2	0.989254536	0.000172577
TOPORS-AS1	RASGRP2	0.960125074	0.002353314
AC087294.2	RASGRP2	0.981210235	0.000526266
AP001062.8	RASGRP2	0.965650628	0.001749555
RP11-455F5.3	RASGRP2	0.985923472	0.000295828
RP11-326C3.2	RASGRP2	0.999837043	3.98E-08
AP006621.8	RASGRP2	0.993429681	6.46E-05
JHDM1D-AS1	RASGRP2	0.985837434	0.000299447
RP11-20I23.6	RASGRP2	0.991901059	9.81E-05
RP11-160E2.19	RASGRP2	0.984961745	0.000337523
AC005786.7	RASGRP2	0.976971238	0.000789379
AC005944.2	RASGRP2	0.964048313	0.001915551
CTB-191K22.5	RASGRP2	0.946294828	0.004248919
RP11-20I23.8	RASGRP2	0.987925497	0.00021781
CDC37L1-AS1	RASGRP2	0.968068905	0.001513114
RP5-1142A6.10	RASGRP2	0.987756513	0.000223937
RP11-556I13.1	RASGRP2	0.985821106	0.000300136
CTA-315H11.2	RASGRP3	-0.965147285	0.0018009
LL21NC02-21A1.1	CAPN10	0.815079068	0.048131871
RP11-126K1.8	RASGRP3	0.923963332	0.008452557
RP3-438O4.4	RASGRP3	0.92827023	0.007533209
AC011558.5	CAPN10	0.857467821	0.029025333
RP3-337H4.8	SQRDL	0.848575584	0.032657999
NUP50-AS1	RASGRP3	0.932732151	0.006635253
CTC-1337H24.3	SQRDL	0.87806965	0.021394145
PSMD5-AS1	RASGRP3	0.986486375	0.000272693
TOPORS-AS1	RASGRP3	0.930519258	0.007073649
AC087294.2	RASGRP3	0.95776204	0.002638391
AP001062.8	RASGRP3	0.941761343	0.004988847
RP11-455F5.3	RASGRP3	0.965895607	0.001724831
RP11-326C3.2	RASGRP3	0.990990726	0.000121385

AP006621.8	RASGRP3	0.989992581	0.000149722
JHDM1D-AS1	RASGRP3	0.962225802	0.002113385
AC024028.1	HLA-DOA	0.897781289	0.015138973
RP11-20I23.6	RASGRP3	0.974379828	0.000976181
RP11-34P13.14	HLA-DOA	0.874429899	0.02266179
RP11-93O14.2	HLA-DOA	0.909605123	0.011887532
RP11-160E2.19	RASGRP3	0.994200683	5.04E-05
RP11-473M20.11	HLA-DOA	0.851062179	0.031621807
RP11-78A19.3	HLA-DOA	0.907770298	0.012367209
AC005786.7	RASGRP3	0.954477125	0.003061329
CCDC144NL-AS1	RASGRP3	-0.908137183	0.012270561
AC005944.2	RASGRP3	0.961493974	0.002195524
RP11-66D17.5	RASGRP3	0.871725517	0.023626178
CTB-191K22.5	RASGRP3	0.923876016	0.008471727
RP11-20I23.8	RASGRP3	0.966458586	0.001668672
CDC37L1-AS1	RASGRP3	0.934616324	0.006272779
RP5-1142A6.10	RASGRP3	0.974216397	0.000988621
RP11-556I13.1	RASGRP3	0.962124071	0.002124711
AC011558.5	RASGRP3	0.918337482	0.009730856
AC024028.1	RASGRP4	0.998461268	3.55E-06
RP11-498J9.2	RASGRP4	0.96170335	0.002171867
RP11-34P13.14	RASGRP4	0.942494931	0.00486517
RP11-473M20.11	RASGRP4	0.990263099	0.000141749
RP11-78A19.3	RASGRP4	0.923233522	0.008613442
Z69720.3	RASGRP4	0.9303852	0.007100646
AC024028.1	RASSF2	0.989058192	0.00017893
RP11-498J9.2	RASSF2	0.920504048	0.009228218
RP11-473M20.11	RASSF2	0.999753191	9.14E-08
RP11-473M20.11	RASSF5	0.950629483	0.003596003
CTD-2541M15.3	RBBP4	0.93284988	0.006612313
AC011558.5	RBBP4	-0.968830087	0.001442203
CTA-315H11.2	RBM38	-0.94352214	0.004694548
RP11-66D17.5	RBM38	0.957742347	0.002640834
RP11-126K1.8	RBM38	0.981022451	0.000536804
CCDC144NL-AS1	EML4	-0.903598674	0.013491884
RP3-438O4.4	RBM38	0.992461404	8.50E-05
CTD-2139B15.2	EML4	-0.831534979	0.040180137
RP3-438O4.4	EML4	0.838120951	0.037186234
PSMD5-AS1	EML4	0.901320717	0.014125952
TOPORS-AS1	EML4	0.839014192	0.036788557
AC087294.2	EML4	0.867312266	0.025241
AP001062.8	EML4	0.827349067	0.042139298
RP11-455F5.3	EML4	0.879194401	0.021009471
NUP50-AS1	RBM38	0.988543522	0.000196125
AP006621.8	EML4	0.914519968	0.010647959
JHDM1D-AS1	EML4	0.885225264	0.019003882
RP11-20I23.6	EML4	0.898368152	0.014968669
PSMD5-AS1	RBM38	0.986294284	0.000280483
AC005786.7	EML4	0.860352622	0.027890426
AC005944.2	EML4	0.846065795	0.033719817
RP11-20I23.8	EML4	0.888142662	0.018068313
CDC37L1-AS1	EML4	0.855228719	0.029920975
RP5-1142A6.10	EML4	0.895570792	0.015788765
RP11-556I13.1	EML4	0.885385505	0.018951908
TOPORS-AS1	RBM38	0.977201207	0.000773752
AC087294.2	RBM38	0.99967518	1.58E-07
AP001062.8	RBM38	0.995294039	3.32E-05
RP11-126K1.8	RBMS1	0.86493842	0.026130574
RP3-438O4.4	RBMS1	0.905959035	0.012849719
NUP50-AS1	RBMS1	0.875861038	0.022159202
RP11-455F5.3	RBM38	0.999869532	2.55E-08
TOPORS-AS1	RBMS1	0.907384277	0.012469295
RP11-326C3.2	RBM38	0.986697938	0.00026424

AP001062.8	RBMS1	0.896854638	0.015409769
AP006621.8	RBM38	0.987018982	0.000251667
JHDM1D-AS1	RBM38	0.99920862	9.39E-07
RP11-20I23.6	RBM38	0.995973759	2.43E-05
RP11-160E2.19	RBM38	0.941084643	0.005104281
AC005786.7	RBM38	0.99174091	0.000102037
AC005944.2	RBM38	0.972561992	0.001118938
CTB-191K22.5	RBM38	0.983381276	0.000411978
AC005944.2	RBMS1	0.885253804	0.018994621
CTB-191K22.5	RBMS1	0.858257496	0.028712536
RP11-20I23.8	RBM38	0.999421834	5.01E-07
CDC37L1-AS1	RBMS1	0.914797488	0.01057994
CDC37L1-AS1	RBM38	0.993382805	6.55E-05
RP5-1142A6.10	RBM38	0.985465739	0.000315332
RP11-556I13.1	RBM38	0.999159896	1.06E-06
AC024028.1	RBM39	0.926445585	0.007916404
RP11-473M20.11	RBM39	0.933489971	0.00648827
CTA-315H11.2	RBM47	-0.933312408	0.006522565
RP11-326C3.2	RBM47	0.92732328	0.007730923
RP11-160E2.19	RBM47	0.974180632	0.000991354
AC011558.5	RBM47	0.977550616	0.000750305
CCDC144NL-AS1	RBMS1	-0.936470611	0.005925773
RP11-680G24.6	FAM129C	0.828226252	0.041725134
LA16c-359F1.1	FAM129C	0.879227329	0.02099826
CTA-315H11.2	RBMS1	-0.967595113	0.001558101
CCDC144NL-AS1	ROBO3	-0.890663469	0.017278185
PSMD5-AS1	RBMS1	0.940169504	0.005262445
RP3-438O4.4	ROBO3	0.831593376	0.040153114
NUP50-AS1	ROBO3	0.826030617	0.042765398
AC087294.2	RBMS1	0.927882982	0.007613761
TOPORS-AS1	ROBO3	0.851874369	0.031286777
AC087294.2	ROBO3	0.870814357	0.02395541
AP001062.8	ROBO3	0.839139423	0.036732964
RP11-455F5.3	ROBO3	0.883619388	0.019528515
RP11-455F5.3	RBMS1	0.936722628	0.005879357
RP11-326C3.2	RBMS1	0.974760965	0.000947475
JHDM1D-AS1	ROBO3	0.882675675	0.019840011
RP11-20I23.6	ROBO3	0.905924273	0.012859067
AP006621.8	RBMS1	0.952744716	0.003296831
AC005786.7	ROBO3	0.873803521	0.022883453
AC005944.2	ROBO3	0.880514089	0.020562381
RP11-20I23.8	ROBO3	0.888564324	0.017934966
CDC37L1-AS1	ROBO3	0.843165078	0.03496694
RP5-1142A6.10	ROBO3	0.914387861	0.010680413
RP11-556I13.1	ROBO3	0.882669549	0.019842041
JHDM1D-AS1	RBMS1	0.941440333	0.005043444
CCDC144NL-AS1	PLCL2	-0.887816387	0.01817182
RP11-20I23.6	RBMS1	0.947091736	0.004124874
RP11-160E2.19	RBMS1	0.974617279	0.000958247
AC005786.7	RBMS1	0.91765257	0.009892446
RP11-20I23.8	RBMS1	0.942368726	0.004886338
RP5-1142A6.10	RBMS1	0.940415352	0.005219723
RP11-556I13.1	RBMS1	0.941556192	0.005023705
AC011558.5	RBMS1	0.917509003	0.009926481
AC024028.1	RPMS	0.962987763	0.002029507
RP11-498J9.2	RPMS	0.999955707	2.94E-09
RP11-34P13.14	RPMS	0.979497918	0.000626194
RP11-93O14.2	RPMS	0.983902586	0.000386604
RP11-485G7.6	RPMS	0.965164404	0.001799141
RP11-78A19.3	RPMS	0.983505338	0.000405867
Z69720.3	RPMS	0.987515725	0.000232813
CTA-315H11.2	RCN3	-0.928842711	0.007414892
PSMD5-AS1	RCN3	0.948905776	0.003849236

RP11-326C3.2	RCN3	0.959413376	0.002437482
AP006621.8	RCN3	0.953425403	0.003203275
RP11-20I23.6	RCN3	0.932525887	0.006675537
RP11-160E2.19	RCN3	0.992697532	7.98E-05
AC005944.2	RCN3	0.923479442	0.008559065
RP5-1142A6.10	RCN3	0.943409208	0.00471316
AC011558.5	PLCL2	0.844175213	0.034530227
CCDC144NL-AS1	LFNG	-0.90032079	0.014408714
AC011558.5	RCN3	0.967020637	0.001613523
RP11-66D17.5	LFNG	0.89366083	0.016360786
CTA-315H11.2	RCOR3	-0.962365844	0.002097843
RP11-66D17.5	RCOR3	0.937802477	0.005682491
RP11-126K1.8	RCOR3	0.973950271	0.001009044
RP3-438O4.4	RCOR3	0.983568486	0.000402774
NUP50-AS1	RCOR3	0.97793227	0.000725104
PSMD5-AS1	RCOR3	0.990851868	0.00012515
TOPORS-AS1	RCOR3	0.967138011	0.001602121
AC087294.2	RCOR3	0.995785816	2.66E-05
AP001062.8	RCOR3	0.98781554	0.000221787
RP11-455F5.3	RCOR3	0.998333547	4.16E-06
RP11-326C3.2	RCOR3	0.993581549	6.17E-05
AP006621.8	RCOR3	0.993261437	6.80E-05
JHDM1D-AS1	RCOR3	0.997463069	9.65E-06
RP11-20I23.6	RCOR3	0.995020335	3.71E-05
RP11-160E2.19	RCOR3	0.955908572	0.002873223
AC005786.7	RCOR3	0.98477421	0.000345972
AC005944.2	RCOR3	0.969533261	0.001378193
CTB-191K22.5	RCOR3	0.972127052	0.001154525
RP11-20I23.8	RCOR3	0.998060835	5.64E-06
CDC37L1-AS1	RCOR3	0.986424606	0.000275186
AC011558.5	LFNG	0.900795475	0.014274144
RP5-1142A6.10	RCOR3	0.983524353	0.000404934
RP11-556I13.1	RCOR3	0.997409896	1.01E-05
CTD-2139B15.2	RDM1	0.962100445	0.002127345
RP11-77G23.2	RDX	0.917753729	0.009868498
CTD-2139B15.2	RECQL4	0.92622481	0.007963397
RP11-498J9.2	REEP2	0.95809509	0.002597239
RP11-34P13.14	REEP2	0.980133161	0.000588116
RP11-680G24.6	EPS8L2	0.82356819	0.043946275
LA16c-359F1.1	EPS8L2	0.880437845	0.020588086
RP11-93O14.2	REEP2	0.970231258	0.001316077
RP11-78A19.3	REEP2	0.953152977	0.003240559
RP11-680G24.6	REEP2	0.932547768	0.006671258
LA16c-359F1.1	BCS1L	-0.878905809	0.021107854
LLNLR-284B4.1	CECR1	0.897466709	0.015230644
RP11-77G23.2	CECR1	-0.896664088	0.015465739
AC011558.5	CECR1	0.844623398	0.03433729
LA16c-359F1.1	REEP2	0.91889663	0.009599896
Z69720.3	REEP2	0.982064502	0.000479638
RP11-160E2.19	RELB	0.918918956	0.009594685
AC011558.5	RELB	0.982029416	0.000481511
AC024028.1	RETN	0.936454121	0.005928817
RP11-498J9.2	RETN	0.929522568	0.007275569
RP11-473M20.11	RETN	0.924479716	0.008339612
LA16c-359F1.1	MLF1	0.854434356	0.030241814
RP11-66D17.5	REXO2	0.974967282	0.000932112
RP11-126K1.8	REXO2	0.965459065	0.001769009
RP3-438O4.4	REXO2	0.94944644	0.003768895
NUP50-AS1	REXO2	0.962665441	0.002064784
TOPORS-AS1	REXO2	0.925429972	0.008133703
AC087294.2	REXO2	0.938728639	0.005516258
AP001062.8	REXO2	0.959735557	0.002399199
RP11-455F5.3	REXO2	0.930712439	0.007034832

JHDM1D-AS1	REXO2	0.925954342	0.008021152
AC005786.7	REXO2	0.928403878	0.007505506
CTB-191K22.5	REXO2	0.962044648	0.002133574
RP11-20I23.8	REXO2	0.923329458	0.008592209
CDC37L1-AS1	REXO2	0.937082888	0.005813314
LL21NC02-21A1.1	REXO2	0.918638904	0.009660152
RP11-556I13.1	REXO2	0.925777082	0.008059114
CTD-2541M15.3	RFC3	0.975577992	0.000887369
CTD-2139B15.2	RFC4	0.938365106	0.005581219
AC011558.5	RFC5	-0.975655028	0.000881802
CTA-315H11.2	RFPL2	-0.948410869	0.003923507
RP11-66D17.5	RFPL2	0.947754528	0.00402308
RP11-126K1.8	RFPL2	0.972280967	0.001141868
RP3-438O4.4	RFPL2	0.991569985	0.000106298
NUP50-AS1	RFPL2	0.982957998	0.00043317
CCDC144NL-AS1	TMEM191A	-0.845287082	0.03405252
CTA-315H11.2	TMEM191A	-0.889334956	0.017692484
CTD-2541M15.3	TMEM191A	-0.813857243	0.048748847
PSMD5-AS1	TMEM191A	0.883976195	0.019411357
TOPORS-AS1	TMEM191A	0.812137568	0.049623392
AC087294.2	TMEM191A	0.822708072	0.044362284
RP11-455F5.3	TMEM191A	0.836418177	0.037949875
RP11-326C3.2	TMEM191A	0.90729636	0.012492601
AP006621.8	TMEM191A	0.892092378	0.016837841
JHDM1D-AS1	TMEM191A	0.834753566	0.038703435
RP11-20I23.6	TMEM191A	0.866072356	0.025703817
PSMD5-AS1	RFPL2	0.985197295	0.000327058
AC005786.7	TMEM191A	0.833881716	0.039100886
AC005944.2	TMEM191A	0.848528775	0.032677656
RP11-20I23.8	TMEM191A	0.842302629	0.035341846
RP5-1142A6.10	TMEM191A	0.8825866	0.019869535
RP11-556I13.1	TMEM191A	0.83474359	0.038707972
TOPORS-AS1	RFPL2	0.979610633	0.000619351
CCDC144NL-AS1	SORL1	-0.911017922	0.011524444
AC087294.2	RFPL2	0.998620614	2.85E-06
RP11-66D17.5	SORL1	0.850293327	0.031940512
RP11-126K1.8	SORL1	0.903885983	0.01341291
AP001062.8	RFPL2	0.990797042	0.000126652
NUP50-AS1	SORL1	0.917149263	0.010012013
RP11-455F5.3	RFPL2	0.999095374	1.23E-06
RP11-326C3.2	RFPL2	0.991120817	0.00011791
AP006621.8	RFPL2	0.987263818	0.000242283
JHDM1D-AS1	RFPL2	0.9997925	6.46E-08
RP11-20I23.6	RFPL2	0.997803031	7.23E-06
RP11-160E2.19	RFPL2	0.949686087	0.00373355
AC005786.7	RFPL2	0.991998068	9.58E-05
AC005944.2	RFPL2	0.967831921	0.001535534
CTB-191K22.5	RFPL2	0.975915519	0.000863108
RP11-20I23.8	RFPL2	0.9999189	9.87E-09
CDC37L1-AS1	RFPL2	0.993253837	6.81E-05
RP5-1142A6.10	RFPL2	0.988429445	0.000200042
CTB-191K22.5	SORL1	0.905597237	0.012947169
RP11-556I13.1	RFPL2	0.999782883	7.07E-08
AC024028.1	RFX3	0.99516767	3.50E-05
RP11-498J9.2	RFX3	0.981690834	0.00049977
RP11-34P13.14	RFX3	0.960794801	0.002275441
RP11-93O14.2	RFX3	0.940937136	0.005129615
RP11-473M20.11	RFX3	0.974154988	0.000993315
RP11-78A19.3	RFX3	0.949291486	0.003791835
Z69720.3	RFX3	0.956852516	0.002752394
AC024028.1	RFX8	0.964355341	0.001883169
RP11-498J9.2	RFX8	1	0
RP11-34P13.14	RFX8	0.978552256	0.000685076

RP11-93O14.2	RFX8	0.982998398	0.000431125
RP11-680G24.6	CACNB3	0.818241564	0.046551896
LA16c-359F1.1	CACNB3	0.869182994	0.024550292
RP11-485G7.6	RFX8	0.965304842	0.001784749
CCDC144NL-AS1	SLC39A13	-0.877172758	0.021703279
RP11-78A19.3	RFX8	0.983256999	0.000418145
RP11-66D17.5	SLC39A13	0.915109548	0.010503706
Z69720.3	RFX8	0.986539728	0.000270549
AC024028.1	RGS1	0.971356169	0.001218953
RP11-498J9.2	RGS1	0.999466218	4.27E-07
RP11-34P13.14	RGS1	0.98212739	0.000476291
RP11-93O14.2	RGS1	0.980247069	0.000581414
RP11-485G7.6	RGS1	0.95633704	0.00281806
RP11-473M20.11	RGS1	0.924371882	0.008363136
RP11-78A19.3	RGS1	0.980317412	0.000577294
Z69720.3	RGS1	0.986728523	0.000263029
CTA-315H11.2	RGS14	-0.967235143	0.001592717
RP11-126K1.8	RGS14	0.936538359	0.005913278
RP3-438O4.4	RGS14	0.963067634	0.002020812
NUP50-AS1	RGS14	0.952596552	0.003317371
PSMD5-AS1	RGS14	0.985922621	0.000295864
TOPORS-AS1	RGS14	0.960794331	0.002275495
AC087294.2	RGS14	0.979547619	0.000623172
AP001062.8	RGS14	0.962292806	0.002105942
RP11-455F5.3	RGS14	0.983713295	0.000395725
RP11-326C3.2	RGS14	0.999074383	1.28E-06
AP006621.8	RGS14	0.990272326	0.000141481
AC011558.5	SLC39A13	0.89065208	0.017281717
CCDC144NL-AS1	RNF14	-0.874357475	0.022687367
JHDM1D-AS1	RGS14	0.984916679	0.000339544
RP11-20I23.6	RGS14	0.991605798	0.000105398
RP11-160E2.19	RGS14	0.986144848	0.000286618
AC005786.7	RGS14	0.977057586	0.000783494
AC005944.2	RGS14	0.961552284	0.002188923
CTB-191K22.5	RGS14	0.943182633	0.00475061
RP11-20I23.8	RGS14	0.986907232	0.000256009
CDC37L1-AS1	RGS14	0.969264108	0.001402525
RP5-1142A6.10	RGS14	0.988185654	0.000208544
RP11-556I13.1	RGS14	0.984935396	0.000338704
MIR210HG	RGS16	0.962177	0.002118815
RP11-91K8.5	RGS16	0.940145016	0.00526671
RP11-473M20.11	RGS2	0.952708343	0.003301867
CTA-315H11.2	RHBDD1	-0.927532576	0.007687009
RP11-126K1.8	RHBDD1	0.968606569	0.001462851
RP3-438O4.4	RHBDD1	0.957740026	0.002641122
NUP50-AS1	RHBDD1	0.945217672	0.004419451
PSMD5-AS1	RHBDD1	0.936137041	0.005987485
RMRP	RNF14	0.825449301	0.043042819
AC087294.2	RHBDD1	0.961818301	0.002158932
AP001062.8	RHBDD1	0.963174486	0.002009208
LL21NC02-21A1.1	RNF14	0.828235668	0.041720698
RP11-455F5.3	RHBDD1	0.963407156	0.001984055
RP11-326C3.2	RHBDD1	0.931121597	0.006952964
CCDC144NL-AS1	MCOLN1	-0.851150681	0.031585218
AP006621.8	RHBDD1	0.939485684	0.005382173
JHDM1D-AS1	RHBDD1	0.962029749	0.002135238
RP11-20I23.6	RHBDD1	0.938626077	0.005534547
AC005786.7	RHBDD1	0.927434509	0.00770757
CTB-191K22.5	RHBDD1	0.944711264	0.004500762
RMRP	RHBDD1	0.921003201	0.009114252
RP11-20I23.8	RHBDD1	0.958780216	0.002513588
CDC37L1-AS1	RHBDD1	0.958081898	0.002598863
RP11-556I13.1	RHBDD1	0.961926829	0.002146755

RP11-498J9.2	RHBDF1	0.950254357	0.003650392
RP11-93O14.2	RHBDF1	0.920697012	0.009184079
RP11-485G7.6	RHBDF1	0.96543378	0.001771585
RP11-78A19.3	RHBDF1	0.92256024	0.008763175
Z69720.3	RHBDF1	0.957543345	0.002665586
RP3-337H4.8	RHCE	0.937894811	0.00566581
RP11-66D17.5	RHD	0.97289473	0.001092086
RP11-126K1.8	RHD	0.997359205	1.05E-05
RP3-438O4.4	RHD	0.981734115	0.000497417
NUP50-AS1	RHD	0.991556299	0.000106643
PSMD5-AS1	RHD	0.971987266	0.001166079
LL21NC02-21A1.1	MCOLN1	0.841567588	0.035662851
TOPORS-AS1	RHD	0.957500776	0.002670895
AC087294.2	RHD	0.98897438	0.000181676
CCDC144NL-AS1	DCUN1D1	-0.876207521	0.022038333
AP001062.8	RHD	0.99618521	2.18E-05
RP11-455F5.3	RHD	0.988425047	0.000200194
RP11-326C3.2	RHD	0.956968331	0.002737745
AP006621.8	RHD	0.969567215	0.001375139
JHDM1D-AS1	RHD	0.983267309	0.000417632
RP11-20I23.6	RHD	0.974063589	0.001000322
AC005786.7	RHD	0.974662086	0.000954881
AC005944.2	RHD	0.964983202	0.001817796
CTB-191K22.5	RHD	0.990049391	0.000148029
RP11-20I23.8	RHD	0.983125403	0.000424725
CDC37L1-AS1	RHD	0.978080466	0.000715433
RP5-1142A6.10	RHD	0.958686289	0.002524977
RP11-556I13.1	RHD	0.983088595	0.000426575
RP4-784A16.3	RHOBTB3	0.934927402	0.006213891
RP11-160E2.19	DCUN1D1	0.906761523	0.01263484
RP11-498J9.2	RHOC	0.987337514	0.000239493
RP11-34P13.14	RHOC	0.964849141	0.001831658
RP11-93O14.2	RHOC	0.980989794	0.000538647
RMRP	DCUN1D1	0.859436031	0.028248696
RP11-485G7.6	RHOC	0.97587167	0.000866241
RP11-78A19.3	RHOC	0.973764105	0.001023454
LA16c-359F1.1	RHOC	0.919872037	0.009373505
Z69720.3	RHOC	0.990032651	0.000148527
CCDC144NL-AS1	B4GALT7	-0.861322644	0.027513633
AC024028.1	RHOH	0.969038129	0.001423116
RP11-473M20.11	RHOH	0.994524833	4.49E-05
CTA-315H11.2	RHPN1	-0.954766897	0.003022776
RP11-66D17.5	RHPN1	0.940122708	0.005270596
RP11-126K1.8	RHPN1	0.96964015	0.001368589
RP3-438O4.4	RHPN1	0.986367524	0.0002775
NUP50-AS1	RHPN1	0.97951103	0.000625396
PSMD5-AS1	RHPN1	0.989156751	0.000175727
TOPORS-AS1	RHPN1	0.976242882	0.000839897
AC087294.2	RHPN1	0.99675648	1.58E-05
AP001062.8	RHPN1	0.98778572	0.000222872
RP11-455F5.3	RHPN1	0.998407232	3.80E-06
RP11-326C3.2	RHPN1	0.994995059	3.75E-05
AP006621.8	RHPN1	0.991561153	0.000106521
JHDM1D-AS1	RHPN1	0.998425026	3.72E-06
RP11-20I23.6	RHPN1	0.998181883	4.96E-06
RP11-160E2.19	RHPN1	0.959232549	0.0024591
AC005786.7	RHPN1	0.990155053	0.000144907
AC005944.2	RHPN1	0.969992395	0.001337174
CTB-191K22.5	RHPN1	0.972021133	0.001163274
LL21NC02-21A1.1	B4GALT7	0.81961805	0.045871869
RP11-20I23.8	RHPN1	0.99908395	1.26E-06
CDC37L1-AS1	RHPN1	0.988576446	0.000195001
AC011558.5	B4GALT7	0.811639829	0.049877864

RP5-1142A6.10	RHPN1	0.989819222	0.000154945
RP11-556I13.1	RHPN1	0.998400357	3.84E-06
RP11-66D17.5	SERTAD2	0.857789078	0.028897886
CTA-315H11.2	RMND5A	-0.937609172	0.005717491
RP11-66D17.5	RMND5A	0.946825466	0.00416612
RP11-126K1.8	RMND5A	0.976338102	0.000833204
RP3-438O4.4	RMND5A	0.992052174	9.45E-05
NUP50-AS1	RMND5A	0.979793564	0.000608325
PSMD5-AS1	RMND5A	0.971803111	0.001181388
TOPORS-AS1	RMND5A	0.973640586	0.001033071
AC087294.2	RMND5A	0.995448263	3.10E-05
AP001062.8	RMND5A	0.990234332	0.000142587
RP11-455F5.3	RMND5A	0.995261043	3.36E-05
RP11-326C3.2	RMND5A	0.978313775	0.000700339
AP006621.8	RMND5A	0.974863299	0.000939839
JHDM1D-AS1	RMND5A	0.99617745	2.19E-05
RP11-20I23.6	RMND5A	0.987602885	0.00022958
RP11-160E2.19	RMND5A	0.921206669	0.009067994
CTB-191K22.5	SERTAD2	0.912353648	0.01118618
AC005786.7	RMND5A	0.982440312	0.000459807
AC005944.2	RMND5A	0.948972952	0.003839208
CTB-191K22.5	RMND5A	0.972043451	0.001161428
RP11-20I23.8	RMND5A	0.994769237	4.10E-05
AC011558.5	SERTAD2	0.894613556	0.016074227
CDC37L1-AS1	RMND5A	0.991393686	0.000110784
RP5-1142A6.10	RMND5A	0.972558451	0.001119226
RP11-556I13.1	RMND5A	0.996163974	2.20E-05
RMRP	RMRP	0.998326954	4.20E-06
CTA-315H11.2	RN7SK	-0.943529151	0.004693394
RP11-66D17.5	RN7SK	0.953440192	0.003201257
RP11-126K1.8	RN7SK	0.976554756	0.000818075
LA16c-359F1.1	WDFY4	0.837235815	0.037582281
RP3-438O4.4	RN7SK	0.994171192	5.09E-05
NUP50-AS1	RN7SK	0.985404427	0.000317991
CTD-2531D15.5	AKAP9	-0.90381955	0.013431151
RP11-770G2.2	AKAP9	-0.822984727	0.044228276
CTA-315H11.2	AKAP9	-0.907186402	0.012521781
CTD-2139B15.2	AKAP9	-0.847628675	0.033056727
RP11-326C3.2	AKAP9	0.849824107	0.032135755
AP006621.8	AKAP9	0.830652534	0.040589525
RP11-160E2.19	AKAP9	0.890904534	0.017203514
AC011558.5	AKAP9	0.894470753	0.016117024
PSMD5-AS1	RN7SK	0.981972829	0.000484539
TOPORS-AS1	RN7SK	0.979161403	0.000646846
AC087294.2	RN7SK	0.999327898	6.77E-07
AP001062.8	RN7SK	0.993280116	6.76E-05
RP11-455F5.3	RN7SK	0.999164888	1.05E-06
RP11-326C3.2	RN7SK	0.98648751	0.000272647
AP006621.8	RN7SK	0.983707417	0.00039601
JHDM1D-AS1	RN7SK	0.999828409	4.42E-08
RP11-20I23.6	RN7SK	0.99563508	2.85E-05
RP11-160E2.19	RN7SK	0.939088278	0.005452358
AC005786.7	RN7SK	0.991145536	0.000117255
AC005944.2	RN7SK	0.965364314	0.001778671
CTB-191K22.5	RN7SK	0.979052327	0.000653612
RP11-20I23.8	RN7SK	0.999506446	3.65E-07
CDC37L1-AS1	RN7SK	0.995166053	3.50E-05
RP5-1142A6.10	RN7SK	0.984477496	0.000359552
RP11-556I13.1	RN7SK	0.999814035	5.19E-08
RP11-770G2.2	RNASE1	0.919151484	0.009540491
PSMD5-AS1	RNASE2	0.936345775	0.005948831
RP11-326C3.2	RNASE2	0.953555492	0.003185546
AP006621.8	RNASE2	0.94035925	0.005229457

RP11-20I23.6	RNASE2	0.934308268	0.006331362
CCDC144NL-AS1	POLM	-0.892453741	0.016727346
RP11-160E2.19	RNASE2	0.986018166	0.000291871
CTD-2139B15.2	POLM	-0.867083225	0.025326192
PSMD5-AS1	POLM	0.873911696	0.022845098
AC087294.2	POLM	0.834960015	0.038609599
RP11-455F5.3	POLM	0.848077763	0.032867339
RP11-326C3.2	POLM	0.913470059	0.010907203
AP006621.8	POLM	0.888226679	0.018041706
JHDM1D-AS1	POLM	0.855160877	0.029948313
RP11-20I23.6	POLM	0.867911713	0.02501868
AC005786.7	RNASE2	0.918331049	0.009732368
AC005786.7	POLM	0.825385373	0.043073378
AC005944.2	POLM	0.814463424	0.048442293
RP11-20I23.8	POLM	0.858107385	0.028771873
CDC37L1-AS1	POLM	0.824662082	0.043419838
RP5-1142A6.10	POLM	0.863259561	0.026768539
RP11-556I13.1	POLM	0.855347468	0.029873152
AC005944.2	RNASE2	0.918232352	0.009755575
AC024028.1	BTN2A2	0.885892122	0.018788035
RP11-473M20.11	BTN2A2	0.916664956	0.010127725
CTD-2139B15.2	BTN2A2	-0.907608947	0.01240983
RP11-91K8.5	BTN2A2	-0.856576552	0.029380298
AC011558.5	BTN2A2	0.820818077	0.04528282
CCDC144NL-AS1	DPCD	-0.833960168	0.039065044
CTA-315H11.2	DPCD	-0.916899611	0.01007158
RP5-1142A6.10	RNASE2	0.952214161	0.00337067
AC011558.5	RNASE2	0.970211536	0.001317812
PSMD5-AS1	RNASET2	0.929032457	0.007375878
RP11-326C3.2	RNASET2	0.946714964	0.004183297
AP006621.8	RNASET2	0.934902554	0.006218585
RP11-160E2.19	RNASET2	0.988402148	0.000200985
RP5-1142A6.10	RNASET2	0.931135454	0.0069502
AC011558.5	RNASET2	0.981281716	0.000522282
AC024028.1	RND1	0.951462106	0.003476715
RP11-498J9.2	RND1	0.998781849	2.22E-06
RP11-34P13.14	RND1	0.971433006	0.001212453
RP11-93O14.2	RND1	0.984740832	0.000347487
RP11-485G7.6	RND1	0.976632014	0.000812714
RP11-160E2.19	DPCD	0.912962589	0.01103359
RP11-78A19.3	RND1	0.984953315	0.000337901
Z69720.3	RND1	0.985204145	0.000326756
CTA-315H11.2	RNF10	-0.945120507	0.004434996
RMRP	DPCD	0.811972272	0.049707833
RP11-66D17.5	RNF10	0.95281152	0.00328759
RP11-126K1.8	RNF10	0.97551741	0.000891758
LL21NC02-21A1.1	DPCD	0.874523781	0.022628656
RP3-438O4.4	RNF10	0.993607557	6.12E-05
NUP50-AS1	RNF10	0.985233182	0.000325478
CCDC144NL-AS1	CMTM2	-0.888468066	0.017965365
PSMD5-AS1	RNF10	0.983474053	0.000407404
TOPORS-AS1	RNF10	0.979340743	0.000635799
AC087294.2	RNF10	0.999323358	6.87E-07
AP001062.8	RNF10	0.992846083	7.66E-05
RP11-455F5.3	RNF10	0.999293154	7.49E-07
RP11-326C3.2	RNF10	0.987964194	0.000216419
AP006621.8	RNF10	0.985114056	0.000330738
JHDM1D-AS1	RNF10	0.999938549	5.66E-09
RP11-20I23.6	RNF10	0.996603398	1.73E-05
RP11-160E2.19	RNF10	0.942792918	0.004815366
AC005786.7	RNF10	0.991892162	9.83E-05
AC005944.2	RNF10	0.967426979	0.001574223
CTB-191K22.5	RNF10	0.978989991	0.000657494

RP11-20I23.8	RNF10	0.999821635	4.77E-08
CDC37L1-AS1	RNF10	0.994977232	3.78E-05
RP5-1142A6.10	RNF10	0.986140913	0.00028678
RP11-556I13.1	RNF10	0.999924934	8.45E-09
CTA-315H11.2	RNF11	-0.95105959	0.003534136
RP11-66D17.5	RNF11	0.94503628	0.004448493
RP11-126K1.8	RNF11	0.970983666	0.001250706
RP3-438O4.4	RNF11	0.99125216	0.000114452
NUP50-AS1	RNF11	0.981099921	0.000532444
AC011558.5	CMTM2	0.854659433	0.030150742
CCDC144NL-AS1	PLCG1	-0.868904577	0.024652511
PSMD5-AS1	RNF11	0.984448681	0.000360885
TOPORS-AS1	RNF11	0.978080208	0.00071545
AC087294.2	RNF11	0.998159101	5.08E-06
AP001062.8	RNF11	0.989701067	0.000158556
RP11-455F5.3	RNF11	0.998772795	2.26E-06
RP11-326C3.2	RNF11	0.991266896	0.000114068
AP006621.8	RNF11	0.98689015	0.000256676
JHDM1D-AS1	RNF11	0.999790458	6.59E-08
RP11-20I23.6	RNF11	0.997221711	1.16E-05
RP11-160E2.19	RNF11	0.94961656	0.003743788
AC005786.7	RNF11	0.990639094	0.00013103
AC005944.2	RNF11	0.965605092	0.00175417
CTB-191K22.5	RNF11	0.97406172	0.001000466
RP11-20I23.8	RNF11	0.999771088	7.86E-08
CDC37L1-AS1	RNF11	0.9933167	6.69E-05
RP5-1142A6.10	RNF11	0.987080478	0.000249293
RP11-556I13.1	RNF11	0.999788292	6.72E-08
RP11-66D17.5	RNF123	0.986365221	0.000277593
RP11-126K1.8	RNF123	0.993297176	6.72E-05
RP3-438O4.4	RNF123	0.9884955	0.000197769
NUP50-AS1	RNF123	0.998924184	1.74E-06
PSMD5-AS1	RNF123	0.974296329	0.000982527
TOPORS-AS1	RNF123	0.970728293	0.001272709
AC087294.2	RNF123	0.992598697	8.20E-05
AP001062.8	RNF123	0.999126297	1.14E-06
RP11-455F5.3	RNF123	0.990138396	0.000145397
RP11-326C3.2	RNF123	0.959831081	0.002387906
AP006621.8	RNF123	0.970116399	0.001326201
JHDM1D-AS1	RNF123	0.986239095	0.000282741
RP11-680G24.6	C6orf25	0.81936919	0.04599447
LA16c-359F1.1	C6orf25	0.868698623	0.024728256
RP11-20I23.6	RNF123	0.981667647	0.000501032
AC005786.7	RNF123	0.986947201	0.000254451
AC005944.2	RNF123	0.977584358	0.00074806
CTB-191K22.5	RNF123	0.998197392	4.87E-06
RP11-93O14.2	HLX	0.916208992	0.010237254
RP11-20I23.8	RNF123	0.986753442	0.000262045
CDC37L1-AS1	RNF123	0.985772301	0.000302201
RP5-1142A6.10	RNF123	0.971853886	0.001177157
RP11-556I13.1	RNF123	0.986100779	0.00028844
CCDC144NL-AS1	APBB1	-0.903601637	0.013491069
CTA-315H11.2	RNF14	-0.946353979	0.00423965
RP11-66D17.5	APBB1	0.89510848	0.015926326
RP11-66D17.5	RNF14	0.952483684	0.003333059
RP11-126K1.8	RNF14	0.980911081	0.000543102
RP3-438O4.4	RNF14	0.992349902	8.76E-05
NUP50-AS1	RNF14	0.984070668	0.000378594
PSMD5-AS1	RNF14	0.9805745	0.00056236
TOPORS-AS1	RNF14	0.971319972	0.001222021
AC087294.2	RNF14	0.998041297	5.75E-06
AP001062.8	RNF14	0.993462658	6.40E-05
RP11-455F5.3	RNF14	0.998335198	4.16E-06

RP11-326C3.2	RNF14	0.982554439	0.000453867
AP006621.8	RNF14	0.982372032	0.000463379
JHDM1D-AS1	RNF14	0.998335447	4.15E-06
RP11-20I23.6	RNF14	0.991238085	0.00011482
RP11-160E2.19	RNF14	0.930512027	0.007075103
AC005786.7	RNF14	0.985469589	0.000315165
AC005944.2	RNF14	0.961815775	0.002159216
CTB-191K22.5	RNF14	0.978981393	0.00065803
RP11-20I23.8	RNF14	0.997684204	8.04E-06
CDC37L1-AS1	RNF14	0.993339573	6.64E-05
RP5-1142A6.10	RNF14	0.976700448	0.000807979
AC011558.5	APBB1	0.897890186	0.015107302
CCDC144NL-AS1	SMPD1	-0.830928405	0.040461333
CTA-315H11.2	SMPD1	-0.914609472	0.010625999
RP11-556I13.1	RNF14	0.998297862	4.34E-06
CTA-315H11.2	RNF149	-0.932042973	0.006770318
RP11-326C3.2	RNF149	0.928613998	0.007462052
RP11-160E2.19	RNF149	0.973645935	0.001032653
AC011558.5	RNF149	0.97892532	0.000661533
CTA-315H11.2	RNF175	-0.947610867	0.004045038
RP11-66D17.5	RNF175	0.947950326	0.003993247
RP11-126K1.8	RNF175	0.971799142	0.001181719
RP3-438O4.4	RNF175	0.992769165	7.82E-05
NUP50-AS1	RNF175	0.982489561	0.000457239
PSMD5-AS1	RNF175	0.983034286	0.000429311
TOPORS-AS1	RNF175	0.979706188	0.000613579
AC087294.2	RNF175	0.998622493	2.84E-06
AP001062.8	RNF175	0.99068842	0.000129655
RP11-455F5.3	RNF175	0.998803216	2.15E-06
RP11-326C3.2	RNF175	0.989772465	0.000156369
AP006621.8	RNF175	0.985282553	0.000323311
JHDM1D-AS1	RNF175	0.999957442	2.72E-09
RP11-20I23.6	RNF175	0.997077502	1.28E-05
LL21NC02-21A1.1	SMPD1	0.839222903	0.036695927
RP11-160E2.19	RNF175	0.946405247	0.004231624
AC005786.7	RNF175	0.991497995	0.000108119
AC011558.5	SMPD1	0.842777285	0.035135281
AC024028.1	SH3BP5	0.840975318	0.035922499
RP11-473M20.11	SH3BP5	0.914154782	0.010737788
RP11-160E2.19	SH3BP5	0.818484321	0.046431629
AC005944.2	RNF175	0.965168316	0.00179874
CCDC144NL-AS1	MNDA	-0.880743538	0.020485117
CTB-191K22.5	RNF175	0.975462268	0.000895763
RP11-20I23.8	RNF175	0.999808977	5.47E-08
CDC37L1-AS1	RNF175	0.994476385	4.57E-05
RP5-1142A6.10	RNF175	0.986962571	0.000253854
RP11-556I13.1	RNF175	0.999958498	2.58E-09
RP11-66D17.5	RNF185	-0.982187645	0.000473094
RP11-126K1.8	RNF185	-0.95107754	0.003531565
RP3-438O4.4	RNF185	-0.93579031	0.006051962
NUP50-AS1	RNF185	-0.954288859	0.003086506
AC087294.2	RNF185	-0.920281015	0.009279363
AP001062.8	RNF185	-0.945762683	0.004332755
CTB-191K22.5	RNF185	-0.958982168	0.002489188
CDC37L1-AS1	RNF185	-0.924328854	0.008372532
LL21NC02-21A1.1	RNF185	-0.958177209	0.002587142
CCDC144NL-AS1	RNF19A	-0.920940299	0.009128576
CTA-315H11.2	RNF19A	-0.953579755	0.003182245
RP11-126K1.8	RNF19A	0.953309293	0.00321914
RP3-438O4.4	RNF19A	0.969095274	0.001417895
NUP50-AS1	RNF19A	0.954207729	0.003097387
PSMD5-AS1	RNF19A	0.970845178	0.001262615
TOPORS-AS1	RNF19A	0.958879646	0.00250156

AC087294.2	RNF19A	0.98134531	0.00051875
AC011558.5	MNDA	0.851419623	0.031474153
AP001062.8	RNF19A	0.969099463	0.001417512
RP11-455F5.3	RNF19A	0.9851126	0.000330802
RP11-326C3.2	RNF19A	0.98553616	0.000312291
AP006621.8	RNF19A	0.977625981	0.000745295
JHDM1D-AS1	RNF19A	0.985698739	0.000305327
RP11-20I23.6	RNF19A	0.980962787	0.000540174
RP11-160E2.19	RNF19A	0.943893796	0.004633551
LA16c-359F1.1	FGF11	0.856753533	0.029309649
AC005786.7	RNF19A	0.966701237	0.00164475
AC005944.2	RNF19A	0.933284187	0.006528023
CTB-191K22.5	RNF19A	0.941359182	0.005057293
RP11-20I23.8	RNF19A	0.985024242	0.000334731
CDC37L1-AS1	RNF19A	0.96942212	0.001388215
RP5-1142A6.10	RNF19A	0.967878914	0.001531076
RP11-556I13.1	RNF19A	0.985685864	0.000305875
AC024028.1	RNF212	0.951070801	0.00353253
RP11-498J9.2	RNF212	0.997621915	8.48E-06
RP11-34P13.14	RNF212	0.968936448	0.001432429
RP11-93O14.2	RNF212	0.977771772	0.00073565
RP11-485G7.6	RNF212	0.972670331	0.00111016
RP11-78A19.3	RNF212	0.975532835	0.00089064
Z69720.3	RNF212	0.988294173	0.000204738
CCDC144NL-AS1	LPIN2	-0.89316355	0.016511324
RP5-1033H22.2	RNF217	0.994960607	3.80E-05
RP11-21J18.1	RNF217	0.947666338	0.004036552
RP11-298J23.8	RNF217	0.989407497	0.000167707
RP11-165D6.1	RNF217	0.992919409	7.50E-05
CCDC144NL-AS1	RNF44	-0.91943356	0.009474951
CTA-315H11.2	RNF44	-0.971096474	0.001241048
PSMD5-AS1	RNF44	0.961936278	0.002145696
AC087294.2	RNF44	0.936583254	0.005905005
RP11-455F5.3	RNF44	0.945671435	0.004347212
RP11-326C3.2	RNF44	0.983948089	0.000384428
AP006621.8	RNF44	0.970364072	0.001304418
JHDM1D-AS1	RNF44	0.94698671	0.004141119
RP11-20I23.6	RNF44	0.958657469	0.002528476
RP11-160E2.19	RNF44	0.994596504	4.37E-05
AC005786.7	RNF44	0.932063168	0.006766342
AC005944.2	RNF44	0.921766745	0.008941252
RP11-20I23.8	RNF44	0.950098291	0.003673139
CDC37L1-AS1	RNF44	0.919101573	0.009552111
RMRP	LPIN2	0.851074344	0.031616777
RP5-1142A6.10	RNF44	0.957234982	0.002704165
RP11-556I13.1	RNF44	0.947018898	0.004136137
AC011558.5	RNF44	0.940833978	0.005147368
CTD-2531D15.5	RNH1	0.926767565	0.007848112
CTA-315H11.2	RNU11	-0.957186971	0.002710196
CTB-31O20.6	CPEB4	-0.812991791	0.049188073
CTA-315H11.2	CPEB4	-0.89923848	0.014717816
RP11-66D17.5	CPEB4	0.834116506	0.038993664
RP11-126K1.8	CPEB4	0.913069651	0.011006867
RP3-438O4.4	CPEB4	0.909214547	0.011988871
NUP50-AS1	CPEB4	0.883040111	0.01971944
PSMD5-AS1	CPEB4	0.885091107	0.019047449
TOPORS-AS1	CPEB4	0.867646919	0.02511677
AC087294.2	CPEB4	0.915208684	0.010479545
AP001062.8	CPEB4	0.909370492	0.01194836
RP11-126K1.8	RNU11	0.918022284	0.00980506
RP11-326C3.2	CPEB4	0.897856055	0.015117225
AP006621.8	CPEB4	0.895362993	0.015850525
RP3-438O4.4	RNU11	0.963752074	0.001947055

RP11-20I23.6	CPEB4	0.893438005	0.016428158
RP11-160E2.19	CPEB4	0.816681441	0.047328267
AC005786.7	CPEB4	0.874167131	0.022754653
AC005944.2	CPEB4	0.826520666	0.042532182
CTB-191K22.5	CPEB4	0.8723321	0.023408204
NUP50-AS1	RNU11	0.94327639	0.004735096
RP11-20I23.8	CPEB4	0.915071465	0.010512995
CDC37L1-AS1	CPEB4	0.906537005	0.012694782
RP5-1142A6.10	CPEB4	0.858622402	0.028568537
PSMD5-AS1	RNU11	0.96939938	0.00139027
TOPORS-AS1	RNU11	0.958391127	0.002560929
AC087294.2	RNU11	0.97227938	0.001141998
RP11-34P13.14	COLQ	0.901437749	0.014093034
RP11-93O14.2	COLQ	0.870460497	0.024083857
RP11-485G7.6	COLQ	0.856929741	0.029239389
AP001062.8	RNU11	0.952180864	0.003375331
RP11-78A19.3	COLQ	0.88678578	0.01850063
Z69720.3	COLQ	0.895667577	0.015760039
CCDC144NL-AS1	TNFRSF25	-0.877528635	0.021580364
RP11-455F5.3	RNU11	0.973916476	0.001011652
RP11-326C3.2	RNU11	0.987799798	0.000222359
AP006621.8	RNU11	0.973546079	0.001040459
JHDM1D-AS1	RNU11	0.979005015	0.000656557
RP11-20I23.6	RNU11	0.985059609	0.000333155
RP11-160E2.19	RNU11	0.974318289	0.000980856
AC005786.7	RNU11	0.973434409	0.001049222
AC005944.2	RNU11	0.949805008	0.003716072
CTB-191K22.5	RNU11	0.935695499	0.006069652
RP11-20I23.8	RNU11	0.980248123	0.000581352
CDC37L1-AS1	RNU11	0.972710402	0.001106922
RP5-1142A6.10	RNU11	0.981699748	0.000499284
RP11-556I13.1	RNU11	0.979124378	0.000649139
CTA-315H11.2	RNU12	-0.922477598	0.00878164
RP11-66D17.5	RNU12	0.975852417	0.000867618
RP11-126K1.8	RNU12	0.993892456	5.58E-05
RP3-438O4.4	RNU12	0.976548869	0.000818485
NUP50-AS1	RNU12	0.992820034	7.71E-05
PSMD5-AS1	RNU12	0.984658675	0.000351229
TOPORS-AS1	RNU12	0.951839261	0.003423332
AC087294.2	RNU12	0.98810744	0.000211308
AP001062.8	RNU12	0.994384765	4.72E-05
AC011558.5	TNFRSF25	0.835799219	0.038229263
CCDC144NL-AS1	C9orf133	-0.833669375	0.039197974
RP11-455F5.3	RNU12	0.988314443	0.000204031
RP11-326C3.2	RNU12	0.963519757	0.001971938
AP006621.8	RNU12	0.97986045	0.000604318
JHDM1D-AS1	RNU12	0.982226143	0.000471058
RP11-20I23.6	RNU12	0.978767634	0.000671434
AC005786.7	RNU12	0.978475034	0.00069
AC005944.2	RNU12	0.987160594	0.000246217
CTB-191K22.5	RNU12	0.995782724	2.66E-05
RP11-20I23.8	RNU12	0.983933994	0.000385101
CDC37L1-AS1	RNU12	0.976943154	0.000791299
RP5-1142A6.10	RNU12	0.967342776	0.001582327
RP11-556I13.1	RNU12	0.982028301	0.000481571
RMRP	RNU4-1	0.964391816	0.00187934
RP11-126K1.8	RNU4-2	0.920539601	0.009220078
RP3-438O4.4	RNU4-2	0.957337986	0.002691248
TOPORS-AS1	RNU4-2	0.924046536	0.008434308
AC087294.2	RNU4-2	0.947543431	0.004055365
AP001062.8	RNU4-2	0.937118834	0.005806744
RP11-455F5.3	RNU4-2	0.945851675	0.004318679
RP11-326C3.2	RNU4-2	0.921179503	0.009074163

LL21NC02-21A1.1	C9orf133	0.846581026	0.033500532
JHDM1D-AS1	RNU4-2	0.953352212	0.003213271
RP11-20I23.6	RNU4-2	0.929745781	0.007230108
CCDC144NL-AS1	HK3	-0.84540675	0.034001292
AC005786.7	RNU4-2	0.920798279	0.009160956
RP11-66D17.5	HK3	0.878099614	0.021383854
RP11-126K1.8	HK3	0.903677157	0.013470289
RP11-20I23.8	RNU4-2	0.947348284	0.004085324
CDC37L1-AS1	RNU4-2	0.956276026	0.002825883
RP11-556I13.1	RNU4-2	0.953492775	0.003194087
CTA-315H11.2	RNU5A	-0.924021194	0.008439864
AC024028.1	RNU5D	0.964355341	0.001883169
RP11-498J9.2	RNU5D	1	0
RP11-34P13.14	RNU5D	0.978552256	0.000685076
RP11-93O14.2	RNU5D	0.982998398	0.000431125
RP11-485G7.6	RNU5D	0.965304842	0.001784749
RP11-78A19.3	RNU5D	0.983256999	0.000418145
Z69720.3	RNU5D	0.986539728	0.000270549
CTA-315H11.2	RNU6ATAC	-0.945741186	0.004336159
RP11-66D17.5	RNU6ATAC	0.950244931	0.003651764
RP11-126K1.8	RNU6ATAC	0.97284269	0.001096265
RP3-438O4.4	RNU6ATAC	0.993698542	5.94E-05
NUP50-AS1	RNU6ATAC	0.983525845	0.000404861
PSMD5-AS1	RNU6ATAC	0.982245427	0.000470039
TOPORS-AS1	RNU6ATAC	0.980052526	0.000592884
AC087294.2	RNU6ATAC	0.998911004	1.78E-06
AP001062.8	RNU6ATAC	0.991493281	0.000108239
RP11-34P13.14	FBXO18	-0.826428909	0.042575804
RP3-337H4.8	FBXO18	0.899199289	0.014729068
RP3-337H4.8	HMBS	0.903124026	0.013622843
RP11-767C1.1	HMBS	0.88675763	0.018509651
CTC-1337H24.3	HMBS	0.877128915	0.021718444
CCDC144NL-AS1	STK38	-0.9142651	0.010710614
RP11-455F5.3	RNU6ATAC	0.998826662	2.06E-06
RP11-66D17.5	STK38	0.892644134	0.01666927
RP11-326C3.2	RNU6ATAC	0.988496209	0.000197745
AP006621.8	RNU6ATAC	0.984286293	0.000368441
JHDM1D-AS1	RNU6ATAC	0.999999212	9.32E-13
RP11-20I23.6	RNU6ATAC	0.996735909	1.60E-05
RP11-160E2.19	RNU6ATAC	0.943792601	0.00465012
AC005786.7	RNU6ATAC	0.991761865	0.000101521
AC005944.2	RNU6ATAC	0.965172813	0.001798278
CTB-191K22.5	RNU6ATAC	0.976773127	0.000802966
RP11-20I23.8	RNU6ATAC	0.999768356	8.05E-08
CDC37L1-AS1	RNU6ATAC	0.995258828	3.37E-05
RP5-1142A6.10	RNU6ATAC	0.986392451	0.000276488
RP11-556I13.1	RNU6ATAC	1	0
CTA-315H11.2	ROBO3	-0.931798799	0.00681849
PSMD5-AS1	ROBO3	0.920784811	0.00916403
RP11-326C3.2	ROBO3	0.943425889	0.004710409
AP006621.8	ROBO3	0.929535355	0.007272961
RP11-160E2.19	ROBO3	0.985635921	0.000308008
AC011558.5	ROBO3	0.979655501	0.000616638
AC024028.1	ROD1	0.934800044	0.006237968
RP11-498J9.2	ROD1	0.989213007	0.000173911
AC011558.5	STK38	0.877869481	0.021462954
RP11-34P13.14	ROD1	0.989412158	0.00016756
RP11-498J9.2	SLC9A1	0.917167335	0.010007708
RP11-34P13.14	SLC9A1	0.910383172	0.0116869
RP11-93O14.2	SLC9A1	0.852010034	0.031230979
RP11-93O14.2	ROD1	0.993221403	6.88E-05
RP11-78A19.3	SLC9A1	0.856337378	0.029475901
Z69720.3	SLC9A1	0.893630024	0.016370092

RP11-485G7.6	ROD1	0.955368914	0.00294345
RP11-78A19.3	ROD1	0.989645626	0.000160265
LA16c-359F1.1	ROD1	0.943587745	0.004683752
Z69720.3	ROD1	0.989293802	0.00017132
RP11-66D17.5	ROGDI	0.985144755	0.000329378
RP11-126K1.8	ROGDI	0.993521837	6.28E-05
RP3-438O4.4	ROGDI	0.984137913	0.000375413
NUP50-AS1	ROGDI	0.999203536	9.51E-07
PSMD5-AS1	ROGDI	0.979169993	0.000646315
TOPORS-AS1	ROGDI	0.969169929	0.001411088
AC087294.2	ROGDI	0.991454271	0.000109232
AP001062.8	ROGDI	0.998332027	4.17E-06
RP11-455F5.3	ROGDI	0.98976366	0.000156638
RP11-326C3.2	ROGDI	0.96227337	0.0021081
AP006621.8	ROGDI	0.974407599	0.000974075
JHDM1D-AS1	ROGDI	0.984623192	0.000352851
RP11-20I23.6	ROGDI	0.98251521	0.000455904
AC005786.7	ROGDI	0.987246393	0.000242945
AC005944.2	ROGDI	0.984180501	0.000373405
CTB-191K22.5	ROGDI	0.998626472	2.83E-06
RP11-20I23.8	ROGDI	0.985908256	0.000296467
CCDC144NL-AS1	BLCAP	-0.852217538	0.031145725
CDC37L1-AS1	ROGDI	0.981456116	0.000512625
RP5-1142A6.10	ROGDI	0.974740324	0.000949018
RP11-556I13.1	ROGDI	0.984455858	0.000360553
LLNLR-284B4.1	ROR2	-0.930696378	0.007038056
LL21NC02-21A1.1	BLCAP	0.82726782	0.042177755
AC011558.5	BLCAP	0.829496699	0.041128681
CCDC144NL-AS1	CISD2	-0.848325	0.032763294
RMRP	CISD2	0.812298127	0.049541434
LL21NC02-21A1.1	CISD2	0.847045302	0.033303511
CCDC144NL-AS1	KLHL6	-0.825043255	0.043237093
CTA-315H11.2	KLHL6	-0.842477356	0.03526574
CTD-2139B15.2	KLHL6	-0.913230186	0.010966856
RP11-91K8.5	KLHL6	-0.833965213	0.03906274
RP11-160E2.19	KLHL6	0.872369067	0.023394951
CCDC144NL-AS1	ABLIM1	-0.914722016	0.010598417
RP11-126K1.8	ABLIM1	0.862698685	0.026983298
RP3-438O4.4	ABLIM1	0.903506715	0.013517209
NUP50-AS1	ABLIM1	0.877463798	0.021602733
TOPORS-AS1	ABLIM1	0.900208573	0.014440615
AP001062.8	ABLIM1	0.895823025	0.015713955
AC005944.2	ABLIM1	0.903020773	0.013651412
CTB-191K22.5	ABLIM1	0.865342481	0.025978123
CDC37L1-AS1	ABLIM1	0.916473486	0.010173649
CCDC144NL-AS1	PRR5	-0.835174441	0.038512251
LL21NC02-21A1.1	PRR5	0.872639064	0.023298263
RP11-34P13.14	KIAA0226	0.83641443	0.037951564
CTD-2139B15.2	KIAA0226	-0.877621959	0.021548187
RP11-91K8.5	KIAA0226	-0.817710138	0.046815682
CCDC144NL-AS1	OSBP2	-0.850059495	0.03203774
RMRP	OSBP2	0.815853111	0.047742897
LL21NC02-21A1.1	OSBP2	0.863492839	0.026679456
CCDC144NL-AS1	CAMK4	-0.907222777	0.012512124
RP11-126K1.8	CAMK4	0.83500125	0.03859087
RP3-438O4.4	CAMK4	0.852152815	0.031172305
NUP50-AS1	CAMK4	0.848135675	0.032842954
TOPORS-AS1	CAMK4	0.865703297	0.025842346
AC087294.2	CAMK4	0.890640285	0.017285375
AP001062.8	CAMK4	0.861827262	0.027318582
RP11-455F5.3	CAMK4	0.903190593	0.01360444
JHDM1D-AS1	CAMK4	0.90146119	0.014086445
AC005786.7	CAMK4	0.889782299	0.017552453

AC005944.2	CAMK4	0.89816881	0.015026413
CTB-191K22.5	CAMK4	0.834480081	0.038827904
RP11-20I23.8	CAMK4	0.906945545	0.012585812
CDC37L1-AS1	CAMK4	0.863220824	0.026783345
RP11-556I13.1	CAMK4	0.901427121	0.014096021
RP11-93O14.2	IFFO2	0.906650215	0.01266454
RP11-485G7.6	IFFO2	0.843421479	0.034855845
RP11-78A19.3	IFFO2	0.912852726	0.011061045
RP11-156P1.3	TPRG1L	-0.823762348	0.04385262
CTA-315H11.2	TPRG1L	-0.841448898	0.035714813
TOPORS-AS1	TPRG1L	0.905220464	0.013049031
RP11-326C3.2	TPRG1L	0.897408003	0.01524778
RP11-160E2.19	TPRG1L	0.8267875	0.042405445
RMRP	TPRG1L	0.822493085	0.044466551
RP5-1142A6.10	TPRG1L	0.909050744	0.012031495
CCDC144NL-AS1	ATM	-0.899719224	0.014580128
RP11-66D17.5	ATM	0.866193306	0.025658494
RP11-126K1.8	ATM	0.910544173	0.011645589
AC005944.2	ATM	0.903382185	0.01355154
CTB-191K22.5	ATM	0.910484699	0.011660841
AC011558.5	ATM	0.82798266	0.041839954
CCDC144NL-AS1	LILRB2	-0.898724655	0.014865668
RP11-66D17.5	LILRB2	0.872094955	0.023493307
CCDC144NL-AS1	SPATA13	-0.895566534	0.015790029
CTB-31O20.6	SPATA13	-0.815423612	0.047958549
CTD-2139B15.2	SPATA13	-0.880374856	0.020609334
RP3-438O4.4	SPATA13	0.819767893	0.045798124
PSMD5-AS1	SPATA13	0.86410624	0.026445888
AC087294.2	SPATA13	0.841687436	0.035610419
RP11-455F5.3	SPATA13	0.852984121	0.030831727
RP11-326C3.2	SPATA13	0.910358979	0.011693113
AP006621.8	SPATA13	0.880357774	0.020615098
JHDM1D-AS1	SPATA13	0.863609475	0.026634969
RP11-20I23.6	SPATA13	0.868284139	0.024881029
AC005786.7	SPATA13	0.826027351	0.042766954
RP11-20I23.8	SPATA13	0.864244396	0.026393416
CDC37L1-AS1	SPATA13	0.840533316	0.036116846
RP5-1142A6.10	SPATA13	0.856290254	0.029494755
RP11-556I13.1	SPATA13	0.863876524	0.026533244
AC011558.5	SPATA13	0.906704925	0.012649938
CCDC144NL-AS1	PADI4	-0.910900552	0.0115544
RP11-66D17.5	PADI4	0.833674074	0.039195824
RP11-126K1.8	PADI4	0.89064039	0.017285342
RP3-438O4.4	PADI4	0.909143744	0.012007286
NUP50-AS1	PADI4	0.904107008	0.013352308
TOPORS-AS1	PADI4	0.916362558	0.010200301
AP001062.8	PADI4	0.915929719	0.010304622
CTB-191K22.5	PADI4	0.892070471	0.016844551
CCDC144NL-AS1	CC2D1B	-0.867498772	0.025171729
AC011558.5	CC2D1B	0.824273939	0.043606293
CCDC144NL-AS1	PXN	-0.881547466	0.0202155
RP11-66D17.5	PXN	0.912951008	0.011036482
AC011558.5	PXN	0.882890675	0.019768837
RP11-156P1.3	GYPB	-0.858888797	0.028463628
RP3-438O4.4	GYPB	0.827179904	0.042219388
NUP50-AS1	GYPB	0.895645304	0.015766648
PSMD5-AS1	GYPB	0.850109757	0.032016829
AC087294.2	GYPB	0.844637572	0.034331197
AP001062.8	GYPB	0.885088291	0.019048364
RP11-455F5.3	GYPB	0.843652608	0.034755843
AP006621.8	GYPB	0.83280454	0.039594565
JHDM1D-AS1	GYPB	0.822419196	0.044502413
AC005786.7	GYPB	0.825204666	0.043159817

AC005944.2	GYPB	0.88676626	0.018506885
CTB-191K22.5	GYPB	0.913925148	0.010794461
RP11-20I23.8	GYPB	0.825706489	0.042919978
CDC37L1-AS1	GYPB	0.817519648	0.046910404
RP11-556I13.1	GYPB	0.821802997	0.044802009
CCDC144NL-AS1	PTGER2	-0.831233251	0.040319898
CTA-315H11.2	PTGER2	-0.864529292	0.026285369
CTD-2541M15.3	PTGER2	-0.821468861	0.044964857
PSMD5-AS1	PTGER2	0.828968435	0.041376204
RP11-326C3.2	PTGER2	0.858268811	0.028708066
AP006621.8	PTGER2	0.839909899	0.036391799
RP5-1142A6.10	PTGER2	0.819854273	0.045755636
CCDC144NL-AS1	CYLD	-0.893109537	0.016527714
CTD-2531D15.5	CYLD	-0.81858274	0.046382911
CTA-315H11.2	CYLD	-0.906047507	0.012825944
PSMD5-AS1	CYLD	0.87606572	0.022087761
RP11-455F5.3	CYLD	0.823693492	0.043885823
RP11-326C3.2	CYLD	0.896972688	0.015375142
AP006621.8	CYLD	0.886506276	0.018590292
JHDM1D-AS1	CYLD	0.820167441	0.045601754
RP11-20I23.6	CYLD	0.845703757	0.033874305
AC005944.2	CYLD	0.826156943	0.042705222
RP11-20I23.8	CYLD	0.827299161	0.042162919
RP5-1142A6.10	CYLD	0.853685957	0.030545568
RP11-556I13.1	CYLD	0.820097493	0.045636104
CCDC144NL-AS1	CD2	-0.91162551	0.011369971
RP11-66D17.5	CD2	0.865495306	0.025920572
RP11-126K1.8	CD2	0.916911755	0.010068678
CCDC144NL-AS1	DCAF6	-0.849435043	0.03229807
CTA-315H11.2	DCAF6	-0.906465832	0.012713813
RP11-160E2.19	DCAF6	0.881867931	0.020108501
RMRP	DCAF6	0.870674459	0.024006152
LL21NC02-21A1.1	DCAF6	0.858561762	0.028592442
CTB-31O20.6	CREB1	-0.851077735	0.031615374
RP11-66D17.5	CREB1	0.845290158	0.034051202
NUP50-AS1	CREB1	0.911135763	0.011494405
TOPORS-AS1	CREB1	0.893378158	0.016446276
AC005944.2	CREB1	0.915593132	0.0103861
CTB-191K22.5	CREB1	0.905209309	0.013052052
RMRP	CREB1	0.812702441	0.049335329
AC011558.5	CREB1	0.828696398	0.041503941
CCDC144NL-AS1	ZAP70	-0.884949708	0.019093419
AC011558.5	ZAP70	0.84531804	0.034039263
CCDC144NL-AS1	MAP2K7	-0.855875555	0.029660917
LL21NC02-21A1.1	MAP2K7	0.842346984	0.035322519
AC024028.1	C21orf91	0.881322993	0.020290611
CTD-2139B15.2	C21orf91	-0.894988531	0.015962111
RP11-91K8.5	C21orf91	-0.841802258	0.035560219
AC011558.5	C21orf91	0.853210282	0.030739376
CCDC144NL-AS1	BCL9L	-0.879250342	0.020990426
CTD-2139B15.2	BCL9L	-0.862591538	0.027024418
PSMD5-AS1	BCL9L	0.85673391	0.029317478
RP11-455F5.3	BCL9L	0.820879679	0.045252678
RP11-326C3.2	BCL9L	0.896143101	0.01561927
AP006621.8	BCL9L	0.870992405	0.023890905
JHDM1D-AS1	BCL9L	0.826215514	0.042677335
RP11-20I23.6	BCL9L	0.845500318	0.033961262
RP11-20I23.8	BCL9L	0.830653415	0.040589116
RP5-1142A6.10	BCL9L	0.84710821	0.033276857
RP11-556I13.1	BCL9L	0.826368786	0.042604398
RP11-93O14.2	PORCN	0.909641697	0.011878064
RP11-485G7.6	PORCN	0.852895501	0.03086795
RP11-78A19.3	PORCN	0.911529674	0.011394269

CCDC144NL-AS1	PTEN	-0.89835265	0.014973156
AC011558.5	PTEN	0.843146905	0.03497482
AC024028.1	BPI	0.882781161	0.019805076
RP11-498J9.2	BPI	0.911575395	0.011382674
RP11-34P13.14	BPI	0.831025359	0.040416326
RP11-93O14.2	BPI	0.877774186	0.021495749
RP11-485G7.6	BPI	0.908967577	0.012053165
RP11-473M20.11	BPI	0.850855846	0.031707188
RP11-78A19.3	BPI	0.874835559	0.022518784
Z69720.3	BPI	0.859609711	0.028180643
CCDC144NL-AS1	TMEM63B	-0.851609019	0.031396049
LL21NC02-21A1.1	TMEM63B	0.85585001	0.029671167
RP11-473M20.11	PLBD1	0.85181782	0.031310049
CTD-2541M15.3	PLBD1	-0.824886558	0.043312174
RP11-160E2.19	PLBD1	0.887573452	0.018249072
CCDC144NL-AS1	ABCA2	-0.843222216	0.034942168
CTA-315H11.2	ABCA2	-0.908893706	0.012072428
CTD-2139B15.2	ABCA2	-0.892714146	0.016647938
RP11-91K8.5	ABCA2	-0.854753303	0.030112799
PSMD5-AS1	ABCA2	0.826109746	0.0427277
RP11-326C3.2	ABCA2	0.866808125	0.025428696
AP006621.8	ABCA2	0.840252163	0.036240725
RP11-20I23.6	ABCA2	0.81515123	0.048095547
RP5-1142A6.10	ABCA2	0.815340077	0.048000545
CCDC144NL-AS1	SIGLEC10	-0.868127243	0.024938975
RP11-66D17.5	SIGLEC10	0.905590321	0.012949036
AC011558.5	SIGLEC10	0.906367453	0.01274014
RP11-118G23.2	ECSIT	-0.861673568	0.02737792
PSMD5-AS1	ECSIT	0.899700831	0.014585384
RP11-326C3.2	ECSIT	0.874431589	0.022661193
AP006621.8	ECSIT	0.887609784	0.018237509
CTD-2531D15.5	KLHL24	-0.850109704	0.032016851
CTB-31O20.6	KLHL24	-0.836586648	0.037873996
CTA-315H11.2	KLHL24	-0.892288009	0.016777979
RP3-438O4.4	KLHL24	0.814673356	0.048336336
PSMD5-AS1	KLHL24	0.82708077	0.042266356
AC087294.2	KLHL24	0.834327157	0.038897584
RP11-455F5.3	KLHL24	0.84596791	0.033761553
RP11-326C3.2	KLHL24	0.861041254	0.027622685
AP006621.8	KLHL24	0.845792801	0.033836278
JHDM1D-AS1	KLHL24	0.848635019	0.032633048
RP11-20I23.6	KLHL24	0.82784168	0.041906474
RP11-160E2.19	KLHL24	0.813052942	0.049156979
RMRP	KLHL24	0.878665734	0.021189864
RP11-20I23.8	KLHL24	0.84441015	0.034429027
CDC37L1-AS1	KLHL24	0.816860509	0.047238854
RP11-556I13.1	KLHL24	0.848658001	0.032623402
CCDC144NL-AS1	ZDHHC3	-0.825306302	0.043111191
CTA-315H11.2	ZDHHC3	-0.911234175	0.011469348
RP11-160E2.19	ZDHHC3	0.910396807	0.011683398
LL21NC02-21A1.1	ZDHHC3	0.882631192	0.019854752
RP11-498J9.2	STX1A	0.829708659	0.04102956
RP11-34P13.14	STX1A	0.82301708	0.044212617
AC011558.5	STX1A	0.823962331	0.043756253
CCDC144NL-AS1	ZDHHC18	-0.886418327	0.018618548
RP11-66D17.5	ZDHHC18	0.8811899	0.020335208
AC011558.5	ZDHHC18	0.915904604	0.010310691
CTA-315H11.2	RARRES3	-0.881533607	0.020220134
TOPORS-AS1	RARRES3	0.911496363	0.011402721
RP11-160E2.19	RARRES3	0.898768187	0.014853114
LL21NC02-21A1.1	RARRES3	0.896908386	0.015393999
CCDC144NL-AS1	NPRL3	-0.838188092	0.037156272
LL21NC02-21A1.1	NPRL3	0.868488482	0.024805655

CCDC144NL-AS1	PRKAG2	-0.858692946	0.028540738
CTA-315H11.2	PRKAG2	-0.894496054	0.016109437
PSMD5-AS1	PRKAG2	0.868026211	0.024976322
RP11-455F5.3	PRKAG2	0.820227606	0.045572218
RP11-326C3.2	PRKAG2	0.896625905	0.015476967
AP006621.8	PRKAG2	0.878533509	0.021235098
JHDM1D-AS1	PRKAG2	0.820015551	0.045676359
RP11-20I23.6	PRKAG2	0.849091746	0.032441612
AC005944.2	PRKAG2	0.82307544	0.044184377
RP11-20I23.8	PRKAG2	0.827016337	0.042296896
RP5-1142A6.10	PRKAG2	0.862025047	0.027242311
RP11-556I13.1	PRKAG2	0.820040434	0.045664133
RP11-118G23.2	MMS19	-0.857051587	0.029190852
RP11-680G24.6	MMS19	-0.882236687	0.019985714
CCDC144NL-AS1	SPTBN1	-0.829663672	0.041050588
CTA-315H11.2	SPTBN1	-0.8548891	0.030057947
CTD-2139B15.2	SPTBN1	-0.821086313	0.045151638
RP11-326C3.2	SPTBN1	0.836160924	0.038065878
AP006621.8	SPTBN1	0.815910606	0.047714064
RP11-498J9.2	PLCG2	0.896958669	0.015379252
RP11-34P13.14	PLCG2	0.895396369	0.015840597
RP11-93O14.2	PLCG2	0.83298345	0.039512368
RP11-78A19.3	PLCG2	0.844368993	0.034446745
Z69720.3	PLCG2	0.865226664	0.026021777
CCDC144NL-AS1	DNMT3A	-0.883603332	0.019533795
RP3-438O4.4	DNMT3A	0.835484049	0.038371894
PSMD5-AS1	DNMT3A	0.903440016	0.013535591
TOPORS-AS1	DNMT3A	0.846578816	0.033501471
AC087294.2	DNMT3A	0.865949164	0.025750018
AP001062.8	DNMT3A	0.826863097	0.042369571
RP11-455F5.3	DNMT3A	0.877315978	0.021653772
AP006621.8	DNMT3A	0.915175863	0.010487541
JHDM1D-AS1	DNMT3A	0.88241104	0.019927785
RP11-20I23.6	DNMT3A	0.900885543	0.014248679
AC005786.7	DNMT3A	0.866199248	0.025656269
AC005944.2	DNMT3A	0.855399034	0.029852397
RP11-20I23.8	DNMT3A	0.886380634	0.018630664
CDC37L1-AS1	DNMT3A	0.851408575	0.031478712
RP5-1142A6.10	DNMT3A	0.904275471	0.013306207
RP11-556I13.1	DNMT3A	0.882556303	0.019879581
AC024028.1	SERPINB9	0.88892972	0.017819796
CTD-2139B15.2	SERPINB9	-0.85189329	0.031278992
AC011558.5	SERPINB9	0.883216359	0.019661256
RP11-498J9.2	TRIO	0.830396364	0.040708733
RP11-34P13.14	TRIO	0.857594953	0.028974866
CTD-2139B15.2	TRIO	-0.830279087	0.040763361
RP11-680G24.6	ICOSLG	0.831363766	0.040259416
LA16c-359F1.1	ICOSLG	0.883958045	0.019417308
CCDC144NL-AS1	CEACAM21	-0.907566749	0.012420988
RP11-66D17.5	CEACAM21	0.841211972	0.035818645
RP11-126K1.8	CEACAM21	0.900541956	0.014345939
RP3-438O4.4	CEACAM21	0.899249354	0.014714695
NUP50-AS1	CEACAM21	0.908446293	0.012189416
TOPORS-AS1	CEACAM21	0.905980102	0.012844056
CTB-191K22.5	CEACAM21	0.89915434	0.014741978
CDC37L1-AS1	CEACAM21	0.906510249	0.012701935
RP11-473M20.11	ANXA3	0.870450444	0.02408751
CTD-2541M15.3	ANXA3	-0.814822084	0.048261336
RP11-160E2.19	ANXA3	0.8704199	0.024098614
RP11-473M20.11	SPNS3	0.826608334	0.042490523
LLNLR-284B4.1	SPNS3	0.825212007	0.043156303
RP11-160E2.19	SPNS3	0.895907915	0.015688816
CCDC144NL-AS1	BIN1	-0.897045535	0.015353794

RP11-66D17.5	BIN1	0.885371928	0.018956309
AC011558.5	BIN1	0.912616363	0.011120224
RP11-473M20.11	C1orf113	0.910563312	0.011640683
CCDC144NL-AS1	LCK	-0.879410108	0.020936079
AC011558.5	LCK	0.83545159	0.038386598
CCDC144NL-AS1	NPEPL1	-0.877392949	0.021627189
RP11-66D17.5	NPEPL1	0.827071581	0.042270711
RP11-126K1.8	NPEPL1	0.870691623	0.023999924
RP3-438O4.4	NPEPL1	0.904846634	0.013150478
NUP50-AS1	NPEPL1	0.894405717	0.016136533
TOPORS-AS1	NPEPL1	0.915166169	0.010489903
AP001062.8	NPEPL1	0.904379717	0.013277718
CTB-191K22.5	NPEPL1	0.882951797	0.019748626
CDC37L1-AS1	NPEPL1	0.915642574	0.010374112
CCDC144NL-AS1	DGKZ	-0.868614592	0.024759192
AC011558.5	DGKZ	0.858559778	0.028593225
AC024028.1	PAG1	0.867152445	0.025300431
CTD-2531D15.5	PAG1	-0.838554371	0.036993021
AC011558.5	PAG1	0.844789221	0.034266035
RP11-485G7.6	PLXNA3	0.87894855	0.021093269
RP11-473M20.11	PLXNA3	0.894382575	0.016143477
RP11-680G24.6	PLXNA3	0.879095906	0.021043024
Z69720.3	PLXNA3	0.907044527	0.012559479
CCDC144NL-AS1	MGAT4A	-0.900852571	0.014257999
RP11-126K1.8	MGAT4A	0.855998605	0.029611567
RP3-438O4.4	MGAT4A	0.869866366	0.024300253
NUP50-AS1	MGAT4A	0.86906708	0.024592825
TOPORS-AS1	MGAT4A	0.87837548	0.021289219
AC087294.2	MGAT4A	0.906698611	0.012651622
AP001062.8	MGAT4A	0.880908113	0.020429784
JHDM1D-AS1	MGAT4A	0.915948826	0.010300006
AC005786.7	MGAT4A	0.905956706	0.012850346
CTB-191K22.5	MGAT4A	0.85863651	0.028562976
CDC37L1-AS1	MGAT4A	0.881367226	0.020275799
RP11-556I13.1	MGAT4A	0.91589664	0.010312615
CCDC144NL-AS1	RPIA	-0.858234312	0.028721697
LL21NC02-21A1.1	RPIA	0.825551041	0.042994205
CCDC144NL-AS1	CSAD	-0.915696796	0.010360973
RP11-66D17.5	CSAD	0.900889932	0.014247439
AC011558.5	CSAD	0.879093206	0.021043944
RP11-126K1.8	NCOA7	0.866200149	0.025655931
RP3-438O4.4	NCOA7	0.889625769	0.017601391
NUP50-AS1	NCOA7	0.870420042	0.024098562
TOPORS-AS1	NCOA7	0.885739035	0.018837481
AP001062.8	NCOA7	0.890891738	0.017207474
AC005786.7	NCOA7	0.907246926	0.012505716
AC005944.2	NCOA7	0.897486669	0.015224819
CTB-191K22.5	NCOA7	0.857186366	0.029137206
CDC37L1-AS1	NCOA7	0.90077457	0.014280058
RP11-34P13.14	CD72	0.910956071	0.011540225
RP11-93O14.2	CD72	0.910896533	0.011555427
RP11-485G7.6	CD72	0.915459589	0.010418513
RP11-78A19.3	CD72	0.917119075	0.010019207
AC024028.1	COL9A2	0.916910531	0.010068971
AC011558.5	COL9A2	0.863860292	0.026539422
CCDC144NL-AS1	IGF2BP2	-0.876140725	0.02206161
RMRP	IGF2BP2	0.816592401	0.047372757
LL21NC02-21A1.1	IGF2BP2	0.81245876	0.049459502
CCDC144NL-AS1	DENND2D	-0.840276299	0.036230083
LL21NC02-21A1.1	DENND2D	0.831949956	0.039988291
AC011558.5	DENND2D	0.815805784	0.047766638
RP3-339A18.6	FAM65C	-0.885249506	0.018996015
RP11-156P1.3	FAM65C	-0.856439709	0.029434979

RP11-66D17.5	FAM65C	0.840850611	0.035977282
RP11-126K1.8	FAM65C	0.87759865	0.021556222
NUP50-AS1	FAM65C	0.830672792	0.040580105
AP001062.8	FAM65C	0.823756861	0.043855265
CTB-191K22.5	FAM65C	0.83779084	0.037333709
LL21NC02-21A1.1	FAM65C	0.830805112	0.040518602
CCDC144NL-AS1	ROGDI	-0.813658802	0.048849397
CTA-315H11.2	ROGDI	-0.902777078	0.013718955
RP11-160E2.19	ROGDI	0.909841646	0.011826366
LL21NC02-21A1.1	ROGDI	0.8966429	0.015471969
CCDC144NL-AS1	FAIM3	-0.885670222	0.018859728
AC011558.5	FAIM3	0.848235911	0.032800767
CCDC144NL-AS1	IL17RA	-0.851157152	0.031582543
CTA-315H11.2	IL17RA	-0.864217617	0.026403583
CTD-2541M15.3	IL17RA	-0.813114474	0.049125699
PSMD5-AS1	IL17RA	0.831175943	0.040346468
RP11-326C3.2	IL17RA	0.85168818	0.031363431
AP006621.8	IL17RA	0.841343585	0.035760949
AC024028.1	SLC27A3	0.816913673	0.047212323
RP11-473M20.11	SLC27A3	0.887645338	0.018226197
LLNLR-284B4.1	SLC27A3	0.912405387	0.011173176
CCDC144NL-AS1	KIAA1539	-0.867745533	0.025080219
LL21NC02-21A1.1	KIAA1539	0.84055388	0.036107793
CCDC144NL-AS1	VNN2	-0.909003093	0.012043909
RP11-66D17.5	VNN2	0.857689073	0.028937531
RP11-126K1.8	VNN2	0.908888763	0.012073717
CTB-191K22.5	VNN2	0.911331595	0.01144457
CCDC144NL-AS1	DPM2	-0.845347709	0.034026561
LL21NC02-21A1.1	DPM2	0.853858323	0.030475482
CCDC144NL-AS1	TMEM71	-0.911712764	0.011347871
RP11-66D17.5	TMEM71	0.858435038	0.028642432
RP11-126K1.8	TMEM71	0.910989445	0.011531708
CTB-191K22.5	TMEM71	0.912355152	0.011185802
RP11-66D17.5	BCL6	0.911127538	0.0114965
AC011558.5	BCL6	0.830356386	0.040727351
CCDC144NL-AS1	INPP5K	-0.85614438	0.029553153
LL21NC02-21A1.1	INPP5K	0.84518667	0.034095532
CCDC144NL-AS1	BPGM	-0.865915086	0.025762806
LL21NC02-21A1.1	BPGM	0.820115153	0.04562743
CCDC144NL-AS1	OBSCN	-0.878821819	0.021136528
CTA-315H11.2	OBSCN	-0.912978943	0.011029506
CTD-2139B15.2	OBSCN	-0.812881116	0.049244374
PSMD5-AS1	OBSCN	0.867754992	0.025076714
RP11-455F5.3	OBSCN	0.82162114	0.044890606
RP11-326C3.2	OBSCN	0.897870349	0.015113069
AP006621.8	OBSCN	0.87965571	0.020852664
JHDM1D-AS1	OBSCN	0.822501824	0.04446231
RP11-20I23.6	OBSCN	0.847110278	0.033275982
AC005944.2	OBSCN	0.81602456	0.047656939
RP11-20I23.8	OBSCN	0.828716895	0.04149431
RP5-1142A6.10	OBSCN	0.854189876	0.030340884
RP11-556I13.1	OBSCN	0.822546505	0.044440632
CCDC144NL-AS1	MBD5	-0.863281473	0.026760165
RP11-160E2.19	MBD5	0.915030857	0.010522905
RMRP	MBD5	0.818516038	0.046415926
CCDC144NL-AS1	RASAL3	-0.893210728	0.016497013
RP11-66D17.5	RASAL3	0.873276571	0.023070726
RP11-126K1.8	RASAL3	0.914425741	0.010671103
CCDC144NL-AS1	ST6GALNAC4	-0.812949955	0.049209352
CTA-315H11.2	ST6GALNAC4	-0.895538834	0.015798256
RP11-160E2.19	ST6GALNAC4	0.895966903	0.015671359
LL21NC02-21A1.1	ST6GALNAC4	0.904592965	0.013219532
CCDC144NL-AS1	CHMP7	-0.881808317	0.020128385

AC011558.5	CHMP7	0.833638204	0.039212236
RP11-485G7.6	SRC	0.916599529	0.010143406
LA16c-359F1.1	SRC	0.816572912	0.047382497
CCDC144NL-AS1	FAM89B	-0.826932511	0.042336644
CTA-315H11.2	FAM89B	-0.881214859	0.020326841
RP11-160E2.19	FAM89B	0.86807476	0.024958372
RMRP	FAM89B	0.849119127	0.032430152
LL21NC02-21A1.1	FAM89B	0.888872585	0.01783778
PSMD5-AS1	REXO2	0.888490025	0.017958428
RP11-326C3.2	REXO2	0.866789514	0.025435638
AP006621.8	REXO2	0.88194399	0.020083146
RP11-20I23.6	REXO2	0.908901294	0.012070448
AC005944.2	REXO2	0.899552112	0.014627919
RMRP	REXO2	0.862051554	0.027232097
RP5-1142A6.10	REXO2	0.892412093	0.016740063
CCDC144NL-AS1	CCR7	-0.897544576	0.015207928
AC011558.5	CCR7	0.864857045	0.026161328
RP11-498J9.2	BIRC3	0.840291145	0.036223537
RP11-34P13.14	BIRC3	0.83149046	0.040200744
AC011558.5	BIRC3	0.81286321	0.049253485
LA16c-359F1.1	CIITA	0.84066423	0.036059232
RP3-339A18.6	MST1	-0.832179701	0.039882263
RP11-156P1.3	MST1	-0.879328094	0.020963969
RP11-66D17.5	MST1	0.877284135	0.021664775
RP11-126K1.8	MST1	0.904486964	0.01324844
NUP50-AS1	MST1	0.862282153	0.027143315
PSMD5-AS1	MST1	0.826780411	0.04240881
AP001062.8	MST1	0.851717988	0.031351153
AC005944.2	MST1	0.858555908	0.028594751
CTB-191K22.5	MST1	0.877326929	0.02164999
LL21NC02-21A1.1	MST1	0.891968031	0.016875944
CCDC144NL-AS1	DCP2	-0.891614474	0.016984508
AC011558.5	DCP2	0.821236372	0.045078328
RP11-498J9.2	INPP5A	0.847932144	0.032928693
RP11-34P13.14	INPP5A	0.844395452	0.034435354
RP11-78A19.3	INPP5A	0.83161821	0.040141625
RP11-66D17.5	RNF19A	0.902059986	0.013918637
RMRP	RNF19A	0.829255978	0.041241387
AC011558.5	RNF19A	0.819179754	0.046087896
CCDC144NL-AS1	SECISBP2	-0.898158096	0.01502952
RMRP	SECISBP2	0.823842717	0.04381388
CCDC144NL-AS1	TMIGD2	-0.906445146	0.012719346
RP11-66D17.5	TMIGD2	0.871995096	0.023529187
RP11-34P13.14	RP2	0.927217077	0.007753252
RP11-93O14.2	RP2	0.950531022	0.00361024
RP11-78A19.3	RP2	0.931059289	0.006965401
RP11-680G24.6	RP2	0.974537514	0.000964253
LA16c-359F1.1	RP2	0.94986389	0.003707432
RP11-93O14.2	CSGALNACT2	0.886733631	0.018517343
RP11-485G7.6	CSGALNACT2	0.827982063	0.041840236
RP11-78A19.3	CSGALNACT2	0.899670963	0.014593922
Z69720.3	CSGALNACT2	0.902837468	0.013702202
CCDC144NL-AS1	MAP4K1	-0.872963233	0.023182429
CTA-315H11.2	MAP4K1	-0.910837654	0.011570469
PSMD5-AS1	MAP4K1	0.898751312	0.01485798
TOPORS-AS1	MAP4K1	0.823177177	0.044135168
AC087294.2	MAP4K1	0.840391917	0.036179123
RP11-455F5.3	MAP4K1	0.854406297	0.030253176
AP006621.8	MAP4K1	0.907574574	0.012418919
JHDM1D-AS1	MAP4K1	0.852775793	0.030916911
RP11-20I23.6	MAP4K1	0.880029003	0.020726186
AC005786.7	MAP4K1	0.846131307	0.033691897
AC005944.2	MAP4K1	0.858768904	0.02851082

RP11-20I23.8	MAP4K1	0.859608193	0.028181238
RP5-1142A6.10	MAP4K1	0.891981276	0.016871883
RP11-556I13.1	MAP4K1	0.852759045	0.030923764
CCDC144NL-AS1	XPO7	-0.877063135	0.021741208
RP11-160E2.19	XPO7	0.908658445	0.012133875
RMRP	XPO7	0.856688935	0.029335426
LL21NC02-21A1.1	XPO7	0.843572528	0.034790476
CCDC144NL-AS1	SLA	-0.833145304	0.039438076
CTA-315H11.2	SLA	-0.91108697	0.011506838
CTD-2139B15.2	SLA	-0.83802842	0.037227544
CTD-2541M15.3	SLA	-0.82021761	0.045577125
RP11-91K8.5	SLA	-0.830641847	0.040594495
PSMD5-AS1	SLA	0.861921036	0.027282408
AC087294.2	SLA	0.812413783	0.049482436
RP11-455F5.3	SLA	0.824744455	0.043380315
RP11-326C3.2	SLA	0.897483244	0.015225818
AP006621.8	SLA	0.872949342	0.023187387
JHDM1D-AS1	SLA	0.830444786	0.040686187
RP11-20I23.6	SLA	0.854534681	0.030201204
AC005786.7	SLA	0.817418201	0.046960886
AC005944.2	SLA	0.81868436	0.046332633
RP11-20I23.8	SLA	0.835800812	0.038228542
RP5-1142A6.10	SLA	0.862129124	0.027202217
RP11-556I13.1	SLA	0.830614051	0.040607423
RP11-485G7.6	CLEC4D	0.889641272	0.017596541
AC011558.5	NRBP2	0.850318269	0.03193015
RP11-91K8.5	ENTPD4	-0.886397654	0.018625193
AC011558.5	ENTPD4	0.868554946	0.024781163
CCDC144NL-AS1	PHC3	-0.884610172	0.019204022
CTA-315H11.2	PHC3	-0.90406831	0.013362909
CTD-2139B15.2	PHC3	-0.845404049	0.034002447
PSMD5-AS1	PHC3	0.839916004	0.036389101
RP11-326C3.2	PHC3	0.876488311	0.021940612
AP006621.8	PHC3	0.854527133	0.030204258
RP11-20I23.6	PHC3	0.819428353	0.045965309
RP5-1142A6.10	PHC3	0.823678872	0.043892874
CCDC144NL-AS1	AQP9	-0.844370765	0.034445982
CTA-315H11.2	AQP9	-0.862590402	0.027024854
CTD-2541M15.3	AQP9	-0.818212876	0.046566118
PSMD5-AS1	AQP9	0.835753713	0.038249841
RP11-326C3.2	AQP9	0.85646996	0.029422886
AP006621.8	AQP9	0.845407505	0.034000969
RP5-1142A6.10	AQP9	0.81657739	0.047380259
RP3-339A18.6	GYPE	-0.847152582	0.033258064
RP3-337H4.8	GYPE	0.897883683	0.015109192
RP11-767C1.1	GYPE	0.828098809	0.041785188
AC024028.1	SMARCD3	0.835928153	0.038170985
RP11-498J9.2	SMARCD3	0.821164113	0.045113623
RP11-473M20.11	SMARCD3	0.83667124	0.037835924
LLNLR-284B4.1	SMARCD3	0.913115651	0.010995395
CTD-2621I17.8	SMARCD3	-0.864175719	0.026419494
AC024028.1	IGSF8	0.893298141	0.016470514
LLNLR-284B4.1	IGSF8	0.824620673	0.043439712
AC011558.5	IGSF8	0.900367202	0.01439553
CCDC144NL-AS1	TNS1	-0.877006488	0.02176082
RMRP	TNS1	0.821699712	0.044852318
LL21NC02-21A1.1	TNS1	0.830282979	0.040761548
RP11-34P13.14	IFRD2	-0.85164495	0.031381242
RP11-118G23.2	IFRD2	-0.862823996	0.026935246
RP11-680G24.6	IFRD2	-0.915912595	0.010308759
LA16c-359F1.1	IFRD2	-0.856253908	0.0295093
RP11-680G24.6	NEU4	0.838344987	0.037086303
LA16c-359F1.1	NEU4	0.885251631	0.018995326

CCDC144NL-AS1	FGFR1OP2	-0.889263956	0.017714758
RMRP	FGFR1OP2	0.844846999	0.034241224
CCDC144NL-AS1	LY9	-0.914488826	0.010655606
RP11-66D17.5	LY9	0.86457309	0.026268777
CCDC144NL-AS1	SFI1	-0.875898778	0.022146022
LL21NC02-21A1.1	SFI1	0.828187207	0.041743528
CCDC144NL-AS1	IL16	-0.904806419	0.013161413
RP11-66D17.5	IL16	0.883536078	0.019555918
AC011558.5	IL16	0.909520973	0.01190933
CCDC144NL-AS1	LIME1	-0.883967291	0.019414276
AC011558.5	LIME1	0.839192143	0.036709572
CTD-2139B15.2	RPA3	0.949545932	0.003754201
RP11-498J9.2	UTRN	0.84832281	0.032764214
RP11-34P13.14	UTRN	0.848894571	0.032524192
NUP50-AS1	RPE	-0.926817886	0.007837465
RP11-473M20.11	CD300LF	0.833851899	0.039114512
LLNLR-284B4.1	CD300LF	0.854157819	0.030353885
CTD-2541M15.3	CD300LF	-0.838271215	0.037119195
RP11-160E2.19	CD300LF	0.888538565	0.017943098
PSMD5-AS1	RPE	-0.941604186	0.00501554
AP006621.8	RPE	-0.930394893	0.007098692
RP11-20I23.6	RPE	-0.921902386	0.008910688
CTD-2139B15.2	NCOA3	-0.819159458	0.046097911
RP3-438O4.4	NCOA3	0.817997451	0.046672981
PSMD5-AS1	NCOA3	0.902251662	0.013865127
TOPORS-AS1	NCOA3	0.818477545	0.046434984
AC087294.2	NCOA3	0.855451217	0.0298314
AP001062.8	NCOA3	0.817730276	0.046805673
RP11-455F5.3	NCOA3	0.869998186	0.024252162
AC005786.7	RPE	-0.924852314	0.008258576
AP006621.8	NCOA3	0.914998931	0.010530699
JHDM1D-AS1	NCOA3	0.87239869	0.023384333
RP11-20I23.6	NCOA3	0.886782054	0.018501824
AC005944.2	RPE	-0.974005039	0.001004824
AC005786.7	NCOA3	0.845051096	0.034153648
AC005944.2	NCOA3	0.844957072	0.034193979
RP11-20I23.8	NCOA3	0.87640588	0.021969278
CDC37L1-AS1	NCOA3	0.83453125	0.038804601
RP5-1142A6.10	NCOA3	0.883792184	0.019471735
RP11-556I13.1	NCOA3	0.872464424	0.023360781
CTB-191K22.5	RPE	-0.936087092	0.005996752
CCDC144NL-AS1	MARCH8	-0.868595086	0.024766376
RP5-1142A6.10	RPE	-0.930346807	0.007108387
CTD-2139B15.2	RPF2	0.929889936	0.007200821
AC011558.5	RPF2	-0.923748059	0.00849986
CTA-315H11.2	RPIA	-0.942854191	0.004805156
RP11-66D17.5	RPIA	0.953393127	0.003207681
RP11-126K1.8	RPIA	0.973060844	0.001078802
RP3-438O4.4	RPIA	0.995124461	3.56E-05
NUP50-AS1	RPIA	0.984488541	0.000359042
PSMD5-AS1	RPIA	0.980414477	0.000571633
TOPORS-AS1	RPIA	0.980526363	0.000565141
AC087294.2	RPIA	0.998981963	1.55E-06
AP001062.8	RPIA	0.992034968	9.49E-05
RP11-455F5.3	RPIA	0.998372812	3.97E-06
RP11-326C3.2	RPIA	0.986310702	0.000279813
AP006621.8	RPIA	0.982128955	0.000476208
JHDM1D-AS1	RPIA	0.999831474	4.26E-08
RP11-20I23.6	RPIA	0.996114365	2.26E-05
RP11-160E2.19	RPIA	0.940031691	0.005286468
RMRP	MARCH8	0.813454011	0.048953264
AC005786.7	RPIA	0.992155009	9.21E-05
AC005944.2	RPIA	0.964887765	0.001827659

LL21NC02-21A1.1	MARCH8	0.817667595	0.046836829
CTB-191K22.5	RPIA	0.97828133	0.000702429
RP11-20I23.8	RPIA	0.999466883	4.26E-07
CDC37L1-AS1	RPIA	0.996734415	1.60E-05
RP5-1142A6.10	RPIA	0.985551429	0.000311634
AC011558.5	STAT4	0.854826543	0.030083209
AC024028.1	ITGAM	0.855328861	0.029880643
RP11-556I13.1	RPIA	0.999838794	3.90E-08
LLNLR-284B4.1	ITGAM	0.833279277	0.039376632
CTD-2541M15.3	ITGAM	-0.819100193	0.046127161
MIR210HG	RPL12P8	0.937446429	0.005747039
CCDC144NL-AS1	PSME4	-0.842506564	0.035253026
CTD-2139B15.2	RPL26L1	0.923112626	0.008640236
RP11-66D17.5	RPL38	0.975987478	0.000857979
RP11-126K1.8	RPL38	0.919771709	0.00939667
RP3-438O4.4	RPL38	0.957940046	0.002616357
NUP50-AS1	RPL38	0.959098218	0.00247522
TOPORS-AS1	RPL38	0.966346803	0.00167975
AC087294.2	RPL38	0.936614556	0.00589924
AP001062.8	RPL38	0.94639703	0.00423291
RP11-455F5.3	RPL38	0.923523345	0.008549374
JHDM1D-AS1	RPL38	0.926283396	0.007950913
RP11-20I23.6	RPL38	0.925776561	0.008059225
AC005786.7	RPL38	0.955612269	0.002911678
CTB-191K22.5	RPL38	0.952929661	0.00327128
RP11-20I23.8	RPL38	0.924921279	0.008243619
CDC37L1-AS1	RPL38	0.948257936	0.003946599
RP5-1142A6.10	RPL38	0.929285022	0.007324103
RP11-556I13.1	RPL38	0.926336404	0.007939627
RP11-66D17.5	RPS15AP5	0.976511137	0.00082111
RP11-126K1.8	RPS15AP5	0.984888392	0.000340816
RP3-438O4.4	RPS15AP5	0.940782152	0.005156299
LL21NC02-21A1.1	PSME4	0.852474586	0.031040269
NUP50-AS1	RPS15AP5	0.977924159	0.000725635
PSMD5-AS1	RPS15AP5	0.960188099	0.002345931
AC087294.2	RPS15AP5	0.955505006	0.002925661
CTD-2531D15.5	DIP2A	-0.874380556	0.022679214
AP001062.8	RPS15AP5	0.972859641	0.001094903
PSMD5-AS1	DIP2A	0.898735571	0.01486252
AC087294.2	DIP2A	0.832304609	0.039824673
RP11-455F5.3	DIP2A	0.850893905	0.031691431
RP11-326C3.2	DIP2A	0.912375508	0.011180685
AP006621.8	DIP2A	0.90964034	0.011878415
JHDM1D-AS1	DIP2A	0.845807762	0.03382989
RP11-20I23.6	DIP2A	0.860548708	0.027814063
RP11-455F5.3	RPS15AP5	0.955103952	0.002978235
AC005786.7	DIP2A	0.814673194	0.048336418
AC005944.2	DIP2A	0.840701205	0.036042967
RP11-20I23.8	DIP2A	0.851518599	0.031433325
RP5-1142A6.10	DIP2A	0.856070735	0.029582657
RP11-556I13.1	DIP2A	0.845675012	0.033886585
RP11-326C3.2	RPS15AP5	0.918521582	0.009687642
CCDC144NL-AS1	AKT1S1	-0.821161736	0.045114784
CTA-315H11.2	AKT1S1	-0.911773199	0.011332575
AP006621.8	RPS15AP5	0.94966716	0.003736336
JHDM1D-AS1	RPS15AP5	0.943722729	0.004661578
RP11-20I23.6	RPS15AP5	0.941263127	0.005073709
AC005786.7	RPS15AP5	0.946944144	0.004147712
AC005944.2	RPS15AP5	0.980912267	0.000543035
CTB-191K22.5	RPS15AP5	0.987886102	0.000219231
RP11-20I23.8	RPS15AP5	0.946945043	0.004147572
CDC37L1-AS1	RPS15AP5	0.939508182	0.005378212
LL21NC02-21A1.1	RPS15AP5	0.937140748	0.005802741

RP5-1142A6.10	RPS15AP5	0.931108844	0.006955509
RP11-556I13.1	RPS15AP5	0.943383033	0.004717479
AC011558.5	RPS4Y1	-0.919041972	0.009565996
CTD-2139B15.2	RPS6KL1	0.958743437	0.002518044
LL21NC02-21A1.1	RRAGD	-0.931272892	0.00692281
RP11-118G23.2	RREB1	0.952674733	0.003306525
AC011558.5	RRM1	-0.980758331	0.000551801
AC011558.5	RRM2	-0.935843699	0.006042012
AC024028.1	RRM2B	0.944443927	0.00454398
RP11-498J9.2	RRM2B	0.99275535	7.85E-05
LL21NC02-21A1.1	AKT1S1	0.884224565	0.019330003
RP11-34P13.14	RRM2B	0.989627836	0.000160815
RP11-93O14.2	RRM2B	0.994317404	4.83E-05
RP11-485G7.6	RRM2B	0.957132003	0.002717109
RP11-78A19.3	RRM2B	0.992075281	9.40E-05
RP11-34P13.14	ST3GAL5	0.912523149	0.011143604
RP11-93O14.2	ST3GAL5	0.868639488	0.024750025
RP11-485G7.6	ST3GAL5	0.826752506	0.042422056
LA16c-359F1.1	RRM2B	0.936833363	0.005859018
RP11-78A19.3	ST3GAL5	0.882658295	0.01984577
Z69720.3	ST3GAL5	0.890437831	0.017348218
CCDC144NL-AS1	HAGH	-0.855436315	0.029837395
Z69720.3	RRM2B	0.987621553	0.000228891
AC024028.1	RTKN	0.945240351	0.004415827
RP11-498J9.2	RTKN	0.994142424	5.14E-05
RP11-34P13.14	RTKN	0.968410642	0.00148107
RP11-93O14.2	RTKN	0.983432012	0.000409473
RP11-485G7.6	RTKN	0.967361768	0.001580497
RP11-78A19.3	RTKN	0.977427505	0.000758526
Z69720.3	RTKN	0.981250938	0.000523996
RP11-498J9.2	RTN2	0.93029053	0.007119742
RP11-34P13.14	RTN2	0.922052716	0.008876873
RP11-93O14.2	RTN2	0.957218309	0.002706259
RP11-485G7.6	RTN2	0.938799408	0.005503655
RP11-78A19.3	RTN2	0.936409531	0.00593705
LA16c-359F1.1	RTN2	0.9231447	0.008633124
Z69720.3	RTN2	0.948843066	0.003858608
AC024028.1	RTN4RL2	0.941599025	0.005016418
RP11-498J9.2	RTN4RL2	0.99659312	1.74E-05
RP11-34P13.14	RTN4RL2	0.969279608	0.001401118
RP11-93O14.2	RTN4RL2	0.983194573	0.00042126
RP11-485G7.6	RTN4RL2	0.979395411	0.00063245
LL21NC02-21A1.1	HAGH	0.846178362	0.03367185
RP11-78A19.3	RTN4RL2	0.982518067	0.000455756
Z69720.3	RTN4RL2	0.987908643	0.000218418
RP11-767C1.1	RTP4	0.951818604	0.003426245
AC024028.1	RUNDC2C	0.957516135	0.002668979
RP11-498J9.2	RUNDC2C	0.998938439	1.69E-06
RP11-34P13.14	RUNDC2C	0.97004155	0.001332819
AC024028.1	PDE4D	0.887362276	0.018316353
RP11-93O14.2	RUNDC2C	0.978663277	0.000678027
AC011558.5	PDE4D	0.894705328	0.016046753
CCDC144NL-AS1	RALBP1	-0.88343566	0.019588974
RP11-485G7.6	RUNDC2C	0.972246509	0.001144696
RP11-78A19.3	RUNDC2C	0.978609298	0.000681449
Z69720.3	RUNDC2C	0.985880936	0.000297615
AC024028.1	RUNX1	0.980966041	0.000539989
RP11-498J9.2	RUNX1	0.970223026	0.001316801
RP11-34P13.14	RUNX1	0.98318433	0.000421773
RP11-93O14.2	RUNX1	0.959612416	0.002413796
RP11-473M20.11	RUNX1	0.949665847	0.003736529
RP11-78A19.3	RUNX1	0.96196121	0.002142904
Z69720.3	RUNX1	0.950804351	0.003570786

AC024028.1	RUNX3	0.999542419	3.14E-07
RP11-498J9.2	RUNX3	0.962666975	0.002064616
RP11-34P13.14	RUNX3	0.949753148	0.003723689
RP11-473M20.11	RUNX3	0.988461156	0.000198949
RP11-78A19.3	RUNX3	0.923529523	0.008548011
Z69720.3	RUNX3	0.935300829	0.006143559
CTD-2139B15.2	RUVBL2	0.91884759	0.009611347
RP5-1033H22.2	RYR3	0.940082657	0.005277578
RMRP	RALBP1	0.814251426	0.048549401
RP11-21J18.1	RYR3	0.960579333	0.002300354
RP11-298J23.8	RYR3	0.929206344	0.007340213
RP11-165D6.1	RYR3	0.962036719	0.00213446
CTD-2531D15.5	S100A3	0.928534273	0.007478525
RP11-770G2.2	S100A3	0.940203027	0.00525661
CTA-315H11.2	S100A9	-0.948325693	0.00393636
RP11-126K1.8	PDE7A	0.871026694	0.023878492
RP3-438O4.4	PDE7A	0.899306952	0.014698167
NUP50-AS1	PDE7A	0.87784926	0.021469911
PSMD5-AS1	S100A9	0.975624105	0.000884035
TOPORS-AS1	PDE7A	0.894728884	0.016039704
TOPORS-AS1	S100A9	0.921024963	0.009109299
AP001062.8	PDE7A	0.897774858	0.015140844
AC087294.2	S100A9	0.94052798	0.005200208
AP001062.8	S100A9	0.922505415	0.008775423
RP11-455F5.3	S100A9	0.94887111	0.003854415
RP11-326C3.2	S100A9	0.981519747	0.000509124
AP006621.8	S100A9	0.978611217	0.000681328
JHDM1D-AS1	S100A9	0.945137768	0.004432233
AC005786.7	PDE7A	0.915325615	0.01045108
AC005944.2	PDE7A	0.90239695	0.013824632
CTB-191K22.5	PDE7A	0.864996851	0.026108502
RP11-20I23.6	S100A9	0.963366547	0.001988434
CDC37L1-AS1	PDE7A	0.910680822	0.011610583
RP11-160E2.19	S100A9	0.997386142	1.02E-05
AC005786.7	S100A9	0.944194968	0.004584408
AC005944.2	S100A9	0.954888821	0.003006627
RP11-20I23.8	S100A9	0.950507594	0.003613632
RP11-498J9.2	ABCG1	0.885632149	0.018872042
RP11-34P13.14	ABCG1	0.845524633	0.033950864
RP11-93O14.2	ABCG1	0.820494463	0.045441322
RP5-1142A6.10	S100A9	0.969429687	0.001387531
RP11-78A19.3	ABCG1	0.846283689	0.033626998
Z69720.3	ABCG1	0.825493055	0.043021909
CCDC144NL-AS1	STMN3	-0.894606694	0.016076282
RP11-556I13.1	S100A9	0.945045481	0.004447017
RP11-66D17.5	STMN3	0.839803126	0.036438988
RP11-126K1.8	STMN3	0.886481805	0.018598152
AC011558.5	S100A9	0.941893689	0.004966422
NUP50-AS1	STMN3	0.906630704	0.012669749
CTA-315H11.2	S100B	-0.92448642	0.00833815
PSMD5-AS1	S100B	0.957677485	0.002648889
RP11-326C3.2	S100B	0.955244502	0.002959758
AP006621.8	S100B	0.958864579	0.002503381
RP11-20I23.6	S100B	0.931771507	0.006823885
RP11-160E2.19	S100B	0.987603079	0.000229573
AC005944.2	S100B	0.942013129	0.004946226
RP5-1142A6.10	S100B	0.942588939	0.004849431
AC011558.5	S100B	0.950053249	0.003679716
PSMD5-AS1	S100P	0.918825315	0.009616551
RP11-326C3.2	S100P	0.938434856	0.005568726
AP006621.8	S100P	0.921443783	0.009014231
CTB-191K22.5	STMN3	0.894663045	0.016059408
RP11-20I23.6	S100P	0.926487215	0.007907558

RP11-160E2.19	S100P	0.971358147	0.001218785
AC005786.7	S100P	0.917743927	0.009870818
RP5-1142A6.10	S100P	0.950578363	0.003603391
AC011558.5	S100P	0.963063396	0.002021273
AC024028.1	S100Z	0.971867733	0.001176004
RP11-473M20.11	S100Z	0.995828744	2.61E-05
AC024028.1	S1PR5	0.964355341	0.001883169
RP11-498J9.2	S1PR5	1	0
RP11-485G7.6	TP53I11	0.906158734	0.012796083
RP11-34P13.14	S1PR5	0.978552256	0.000685076
RP11-93O14.2	S1PR5	0.982998398	0.000431125
RP11-485G7.6	S1PR5	0.965304842	0.001784749
RP11-78A19.3	S1PR5	0.983256999	0.000418145
Z69720.3	S1PR5	0.986539728	0.000270549
CTA-315H11.2	SACS	0.942485664	0.004866722
RP11-93O14.2	SLC37A1	0.914878483	0.010560128
RP11-485G7.6	SLC37A1	0.88576562	0.01882889
RP11-126K1.8	SACS	-0.919317866	0.009501806
PSMD5-AS1	SACS	-0.96682792	0.001632329
RP11-455F5.3	SACS	-0.91993582	0.009358793
CCDC144NL-AS1	TCF7	-0.880565671	0.020544999
RP11-326C3.2	SACS	-0.934075191	0.006375863
AP006621.8	SACS	-0.963549281	0.001968767
RP11-160E2.19	SACS	-0.939903235	0.005308908
AC005944.2	SACS	-0.954958968	0.002997355
AC024028.1	SAG	0.963934572	0.001927617
RP11-498J9.2	SAG	0.999890595	1.80E-08
RP11-34P13.14	SAG	0.981038566	0.000535895
RP11-93O14.2	SAG	0.983633254	0.000399613
RP11-485G7.6	SAG	0.963178118	0.002008814
RP11-78A19.3	SAG	0.983039511	0.000429048
Z69720.3	SAG	0.988441551	0.000199625
RP3-337H4.8	SAMD12	0.920092731	0.009322647
AC024028.1	SAMD14	0.961942462	0.002145004
RP11-498J9.2	SAMD14	0.999856433	3.09E-08
RP11-34P13.14	SAMD14	0.975756103	0.000874525
RP11-93O14.2	SAMD14	0.983178419	0.000422068
RP11-485G7.6	SAMD14	0.968205464	0.001500268
RP11-78A19.3	SAMD14	0.983127429	0.000424624
Z69720.3	SAMD14	0.985304262	0.00032236
CTA-315H11.2	SAMD3	-0.969451169	0.001385592
RP11-126K1.8	SAMD3	0.942931342	0.004792316
RP3-438O4.4	SAMD3	0.964730061	0.001844016
AC011558.5	TCF7	0.836924042	0.03772225
CCDC144NL-AS1	APBB1IP	-0.892416543	0.016738704
NUP50-AS1	SAMD3	0.954825153	0.003015055
RP11-126K1.8	APBB1IP	0.860120671	0.027980885
RP3-438O4.4	APBB1IP	0.892529171	0.016704326
NUP50-AS1	APBB1IP	0.882060507	0.020044333
PSMD5-AS1	SAMD3	0.987437481	0.000235734
TOPORS-AS1	APBB1IP	0.909510095	0.01191215
TOPORS-AS1	SAMD3	0.960705613	0.002285737
AP001062.8	APBB1IP	0.89346023	0.016421432
AC087294.2	SAMD3	0.981896703	0.000488628
AP001062.8	SAMD3	0.965707679	0.001743782
RP11-455F5.3	SAMD3	0.986485061	0.000272746
RP11-326C3.2	SAMD3	0.999884075	2.02E-08
AP006621.8	SAMD3	0.992224788	9.04E-05
JHDM1D-AS1	SAMD3	0.987036352	0.000250995
RP11-20I23.6	SAMD3	0.991833962	9.98E-05
AC005944.2	APBB1IP	0.916262892	0.010224277
CTB-191K22.5	APBB1IP	0.866660211	0.025483892
RP11-160E2.19	SAMD3	0.982717873	0.000445427

CDC37L1-AS1	APBB1IP	0.90141307	0.014099972
AC005786.7	SAMD3	0.976495422	0.000822205
AC005944.2	SAMD3	0.960029439	0.002364539
CTB-191K22.5	SAMD3	0.944903438	0.00446982
CCDC144NL-AS1	POMT1	-0.849157311	0.032414174
CTA-315H11.2	POMT1	-0.912065763	0.011258672
RP3-438O4.4	POMT1	0.820281747	0.045545647
PSMD5-AS1	POMT1	0.901771225	0.013999439
TOPORS-AS1	POMT1	0.847701668	0.03302591
AC087294.2	POMT1	0.855183602	0.029939154
AP001062.8	POMT1	0.819659518	0.045851456
RP11-455F5.3	POMT1	0.866310992	0.025614431
RP11-20I23.8	SAMD3	0.988722204	0.000190066
AP006621.8	POMT1	0.910488647	0.011659828
JHDM1D-AS1	POMT1	0.868251441	0.024893099
RP11-20I23.6	POMT1	0.895478981	0.015816038
CDC37L1-AS1	SAMD3	0.969909027	0.001344577
AC005786.7	POMT1	0.866080496	0.025700765
AC005944.2	POMT1	0.866395859	0.025582678
RP11-20I23.8	POMT1	0.87427882	0.02271516
CDC37L1-AS1	POMT1	0.833451295	0.039297804
RP5-1142A6.10	POMT1	0.908856884	0.012082035
RP11-556I13.1	POMT1	0.868329193	0.0248644
RP5-1142A6.10	SAMD3	0.986506966	0.000271865
CTA-315H11.2	GSK3A	-0.895009647	0.015955808
RP11-556I13.1	SAMD3	0.987035111	0.000251043
RP4-784A16.3	SAMD4A	0.940477605	0.005208932
RP11-77G23.2	SAMD4A	0.965375457	0.001777533
CTA-315H11.2	SAMHD1	-0.963678419	0.001954927
RP11-66D17.5	SAMHD1	0.91830075	0.009739489
RP11-126K1.8	SAMHD1	0.950924324	0.003553536
RP3-438O4.4	SAMHD1	0.97633724	0.000833265
NUP50-AS1	SAMHD1	0.965099926	0.001805768
PSMD5-AS1	SAMHD1	0.987259687	0.000242439
TOPORS-AS1	SAMHD1	0.970403469	0.001300969
AC087294.2	SAMHD1	0.989012772	0.000180416
AP001062.8	SAMHD1	0.974627882	0.00095745
RP11-455F5.3	SAMHD1	0.991832911	9.98E-05
RP11-160E2.19	GSK3A	0.898369824	0.014968186
RP11-326C3.2	SAMHD1	0.998995043	1.51E-06
AP006621.8	SAMHD1	0.991145203	0.000117264
JHDM1D-AS1	SAMHD1	0.993195216	6.93E-05
RP11-20I23.6	SAMHD1	0.996370709	1.97E-05
RP11-160E2.19	SAMHD1	0.975128349	0.000920206
LL21NC02-21A1.1	GSK3A	0.893305401	0.016468315
AC005786.7	SAMHD1	0.984671705	0.000350634
AC005944.2	SAMHD1	0.964183756	0.001901232
RP11-118G23.2	CCS	-0.838174781	0.037162211
RP11-156P1.3	CCS	-0.823738341	0.043864195
CTC-1337H24.3	CCS	0.816798921	0.047269597
RP11-66D17.5	CCS	0.889608085	0.017606924
RP11-126K1.8	CCS	0.884071994	0.019379958
NUP50-AS1	CCS	0.850660308	0.031788203
AP001062.8	CCS	0.833834327	0.039122543
AC005944.2	CCS	0.839997123	0.03635327
CTB-191K22.5	CCS	0.872041687	0.023512443
CTB-191K22.5	SAMHD1	0.956166242	0.002839986
AC024028.1	MYO15B	0.811423876	0.049988458
RP11-473M20.11	MYO15B	0.887312376	0.018332269
CTD-2139B15.2	MYO15B	-0.831111215	0.040376489
RP11-160E2.19	MYO15B	0.843518797	0.034813722
RP11-20I23.8	SAMHD1	0.994352607	4.77E-05
CDC37L1-AS1	SAMHD1	0.980946094	0.000541118

RP5-1142A6.10	SAMHD1	0.990431504	0.000136896
RP11-556I13.1	SAMHD1	0.9932123	6.90E-05
AC024028.1	SAMSN1	0.936044252	0.006004706
RP11-485G7.6	POLR2J3	0.908020015	0.012301387
RP11-498J9.2	SAMSN1	0.972871933	0.001093916
RP11-34P13.14	SAMSN1	0.995940275	2.47E-05
RP11-93O14.2	SAMSN1	0.974219571	0.000988379
CCDC144NL-AS1	IL7R	-0.891348885	0.01706628
RP11-78A19.3	SAMSN1	0.962658261	0.002065573
Z69720.3	SAMSN1	0.986147754	0.000286498
CTA-315H11.2	SARDH	-0.96958137	0.001373866
RP3-438O4.4	SARDH	0.932237487	0.006732063
NUP50-AS1	SARDH	0.925282006	0.008165601
PSMD5-AS1	SARDH	0.979149228	0.0006476
TOPORS-AS1	SARDH	0.935289266	0.006145731
AC087294.2	SARDH	0.957565128	0.002662871
AP001062.8	SARDH	0.936776121	0.005869527
RP11-455F5.3	SARDH	0.965057694	0.001810115
RP11-326C3.2	SARDH	0.99339281	6.53E-05
AP006621.8	SARDH	0.984926356	0.00033911
JHDM1D-AS1	SARDH	0.96464014	0.001853374
RP11-20I23.6	SARDH	0.975605037	0.000885412
RP11-160E2.19	SARDH	0.995774956	2.67E-05
AC005786.7	SARDH	0.954530397	0.003054223
AC005944.2	SARDH	0.948096927	0.003970982
RP11-20I23.8	SARDH	0.967884009	0.001530593
CDC37L1-AS1	SARDH	0.939650337	0.005353223
RP5-1142A6.10	SARDH	0.97461254	0.000958603
RP11-556I13.1	SARDH	0.964624055	0.001855051
AC011558.5	SARDH	0.925675859	0.008080831
AC011558.5	IL7R	0.859058607	0.028396851
CTA-315H11.2	SASH3	-0.950766744	0.003576202
RP11-126K1.8	SASH3	0.921854102	0.008921562
RP3-438O4.4	SASH3	0.941767598	0.004987786
RP11-93O14.2	DBN1	0.915773441	0.010342414
RP11-485G7.6	DBN1	0.883435839	0.019588915
NUP50-AS1	SASH3	0.939550748	0.005370724
PSMD5-AS1	SASH3	0.980776037	0.000550789
TOPORS-AS1	SASH3	0.953076325	0.003251088
AC024028.1	SOX4	0.868855354	0.024670604
AC087294.2	SASH3	0.964657544	0.001851561
AC011558.5	SOX4	0.911809887	0.011323295
AP001062.8	SASH3	0.947195711	0.004108823
RP11-498J9.2	MDK	0.867680804	0.025104208
RP11-34P13.14	MDK	0.841994701	0.035476157
RP11-455F5.3	SASH3	0.970427785	0.001298843
RP11-78A19.3	MDK	0.811480193	0.049959606
LLNLR-284B4.1	MDK	0.820803166	0.045290118
Z69720.3	MDK	0.817051131	0.047143758
RP11-326C3.2	SASH3	0.993618455	6.10E-05
AP006621.8	SASH3	0.985186508	0.000327534
RP11-34P13.14	IRS2	0.906171479	0.012792664
RP11-93O14.2	IRS2	0.867974118	0.02499559
RP11-485G7.6	IRS2	0.833620355	0.039220403
JHDM1D-AS1	SASH3	0.969318034	0.001397633
RP11-78A19.3	IRS2	0.887702596	0.018207986
Z69720.3	IRS2	0.883264108	0.019645507
RP11-20I23.6	SASH3	0.982016876	0.000482181
RP11-160E2.19	SASH3	0.991504181	0.000107962
AC005786.7	SASH3	0.966829433	0.001632181
RP11-93O14.2	MCTP1	0.896470412	0.015522729
RP11-485G7.6	MCTP1	0.840224714	0.03625283
AC005944.2	SASH3	0.956184771	0.002837604

RP11-78A19.3	MCTP1	0.902985323	0.013661228
CTB-191K22.5	SASH3	0.926548213	0.007894605
CCDC144NL-AS1	PHF11	-0.899154143	0.014742035
RP11-20I23.8	SASH3	0.972639483	0.001112656
RP11-66D17.5	PHF11	0.901861374	0.013974189
CDC37L1-AS1	SASH3	0.945774685	0.004330856
RP5-1142A6.10	SASH3	0.984820793	0.000343864
RP11-556I13.1	SASH3	0.969288409	0.001400319
AC011558.5	SASH3	0.918778024	0.009627603
CCDC144NL-AS1	SATB1	-0.933812484	0.006426204
CTA-315H11.2	SATB1	-0.975459295	0.00089598
PSMD5-AS1	SATB1	0.958316767	0.002570026
AC087294.2	SATB1	0.92852478	0.007480488
RP11-455F5.3	SATB1	0.939045747	0.005459896
RP11-326C3.2	SATB1	0.97933552	0.000636119
AP006621.8	SATB1	0.967442377	0.001572743
JHDM1D-AS1	SATB1	0.939583042	0.005365046
RP11-20I23.6	SATB1	0.950109665	0.003671479
RP11-160E2.19	SATB1	0.991224706	0.000115171
AC005786.7	SATB1	0.920112515	0.009318094
RP11-20I23.8	SATB1	0.942755307	0.004821638
RP5-1142A6.10	SATB1	0.94650701	0.004215715
RP11-556I13.1	SATB1	0.939592367	0.005363407
AC011558.5	SATB1	0.937486319	0.00573979
CTD-2541M15.3	SAV1	0.934072132	0.006376448
AC011558.5	PHF11	0.886085964	0.018725514
AC024028.1	SBF2	0.957950427	0.002615075
RP11-498J9.2	TTC7A	0.856140143	0.029554851
RP11-473M20.11	SBF2	0.983466446	0.000407778
LLNLR-284B4.1	TTC7A	0.896010353	0.015658506
CTA-315H11.2	SBK1	-0.96260323	0.002071628
RP11-66D17.5	SBK1	0.923777042	0.008493484
RP11-126K1.8	SBK1	0.957782828	0.002635813
RP11-93O14.2	SH3TC1	0.913335156	0.010940732
RP11-485G7.6	SH3TC1	0.881698628	0.020164995
RP3-438O4.4	SBK1	0.978355878	0.000697632
NUP50-AS1	SBK1	0.969444128	0.001386228
PSMD5-AS1	SBK1	0.989336079	0.000169972
AC024028.1	EFEMP2	0.821216483	0.045088041
RP11-473M20.11	EFEMP2	0.899754271	0.014570114
RP11-160E2.19	EFEMP2	0.829651622	0.041056222
TOPORS-AS1	SBK1	0.971279061	0.001225493
CCDC144NL-AS1	PIK3R5	-0.864083244	0.026454627
CTA-315H11.2	PIK3R5	-0.895491658	0.015812271
CTD-2541M15.3	PIK3R5	-0.811509693	0.049944496
PSMD5-AS1	PIK3R5	0.881242181	0.020317684
AC087294.2	PIK3R5	0.813063859	0.049151428
RP11-455F5.3	PIK3R5	0.828731563	0.041487418
RP11-326C3.2	PIK3R5	0.901064898	0.014198036
AP006621.8	PIK3R5	0.889779323	0.017553383
JHDM1D-AS1	PIK3R5	0.825457026	0.043039127
RP11-20I23.6	PIK3R5	0.855100255	0.029972751
AC087294.2	SBK1	0.991424548	0.000109992
AC005786.7	PIK3R5	0.818640492	0.046354334
AC005944.2	PIK3R5	0.841204105	0.035822095
RP11-20I23.8	PIK3R5	0.833220178	0.039403731
RP5-1142A6.10	PIK3R5	0.868445961	0.02482133
RP11-556I13.1	PIK3R5	0.825400596	0.043066101
AP001062.8	SBK1	0.978832059	0.00066738
RP11-455F5.3	SBK1	0.994274966	4.91E-05
RP11-326C3.2	SBK1	0.998758421	2.31E-06
RP11-34P13.14	CHN2	0.913996383	0.010776865
AP006621.8	SBK1	0.992858232	7.63E-05

JHDM1D-AS1	SBK1	0.994801534	4.05E-05
RP11-473M20.11	CHN2	0.878225723	0.021340568
RP11-20I23.6	SBK1	0.997015923	1.33E-05
LA16c-359F1.1	CHN2	0.859703331	0.028143993
RP11-160E2.19	SBK1	0.971738218	0.001186806
RP11-473M20.11	NPDC1	0.834882907	0.038644634
CCDC144NL-AS1	NPDC1	-0.821447305	0.044975372
CTA-315H11.2	NPDC1	-0.829911793	0.040934671
CTD-2541M15.3	NPDC1	-0.814651101	0.048347564
RP11-326C3.2	NPDC1	0.812997497	0.049185171
RP11-160E2.19	NPDC1	0.901592511	0.01404956
AC005786.7	SBK1	0.985814833	0.000300401
AC005944.2	SBK1	0.966619774	0.001652762
RP11-498J9.2	PDE4B	0.899014016	0.014782317
RP11-34P13.14	PDE4B	0.882410837	0.019927852
RP11-93O14.2	PDE4B	0.83195101	0.039987804
CTB-191K22.5	SBK1	0.960790841	0.002275898
RP11-78A19.3	PDE4B	0.848491783	0.032693194
Z69720.3	PDE4B	0.857932784	0.028840963
RP11-20I23.8	SBK1	0.995906919	2.51E-05
CDC37L1-AS1	SBK1	0.982071895	0.000479244
RP5-1142A6.10	SBK1	0.990243114	0.000142331
RP11-556I13.1	SBK1	0.994794825	4.06E-05
RP11-498J9.2	SC5DL	0.976801834	0.00080099
RP11-34P13.14	SC5DL	0.981569246	0.000506409
RP11-93O14.2	SC5DL	0.992116929	9.30E-05
RP11-680G24.6	NOD2	0.812744137	0.049314096
LA16c-359F1.1	NOD2	0.866800707	0.025431463
RP11-485G7.6	SC5DL	0.949989674	0.00368901
RP11-78A19.3	SC5DL	0.982625868	0.000450168
RP11-680G24.6	SC5DL	0.934543213	0.006286659
LA16c-359F1.1	SC5DL	0.949394988	0.003776504
RP11-93O14.2	DOCK10	0.889511613	0.017637122
RP11-485G7.6	DOCK10	0.831649795	0.040127014
Z69720.3	SC5DL	0.983679561	0.000397362
RP11-78A19.3	DOCK10	0.898800341	0.014843845
Z69720.3	DOCK10	0.911652556	0.011363119
AC024028.1	SCAMP5	0.944865971	0.004475845
RP11-498J9.2	SCAMP5	0.993803167	5.75E-05
RP11-34P13.14	SCAMP5	0.956615564	0.002782485
RP11-93O14.2	LASS4	0.884264395	0.019316972
RP11-485G7.6	LASS4	0.844915781	0.034211698
RP11-93O14.2	SCAMP5	0.976007441	0.000856559
RP11-78A19.3	LASS4	0.891573622	0.016997074
Z69720.3	LASS4	0.901889936	0.013966194
CTA-315H11.2	SPSB3	-0.89452451	0.016100907
RP11-485G7.6	SCAMP5	0.975475315	0.000894815
RP11-78A19.3	SCAMP5	0.972756051	0.001103238
Z69720.3	SCAMP5	0.976801891	0.000800986
RP11-66D17.5	SCD	-0.977288143	0.000767885
RP11-126K1.8	SCD	-0.929610509	0.007257642
RP3-438O4.4	SCD	-0.938133859	0.005622735
NUP50-AS1	SCD	-0.966716189	0.001643282
PSMD5-AS1	SCD	-0.918370483	0.009723103
TOPORS-AS1	SCD	-0.952625412	0.003313365
AC087294.2	SCD	-0.936524322	0.005915866
AP001062.8	SCD	-0.948411157	0.003923464
RP11-455F5.3	SCD	-0.928370844	0.007512349
JHDM1D-AS1	SCD	-0.923799111	0.00848863
RP11-160E2.19	SPSB3	0.896006653	0.0156596
RP11-20I23.6	SCD	-0.936513367	0.005917886
AC005786.7	SCD	-0.961104016	0.002239924
AC005944.2	SCD	-0.959715796	0.002401539

CTB-191K22.5	SCD	-0.966176621	0.001696684
RP11-20I23.8	SCD	-0.927259261	0.007744379
LL21NC02-21A1.1	SPSB3	0.913654178	0.010861521
CDC37L1-AS1	SCD	-0.932140409	0.006751142
LL21NC02-21A1.1	SCD	-0.91979296	0.009391761
CCDC144NL-AS1	MXD4	-0.863124922	0.026820018
RP5-1142A6.10	SCD	-0.949052162	0.003827401
RP11-556I13.1	SCD	-0.923674386	0.008516078
AC024028.1	SCGN	0.963385628	0.001986376
RP11-498J9.2	SCGN	0.999984717	3.50E-10
RP11-34P13.14	SCGN	0.978306395	0.000700814
RP11-93O14.2	SCGN	0.98382592	0.000390286
RP11-485G7.6	SCGN	0.966318162	0.001682594
RP11-78A19.3	SCGN	0.984155367	0.00037459
Z69720.3	SCGN	0.986157624	0.000286091
RP11-156P1.3	SCMH1	0.945764089	0.004332533
CTA-315H11.2	SCML4	-0.961564683	0.002187521
RP11-66D17.5	SCML4	0.927268315	0.007742475
RP11-126K1.8	SCML4	0.960350617	0.002326944
RP3-438O4.4	SCML4	0.980527456	0.000565078
NUP50-AS1	SCML4	0.971590083	0.00119922
PSMD5-AS1	SCML4	0.989229989	0.000173365
TOPORS-AS1	SCML4	0.972419556	0.001130531
AC087294.2	SCML4	0.992824377	7.70E-05
AP001062.8	SCML4	0.980889893	0.000544305
RP11-455F5.3	SCML4	0.995391014	3.18E-05
LL21NC02-21A1.1	MXD4	0.826543109	0.042521515
RP11-326C3.2	SCML4	0.998108044	5.37E-06
AP006621.8	SCML4	0.992579706	8.24E-05
JHDM1D-AS1	SCML4	0.995927834	2.48E-05
RP11-20I23.6	SCML4	0.997418432	9.99E-06
RP11-160E2.19	SCML4	0.968951463	0.001431052
AC005786.7	SCML4	0.986819117	0.000259459
AC005944.2	SCML4	0.96704604	0.001611052
CTB-191K22.5	SCML4	0.963222915	0.002003959
RP11-20I23.8	SCML4	0.996882434	1.46E-05
CDC37L1-AS1	SCML4	0.984010616	0.000381447
RP5-1142A6.10	SCML4	0.990091176	0.000146791
RP11-556I13.1	SCML4	0.995920065	2.49E-05
AC024028.1	SCRN1	0.939725242	0.005340079
RP11-498J9.2	SCRN1	0.992634295	8.12E-05
RP11-34P13.14	SCRN1	0.959328079	0.002447668
RP11-93O14.2	SCRN1	0.984231818	0.000370993
RP11-485G7.6	SCRN1	0.984392284	0.0003635
RP11-78A19.3	SCRN1	0.989832317	0.000154547
LA16c-359F1.1	SCRN1	0.926081442	0.007993986
Z69720.3	SCRN1	0.971384275	0.001216573
AC024028.1	SDC2	0.923404837	0.008575544
RP11-498J9.2	SDC2	0.982127877	0.000476265
RP11-34P13.14	SDC2	0.93531815	0.006140307
RP11-93O14.2	SDC2	0.952305596	0.003357888
RP11-485G7.6	SDC2	0.98048985	0.000567256
RP11-78A19.3	SDC2	0.954380496	0.003074239
CTD-2139B15.2	AKAP13	-0.828676781	0.041513159
AC011558.5	AKAP13	0.844555784	0.034366365
CTA-315H11.2	S100P	-0.861506027	0.027442673
RP11-126K1.8	S100P	0.825955815	0.042801048
RP3-438O4.4	S100P	0.865127396	0.026059221
NUP50-AS1	S100P	0.870761193	0.023974687
Z69720.3	SDC2	0.97390899	0.001012231
TOPORS-AS1	S100P	0.912583067	0.011128572
AC087294.2	S100P	0.890582726	0.01730323
AP001062.8	S100P	0.867919742	0.025015709

RP11-455F5.3	S100P	0.895315853	0.015864551
CTA-315H11.2	SDK2	-0.969210424	0.001407403
RP3-438O4.4	SDK2	0.926090991	0.007991947
JHDM1D-AS1	S100P	0.894866992	0.015998409
NUP50-AS1	SDK2	0.919802552	0.009389546
PSMD5-AS1	SDK2	0.977139744	0.000777914
TOPORS-AS1	SDK2	0.92984951	0.007209028
AC005944.2	S100P	0.910181086	0.011738852
CTB-191K22.5	S100P	0.852344788	0.031093498
RP11-20I23.8	S100P	0.9012182	0.014154817
CDC37L1-AS1	S100P	0.868602948	0.024763481
AC087294.2	SDK2	0.952916146	0.003273144
RP11-556I13.1	S100P	0.89489199	0.01599094
AP001062.8	SDK2	0.931589878	0.006859839
CCDC144NL-AS1	CD247	-0.898150861	0.015031618
RP11-455F5.3	SDK2	0.960971527	0.002255108
RP11-66D17.5	CD247	0.910617152	0.011626887
RP11-326C3.2	SDK2	0.991416407	0.000110201
AP006621.8	SDK2	0.983122692	0.000424862
JHDM1D-AS1	SDK2	0.960260242	0.002337493
RP11-20I23.6	SDK2	0.971906746	0.00117276
RP11-160E2.19	SDK2	0.996387464	1.96E-05
AC005786.7	SDK2	0.949728934	0.003727248
AC005944.2	SDK2	0.945061958	0.004444376
RP11-20I23.8	SDK2	0.963719587	0.001950525
CDC37L1-AS1	SDK2	0.933745142	0.00643914
RP5-1142A6.10	SDK2	0.971269042	0.001226344
RP11-556I13.1	SDK2	0.960237634	0.002340136
AC011558.5	SDK2	0.929891597	0.007200484
CTA-315H11.2	SDR42E1	-0.952675898	0.003306363
RP11-66D17.5	SDR42E1	0.942871518	0.004802271
RP11-126K1.8	SDR42E1	0.968967414	0.00142959
RP3-438O4.4	SDR42E1	0.98964287	0.00016035
NUP50-AS1	SDR42E1	0.980134618	0.00058803
PSMD5-AS1	SDR42E1	0.986112975	0.000287935
TOPORS-AS1	SDR42E1	0.978100293	0.000714144
AC087294.2	SDR42E1	0.997573565	8.82E-06
AC011558.5	CD247	0.87856078	0.021225765
CCDC144NL-AS1	AOAH	-0.871801804	0.023598712
CTA-315H11.2	AOAH	-0.903213444	0.013598126
CTD-2541M15.3	AOAH	-0.81311987	0.049122957
PSMD5-AS1	AOAH	0.891269766	0.017090677
AC087294.2	AOAH	0.822723418	0.044354845
RP11-455F5.3	AOAH	0.83842263	0.0370517
RP11-326C3.2	AOAH	0.907716752	0.012381346
AP006621.8	AOAH	0.899142978	0.014745243
JHDM1D-AS1	AOAH	0.834282127	0.038918114
RP11-20I23.6	AOAH	0.862820526	0.026936576
AP001062.8	SDR42E1	0.988453744	0.000199204
AC005786.7	AOAH	0.826693076	0.042450273
AC005944.2	AOAH	0.852493342	0.031032581
RP11-20I23.8	AOAH	0.842073455	0.035441784
RP5-1142A6.10	AOAH	0.874876643	0.022504325
RP11-556I13.1	AOAH	0.834199904	0.038955612
RP11-455F5.3	SDR42E1	0.998468786	3.52E-06
RP3-339A18.6	PPOX	-0.853013513	0.030819718
RP3-337H4.8	PPOX	0.89801952	0.015069728
CTC-1337H24.3	PPOX	0.834364266	0.03888067
RP11-326C3.2	SDR42E1	0.993152852	7.02E-05
RP11-21J18.1	STAG2	0.870738841	0.023982794
RP11-298J23.8	STAG2	0.912159912	0.01123494
AP006621.8	SDR42E1	0.988545136	0.000196069
CTD-2621I17.8	STAG2	0.852587356	0.030994057

CCDC144NL-AS1	ARHGAP25	-0.880577489	0.020541018
JHDM1D-AS1	SDR42E1	0.999389285	5.59E-07
RP3-438O4.4	ARHGAP25	0.851046325	0.031628364
NUP50-AS1	ARHGAP25	0.82308119	0.044181595
PSMD5-AS1	ARHGAP25	0.912233471	0.011216414
TOPORS-AS1	ARHGAP25	0.855346611	0.029873497
AC087294.2	ARHGAP25	0.878618556	0.021205998
AP001062.8	ARHGAP25	0.840938325	0.035938745
RP11-455F5.3	ARHGAP25	0.888971125	0.017806767
RP11-20I23.6	SDR42E1	0.998106199	5.38E-06
RP11-160E2.19	SDR42E1	0.954707246	0.003030693
JHDM1D-AS1	ARHGAP25	0.894614032	0.016074084
RP11-20I23.6	ARHGAP25	0.91068479	0.011609567
AC005786.7	SDR42E1	0.99108287	0.000118918
AC005786.7	ARHGAP25	0.877423116	0.021616774
AC005944.2	ARHGAP25	0.867406595	0.025205954
RP11-20I23.8	ARHGAP25	0.89819551	0.015018673
CDC37L1-AS1	ARHGAP25	0.867928576	0.02501244
RP5-1142A6.10	ARHGAP25	0.911604958	0.01137518
RP11-556I13.1	ARHGAP25	0.894767651	0.016028108
AC005944.2	SDR42E1	0.967547175	0.001562689
CCDC144NL-AS1	NCF1	-0.857592651	0.028975779
CTB-191K22.5	SDR42E1	0.972920396	0.001090029
RP11-66D17.5	NCF1	0.914043501	0.010765234
RP11-20I23.8	SDR42E1	0.999659836	1.74E-07
CDC37L1-AS1	SDR42E1	0.992040104	9.48E-05
RP5-1142A6.10	SDR42E1	0.989053797	0.000179073
RP11-556I13.1	SDR42E1	0.999386681	5.64E-07
CTA-315H11.2	SEC14L1	-0.966906693	0.001624629
RP11-66D17.5	SEC14L1	0.927229663	0.007750605
RP11-126K1.8	SEC14L1	0.969751449	0.001358624
RP3-438O4.4	SEC14L1	0.977368391	0.000762489
NUP50-AS1	SEC14L1	0.972156295	0.001152115
PSMD5-AS1	SEC14L1	0.991650305	0.000104285
TOPORS-AS1	SEC14L1	0.962543447	0.002078214
AC087294.2	SEC14L1	0.992401654	8.64E-05
AP001062.8	SEC14L1	0.983127319	0.000424629
RP11-455F5.3	SEC14L1	0.996107807	2.27E-05
RP11-326C3.2	SEC14L1	0.995429155	3.13E-05
AP006621.8	SEC14L1	0.994845511	3.98E-05
JHDM1D-AS1	SEC14L1	0.994782426	4.08E-05
RP11-20I23.6	SEC14L1	0.993234307	6.85E-05
RP11-160E2.19	SEC14L1	0.96156021	0.002188027
AC005786.7	SEC14L1	0.980554479	0.000563516
AC011558.5	NCF1	0.898652911	0.014886369
AC005944.2	SEC14L1	0.96677629	0.001637386
CTD-2531D15.5	GPCPD1	-0.877398781	0.021625175
RP11-156P1.3	GPCPD1	-0.831019029	0.040419264
CTB-191K22.5	SEC14L1	0.96531331	0.001783883
RP11-126K1.8	GPCPD1	0.886560419	0.018572907
RP3-438O4.4	GPCPD1	0.832177717	0.039883178
NUP50-AS1	GPCPD1	0.856227337	0.029519936
RP11-20I23.8	SEC14L1	0.995643101	2.84E-05
TOPORS-AS1	GPCPD1	0.819867374	0.045749194
AC087294.2	GPCPD1	0.881284241	0.020303591
AP001062.8	GPCPD1	0.873314616	0.023057181
RP11-455F5.3	GPCPD1	0.897299544	0.015279465
CDC37L1-AS1	SEC14L1	0.980385315	0.000573331
RP5-1142A6.10	SEC14L1	0.982052676	0.000480269
JHDM1D-AS1	GPCPD1	0.884079555	0.019377481
RP11-20I23.6	GPCPD1	0.888679093	0.017898753
RP11-556I13.1	SEC14L1	0.994719265	4.18E-05
AC005786.7	GPCPD1	0.855121597	0.029964146

AC005944.2	GPCPD1	0.88996687	0.017494833
CTB-191K22.5	GPCPD1	0.848636505	0.032632424
RP11-20I23.8	GPCPD1	0.888937465	0.017817358
CDC37L1-AS1	GPCPD1	0.835011284	0.038586313
RP5-1142A6.10	GPCPD1	0.877285532	0.021664292
RP11-556I13.1	GPCPD1	0.883713422	0.019497606
AC011558.5	GPCPD1	0.831039108	0.040409945
RP11-473M20.11	SULF2	0.827929579	0.041864994
LLNLR-284B4.1	SULF2	0.859043628	0.028402738
CTD-2541M15.3	SULF2	-0.834586722	0.038779347
RP11-160E2.19	SULF2	0.888620134	0.017917352
RP11-66D17.5	SEC14L4	0.93933434	0.005408849
RP11-126K1.8	SEC14L4	0.933015494	0.006580109
CTB-191K22.5	SEC14L4	0.918696246	0.00964673
RP11-66D17.5	CHD2	0.86260843	0.027017933
RP11-498J9.2	SEC23A	0.940304551	0.005238956
RP11-34P13.14	SEC23A	0.972150154	0.00115262
RP11-93O14.2	SEC23A	0.974529178	0.000964882
RP11-78A19.3	SEC23A	0.959026591	0.002483837
RP11-680G24.6	SEC23A	0.959191862	0.002463977
LA16c-359F1.1	SEC23A	0.941343901	0.005059903
Z69720.3	SEC23A	0.955683257	0.002902442
CTA-315H11.2	SEC31B	-0.968991698	0.001427365
RP11-66D17.5	SEC31B	0.923555175	0.008542352
RP11-126K1.8	SEC31B	0.961400472	0.00220613
RP3-438O4.4	SEC31B	0.981922905	0.000487218
NUP50-AS1	SEC31B	0.967764422	0.00154195
PSMD5-AS1	SEC31B	0.984824216	0.000343709
TOPORS-AS1	SEC31B	0.964944989	0.001821742
AC087294.2	SEC31B	0.992327794	8.81E-05
AP001062.8	SEC31B	0.980060494	0.000592412
RP11-455F5.3	SEC31B	0.994961561	3.80E-05
RP11-326C3.2	SEC31B	0.994590311	4.38E-05
AP006621.8	SEC31B	0.989084833	0.000178061
JHDM1D-AS1	SEC31B	0.996408821	1.93E-05
AC011558.5	CHD2	0.88011016	0.020698738
AC024028.1	TNFAIP2	0.856001794	0.029610289
RP11-20I23.6	SEC31B	0.993351898	6.61E-05
LLNLR-284B4.1	TNFAIP2	0.842495463	0.035257858
CTD-2541M15.3	TNFAIP2	-0.812493864	0.049441604
RP11-160E2.19	SEC31B	0.958883398	0.002501107
CCDC144NL-AS1	RCOR3	-0.893450489	0.01642438
AC005786.7	SEC31B	0.980778009	0.000550676
AC005944.2	SEC31B	0.958050431	0.002602739
CTB-191K22.5	SEC31B	0.960678766	0.002288841
RP11-20I23.8	SEC31B	0.996448031	1.89E-05
CDC37L1-AS1	SEC31B	0.986414522	0.000275594
RP5-1142A6.10	SEC31B	0.980941799	0.000541361
RP11-556I13.1	SEC31B	0.996416637	1.92E-05
CTA-315H11.2	SEC62	-0.946557664	0.004207807
RP11-66D17.5	SEC62	0.949597357	0.003746617
RP11-126K1.8	SEC62	0.973068191	0.001078216
RP3-438O4.4	SEC62	0.993404299	6.51E-05
NUP50-AS1	SEC62	0.983250679	0.00041846
PSMD5-AS1	SEC62	0.982460242	0.000458767
TOPORS-AS1	SEC62	0.979476197	0.000627517
AC087294.2	SEC62	0.998855279	1.96E-06
AP001062.8	SEC62	0.991420534	0.000110095
RP11-455F5.3	SEC62	0.998889282	1.85E-06
RP11-326C3.2	SEC62	0.988662355	0.000192085
AP006621.8	SEC62	0.984578146	0.000354916
JHDM1D-AS1	SEC62	0.999992702	7.99E-11
RP11-20I23.6	SEC62	0.996588652	1.74E-05

RP11-160E2.19	SEC62	0.943898352	0.004632805
AC011558.5	RCOR3	0.822751029	0.044341464
RP11-156P1.3	AHSP	-0.834062784	0.039018185
AC005786.7	SEC62	0.991334457	0.000112312
AC005944.2	SEC62	0.964924898	0.001823818
RP3-438O4.4	AHSP	0.856471799	0.029422152
CTB-191K22.5	SEC62	0.976485456	0.0008229
PSMD5-AS1	AHSP	0.878462524	0.0212594
TOPORS-AS1	AHSP	0.816689905	0.047324039
AC087294.2	AHSP	0.872470259	0.023358691
AP001062.8	AHSP	0.908465491	0.012184386
RP11-455F5.3	AHSP	0.870823497	0.023952097
AP006621.8	AHSP	0.861316618	0.027515967
JHDM1D-AS1	AHSP	0.851809242	0.031313579
RP11-20I23.6	AHSP	0.844167334	0.034533624
AC005786.7	AHSP	0.858871534	0.028470421
RP11-20I23.8	SEC62	0.999754006	9.08E-08
CDC37L1-AS1	SEC62	0.99497319	3.78E-05
RP11-20I23.8	AHSP	0.855535133	0.029797649
CDC37L1-AS1	AHSP	0.849267243	0.032368194
RP5-1142A6.10	SEC62	0.986028966	0.000291421
RP5-1142A6.10	AHSP	0.830658279	0.040586854
RP11-556I13.1	AHSP	0.851257422	0.031541115
RP11-556I13.1	SEC62	0.999991419	1.10E-10
CTA-315H11.2	SECISBP2	-0.955968904	0.002865424
RP11-66D17.5	SECISBP2	0.935580651	0.006091113
RP11-126K1.8	SECISBP2	0.974175486	0.000991747
RP3-438O4.4	SECISBP2	0.98528271	0.000323304
NUP50-AS1	SECISBP2	0.975993185	0.000857573
PSMD5-AS1	SECISBP2	0.983255412	0.000418224
LA16c-359F1.1	NAALADL1	0.855719869	0.029723412
TOPORS-AS1	SECISBP2	0.968165623	0.00150401
CCDC144NL-AS1	TOLLIP	-0.87101084	0.023884231
AC087294.2	SECISBP2	0.995027485	3.70E-05
AP001062.8	SECISBP2	0.987416033	0.000236538
RP11-455F5.3	SECISBP2	0.997111137	1.25E-05
RP11-326C3.2	SECISBP2	0.988913774	0.000183675
AP006621.8	SECISBP2	0.986761407	0.00026173
JHDM1D-AS1	SECISBP2	0.996877942	1.46E-05
RP11-20I23.6	SECISBP2	0.991432472	0.000109789
RP11-160E2.19	SECISBP2	0.943282395	0.004734103
AC005786.7	SECISBP2	0.981622872	0.000503475
AC005944.2	SECISBP2	0.957631062	0.002654661
CTB-191K22.5	SECISBP2	0.968410162	0.001481115
RP11-20I23.8	SECISBP2	0.996537407	1.80E-05
CDC37L1-AS1	SECISBP2	0.986497524	0.000272244
RP5-1142A6.10	SECISBP2	0.9777441	0.000737476
RP11-556I13.1	SECISBP2	0.996838338	1.50E-05
CTA-315H11.2	SELENBP1	-0.939664944	0.005350659
RP11-66D17.5	SELENBP1	0.960357051	0.002326194
RP11-126K1.8	SELENBP1	0.981355505	0.000518185
RP3-438O4.4	SELENBP1	0.994116315	5.18E-05
NUP50-AS1	SELENBP1	0.989445469	0.000166509
LL21NC02-21A1.1	TOLLIP	0.818388436	0.046479115
PSMD5-AS1	SELENBP1	0.983872878	0.000388029
TOPORS-AS1	SELENBP1	0.978570259	0.00068393
RP11-473M20.11	FAM107B	0.816588724	0.047374594
CCDC144NL-AS1	FAM107B	-0.826696476	0.042448658
CTA-315H11.2	FAM107B	-0.835730061	0.038260539
RP11-326C3.2	FAM107B	0.830326538	0.040741254
AP006621.8	FAM107B	0.814712113	0.048316787
RP11-160E2.19	FAM107B	0.913652912	0.010861835
AC087294.2	SELENBP1	0.999866595	2.67E-08

CCDC144NL-AS1	PGLYRP1	-0.908791422	0.012099125
AP001062.8	SELENBP1	0.995941436	2.47E-05
RP11-66D17.5	PGLYRP1	0.870916234	0.023918491
RP11-455F5.3	SELENBP1	0.999534435	3.25E-07
RP11-326C3.2	SELENBP1	0.984518299	0.000357669
AP006621.8	SELENBP1	0.984482123	0.000359338
JHDM1D-AS1	SELENBP1	0.99917889	1.01E-06
RP11-20I23.6	SELENBP1	0.995319342	3.28E-05
RP11-160E2.19	SELENBP1	0.936555689	0.005910083
AC005786.7	SELENBP1	0.992136223	9.25E-05
AC005944.2	SELENBP1	0.970892606	0.00125853
CTB-191K22.5	SELENBP1	0.984293852	0.000368087
RP11-20I23.8	SELENBP1	0.999165395	1.04E-06
CDC37L1-AS1	SELENBP1	0.994702412	4.20E-05
RP5-1142A6.10	SELENBP1	0.984569859	0.000355297
RP11-556I13.1	SELENBP1	0.999137363	1.12E-06
CTA-315H11.2	SELL	-0.969776315	0.001356402
RP11-126K1.8	SELL	0.936959297	0.005835929
RP3-438O4.4	SELL	0.956505973	0.002796456
NUP50-AS1	SELL	0.949093558	0.003821238
PSMD5-AS1	SELL	0.987583499	0.000230297
TOPORS-AS1	SELL	0.95473587	0.003026893
AC087294.2	SELL	0.976498954	0.000821959
AP001062.8	SELL	0.95962507	0.002412294
RP11-455F5.3	SELL	0.981936408	0.000486493
RP11-326C3.2	SELL	0.99922508	9.01E-07
AP006621.8	SELL	0.992270871	8.94E-05
JHDM1D-AS1	SELL	0.981796726	0.000494023
PSMD5-AS1	TFDP1	0.898058368	0.015058451
TOPORS-AS1	TFDP1	0.913411939	0.010921642
RP11-20I23.6	SELL	0.988742014	0.0001894
RP11-160E2.19	SELL	0.988008455	0.000214834
AC005786.7	SELL	0.972113507	0.001155642
RP11-326C3.2	TFDP1	0.868913063	0.024649393
AP006621.8	TFDP1	0.890706093	0.017264971
AC005944.2	SELL	0.960365747	0.002325181
RP11-20I23.6	TFDP1	0.907287541	0.012494941
CTB-191K22.5	SELL	0.939121406	0.005446491
AC005944.2	TFDP1	0.908652164	0.012135518
RP11-20I23.8	SELL	0.984098667	0.000377268
RMRP	TFDP1	0.868108955	0.024945733
CDC37L1-AS1	SELL	0.962192756	0.002117061
RP5-1142A6.10	SELL	0.985021965	0.000334832
RP11-556I13.1	SELL	0.981780673	0.000494892
RP5-1142A6.10	TFDP1	0.888925442	0.017821142
AC024028.1	SEMA3C	0.961899501	0.002149818
CCDC144NL-AS1	ARHGAP27	-0.890059905	0.017465823
RP11-498J9.2	SEMA3C	0.99994694	4.22E-09
RP3-438O4.4	ARHGAP27	0.816470268	0.047433813
NUP50-AS1	ARHGAP27	0.814453914	0.048447095
PSMD5-AS1	ARHGAP27	0.914363327	0.010686445
TOPORS-AS1	ARHGAP27	0.837544603	0.037443893
AC087294.2	ARHGAP27	0.858842418	0.028481879
AP001062.8	ARHGAP27	0.827497659	0.042069006
RP11-455F5.3	ARHGAP27	0.872652924	0.023293305
RP11-34P13.14	SEMA3C	0.977155587	0.00077684
RP11-93O14.2	SEMA3C	0.983383947	0.000411846
JHDM1D-AS1	ARHGAP27	0.870525675	0.024060173
RP11-20I23.6	ARHGAP27	0.894952113	0.015972983
RP11-485G7.6	SEMA3C	0.967747047	0.001543604
AC005786.7	ARHGAP27	0.861406486	0.02748118
AC005944.2	ARHGAP27	0.873804093	0.02288325
RP11-20I23.8	ARHGAP27	0.876935371	0.021785453

CDC37L1-AS1	ARHGAP27	0.828127361	0.04177173
RP5-1142A6.10	ARHGAP27	0.904053946	0.013366845
RP11-556I13.1	ARHGAP27	0.870490156	0.024073078
RP11-78A19.3	SEMA3C	0.983495632	0.000406343
Z69720.3	SEMA3C	0.986525642	0.000271114
AC024028.1	SEMA4A	0.924372914	0.008362911
RP11-473M20.11	SEMA4A	0.971737185	0.001186892
CTA-315H11.2	SEMA4D	-0.955496004	0.002926836
RP11-326C3.2	SEMA4D	0.933509041	0.006484592
RP11-160E2.19	SEMA4D	0.965950168	0.001719348
AC011558.5	SEMA4D	0.951104192	0.00352775
CTA-315H11.2	SEMA4F	-0.970935696	0.001254825
CCDC144NL-AS1	MRC2	-0.898325305	0.014981072
RP11-126K1.8	SEMA4F	0.926620138	0.007879345
RP11-66D17.5	MRC2	0.911337376	0.0114431
RP3-438O4.4	SEMA4F	0.954866919	0.003009525
NUP50-AS1	SEMA4F	0.942026685	0.004943936
PSMD5-AS1	SEMA4F	0.982093241	0.000478107
TOPORS-AS1	SEMA4F	0.953315069	0.00321835
AC087294.2	SEMA4F	0.9730163	0.001082356
AP001062.8	SEMA4F	0.953377274	0.003209846
RP11-455F5.3	SEMA4F	0.978147734	0.000711065
RP11-326C3.2	SEMA4F	0.998140017	5.19E-06
AP006621.8	SEMA4F	0.987620228	0.000228939
JHDM1D-AS1	SEMA4F	0.979726776	0.000612339
RP11-20I23.6	SEMA4F	0.986869863	0.000257469
RP11-160E2.19	SEMA4F	0.989040847	0.000179496
AC005786.7	SEMA4F	0.969572648	0.00137465
AC005944.2	SEMA4F	0.953272477	0.003224178
CTB-191K22.5	SEMA4F	0.931575607	0.006862668
RP11-20I23.8	SEMA4F	0.981754507	0.00049631
CDC37L1-AS1	SEMA4F	0.961835938	0.00215695
RP5-1142A6.10	SEMA4F	0.983303342	0.00041584
RP11-556I13.1	SEMA4F	0.979756774	0.000610535
AC011558.5	SEMA6A	0.941607271	0.005015015
AC011558.5	MRC2	0.877263731	0.021671826
RP11-473M20.11	RELB	0.811927805	0.049730561
CTA-315H11.2	RELB	-0.836358703	0.037976679
CTD-2541M15.3	RELB	-0.837233551	0.037583296
RP11-326C3.2	RELB	0.832136252	0.039902305
AP006621.8	RELB	0.817478418	0.046930918
RP11-498J9.2	SEMA6B	0.930474057	0.007082746
RP11-485G7.6	SEMA6B	0.95745578	0.002676513
RP3-337H4.8	SEPT5	-0.937219727	0.005788324
RP11-680G24.6	KLF1	-0.866476027	0.025552701
RP3-339A18.6	KLF1	-0.824563133	0.043467335
RP11-767C1.1	KLF1	0.82096655	0.045210187
CTC-1337H24.3	KLF1	0.915844377	0.010325251
CTA-315H11.2	C22orf25	-0.86019485	0.027951941
CTA-315H11.2	SEPT6	-0.92936456	0.007307835
PSMD5-AS1	SEPT6	0.923204948	0.008619771
RP11-326C3.2	SEPT6	0.943053815	0.004771968
AP006621.8	SEPT6	0.930725572	0.007032197
RP11-160E2.19	SEPT6	0.987520928	0.000232619
RP5-1142A6.10	SEPT6	0.917217594	0.009995739
AC011558.5	SEPT6	0.981995819	0.000483308
AC024028.1	SEPT7L	0.964355341	0.001883169
RP11-498J9.2	SEPT7L	1	0
RP11-34P13.14	SEPT7L	0.978552256	0.000685076
RP11-93O14.2	SEPT7L	0.982998398	0.000431125
RP11-485G7.6	SEPT7L	0.965304842	0.001784749
RP11-78A19.3	SEPT7L	0.983256999	0.000418145
RP11-160E2.19	C22orf25	0.848087648	0.032863176

Z69720.3	SEPT7L	0.986539728	0.000270549
CTA-315H11.2	SEPT9	-0.954764043	0.003023155
PSMD5-AS1	SEPT9	0.951498926	0.003471485
RMRP	C22orf25	0.834370948	0.038877625
RP11-455F5.3	SEPT9	0.926187361	0.007971382
RP11-326C3.2	SEPT9	0.972299764	0.001140327
AP006621.8	SEPT9	0.958879916	0.002501528
JHDM1D-AS1	SEPT9	0.926693935	0.007863703
RP11-20I23.6	SEPT9	0.944813081	0.004484356
CCDC144NL-AS1	TMCC2	-0.867670016	0.025108207
RP11-160E2.19	SEPT9	0.997455478	9.70E-06
AC005786.7	SEPT9	0.918391985	0.009718053
RP11-20I23.8	SEPT9	0.931281351	0.006921126
RP5-1142A6.10	SEPT9	0.949518377	0.003758268
RP11-556I13.1	SEPT9	0.926715593	0.007859116
AC011558.5	SEPT9	0.963927914	0.001928325
RP11-66D17.5	SEPX1	0.918801262	0.009622171
RP11-126K1.8	SEPX1	0.92326022	0.008607531
RP3-438O4.4	SEPX1	0.942745742	0.004823234
NUP50-AS1	SEPX1	0.955968801	0.002865437
PSMD5-AS1	SEPX1	0.970175416	0.001320994
TOPORS-AS1	SEPX1	0.968034583	0.001516351
AC087294.2	SEPX1	0.959876404	0.002382557
AP001062.8	SEPX1	0.951132995	0.00352363
RP11-455F5.3	SEPX1	0.960945326	0.002258117
RP11-326C3.2	SEPX1	0.972453392	0.001127772
AP006621.8	SEPX1	0.96834556	0.001487146
JHDM1D-AS1	SEPX1	0.958093678	0.002597413
RP11-20I23.6	SEPX1	0.977711556	0.000739626
RP11-160E2.19	SEPX1	0.969439561	0.00138664
LL21NC02-21A1.1	TMCC2	0.821797675	0.044804601
AC005786.7	SEPX1	0.977918055	0.000726035
AC005944.2	SEPX1	0.973167145	0.001070343
CCDC144NL-AS1	SASH3	-0.891235007	0.0171014
CTB-191K22.5	SEPX1	0.945047694	0.004446663
RP11-66D17.5	SASH3	0.880756136	0.020480879
RP11-20I23.8	SEPX1	0.962745118	0.002056036
CDC37L1-AS1	SEPX1	0.942751869	0.004822212
RP5-1142A6.10	SEPX1	0.991236507	0.000114862
RP11-556I13.1	SEPX1	0.958029536	0.002605314
AC024028.1	SERF1A	0.952140888	0.003380931
RP11-498J9.2	SERF1A	0.998239937	4.64E-06
RP11-34P13.14	SERF1A	0.975118782	0.000920911
RP11-93O14.2	SERF1A	0.989242065	0.000172977
RP11-485G7.6	SERF1A	0.971416897	0.001213815
RP11-78A19.3	SERF1A	0.987202731	0.000244607
Z69720.3	SERF1A	0.983308961	0.000415561
RP11-66D17.5	SERF2	0.977891047	0.000727805
RP11-126K1.8	SERF2	0.988745799	0.000189273
RP3-438O4.4	SERF2	0.980949974	0.000540899
NUP50-AS1	SERF2	0.996784973	1.55E-05
PSMD5-AS1	SERF2	0.987343878	0.000239253
TOPORS-AS1	SERF2	0.968992869	0.001427257
AC087294.2	SERF2	0.991803914	0.000100488
AP001062.8	SERF2	0.995902844	2.51E-05
RP11-455F5.3	SERF2	0.991301291	0.000113172
RP11-326C3.2	SERF2	0.971478232	0.001208636
AC024028.1	TLE4	0.869233525	0.024531762
AP006621.8	SERF2	0.982841809	0.00043908
AC011558.5	TLE4	0.883957869	0.019417366
JHDM1D-AS1	SERF2	0.986070653	0.000289689
RP11-20I23.6	SERF2	0.987457983	0.000234967
RP11-66D17.5	ZNF451	0.842534269	0.035240967

RP11-160E2.19	SERF2	0.92955527	0.0072689
RP3-438O4.4	ZNF451	0.915003142	0.01052967
NUP50-AS1	ZNF451	0.907699376	0.012385935
AC005786.7	SERF2	0.989607119	0.000161457
TOPORS-AS1	ZNF451	0.898457301	0.01494288
AC005944.2	SERF2	0.991840198	9.96E-05
CTB-191K22.5	SERF2	0.996089345	2.29E-05
RP11-20I23.8	SERF2	0.988208447	0.000207741
CDC37L1-AS1	SERF2	0.980068933	0.000591912
RP5-1142A6.10	SERF2	0.982114171	0.000476993
RP11-556I13.1	SERF2	0.985906195	0.000296553
RP11-498J9.2	SERHL2	0.945359283	0.004396844
RP11-160E2.19	ZNF451	0.911467025	0.011410167
AC005786.7	ZNF451	0.911533337	0.01139334
AC005944.2	ZNF451	0.89069575	0.017268177
CTB-191K22.5	ZNF451	0.894126439	0.016220437
RMRP	ZNF451	0.858863564	0.028473557
RP11-93O14.2	SERHL2	0.952682424	0.003305459
CDC37L1-AS1	ZNF451	0.914029335	0.01076873
RP5-1142A6.10	ZNF451	0.916449095	0.010179506
RP11-485G7.6	SERHL2	0.969029482	0.001423906
RP3-337H4.8	FASTK	0.856016123	0.029604545
RP11-767C1.1	FASTK	0.873698738	0.022920634
RP11-78A19.3	SERHL2	0.939814292	0.005324473
LA16c-359F1.1	SERHL2	0.922425671	0.008793252
Z69720.3	SERHL2	0.959737158	0.00239901
RP3-438O4.4	SERPINA1	0.941246148	0.005076613
RP11-93O14.2	NBPF10	0.916378361	0.010196502
RP11-485G7.6	NBPF10	0.851115629	0.031599707
NUP50-AS1	SERPINA1	0.947564007	0.004052213
PSMD5-AS1	SERPINA1	0.970393355	0.001301854
TOPORS-AS1	SERPINA1	0.965807295	0.001733724
CCDC144NL-AS1	POLL	-0.850919296	0.031680921
AC087294.2	SERPINA1	0.958983552	0.002489022
AP001062.8	SERPINA1	0.945762195	0.004332832
RP11-455F5.3	SERPINA1	0.961023002	0.002249203
RP11-326C3.2	SERPINA1	0.978810955	0.000668707
AP006621.8	SERPINA1	0.970618307	0.001282243
JHDM1D-AS1	SERPINA1	0.959758546	0.002396479
RP11-20I23.6	SERPINA1	0.979140858	0.000648118
RP11-160E2.19	SERPINA1	0.979815003	0.000607039
AC005786.7	SERPINA1	0.975346424	0.000904206
AC005944.2	SERPINA1	0.966209111	0.001693445
CTB-191K22.5	SERPINA1	0.935290134	0.006145568
RP11-20I23.8	SERPINA1	0.964121158	0.001907844
CDC37L1-AS1	SERPINA1	0.94304673	0.004773143
RP5-1142A6.10	SERPINA1	0.991553503	0.000106714
RP11-556I13.1	SERPINA1	0.959736476	0.00239909
AC024028.1	SERPINB10	0.949766539	0.003721721
RP11-498J9.2	SERPINB10	0.996872226	1.47E-05
RP11-34P13.14	SERPINB10	0.964017109	0.001918858
RP11-93O14.2	SERPINB10	0.984394196	0.000363411
RP11-485G7.6	SERPINB10	0.977602643	0.000746845
LL21NC02-21A1.1	POLL	0.846735666	0.033434848
RP11-78A19.3	SERPINB10	0.983795728	0.00039174
Z69720.3	SERPINB10	0.976914926	0.00079323
CCDC144NL-AS1	BIRC2	-0.874354222	0.022688516
AC024028.1	SERPINB2	0.966768354	0.001638164
RP11-498J9.2	SERPINB2	0.999368691	5.98E-07
RP11-34P13.14	SERPINB2	0.972273599	0.001142473
RP11-93O14.2	SERPINB2	0.9774548	0.000756699
RP11-485G7.6	SERPINB2	0.965649549	0.001749664
RP11-473M20.11	SERPINB2	0.919953546	0.009354706

RP11-78A19.3	SERPINB2	0.978195143	0.000707994
Z69720.3	SERPINB2	0.983313713	0.000415325
RP11-473M20.11	SERPINB9	0.939196273	0.005433241
AC024028.1	SERPINE1	0.951356891	0.00349168
RP11-498J9.2	SERPINE1	0.996328587	2.02E-05
RP11-34P13.14	SERPINE1	0.988351233	0.00020275
RP11-93O14.2	SERPINE1	0.989536914	0.000163642
RP11-485G7.6	SERPINE1	0.957648829	0.002652452
RP11-78A19.3	SERPINE1	0.985041335	0.000333969
Z69720.3	SERPINE1	0.992727736	7.91E-05
AC024028.1	SERPINE2	0.940419166	0.005219061
RP11-498J9.2	SERPINE2	0.993551008	6.23E-05
RP11-34P13.14	SERPINE2	0.974667096	0.000954505
RP11-93O14.2	SERPINE2	0.994999264	3.74E-05
RP11-485G7.6	SERPINE2	0.974880589	0.000938552
RP11-78A19.3	SERPINE2	0.997031184	1.32E-05
AC011558.5	BIRC2	0.818619372	0.046364784
LA16c-359F1.1	SERPINE2	0.939151515	0.00544116
Z69720.3	SERPINE2	0.976779033	0.000802559
CTD-2139B15.2	SERPINH1	0.924463624	0.008343121
RP11-93O14.2	SLC22A18	0.90707392	0.012551664
RP11-485G7.6	SLC22A18	0.890682217	0.017272372
AC011558.5	SERPINH1	-0.924459305	0.008344062
AC024028.1	SERTAD1	0.979915852	0.000601009
RP11-498J9.2	SERTAD1	0.997460723	9.66E-06
CCDC144NL-AS1	AKNA	-0.908362551	0.012211374
RP11-34P13.14	SERTAD1	0.976266111	0.000838262
RP11-66D17.5	AKNA	0.865629659	0.025870028
RP11-126K1.8	AKNA	0.915296537	0.010458155
RP11-93O14.2	SERTAD1	0.970277778	0.001311987
RP11-485G7.6	SERTAD1	0.949527718	0.003756889
RP11-473M20.11	SERTAD1	0.939773358	0.005331644
RP11-78A19.3	SERTAD1	0.972068322	0.001159372
Z69720.3	SERTAD1	0.981324964	0.000519879
CCDC144NL-AS1	SERTAD2	-0.939209387	0.005430922
CTA-315H11.2	SERTAD2	-0.977459847	0.000756362
RP11-126K1.8	SERTAD2	0.920545245	0.009218786
RP3-438O4.4	SERTAD2	0.93918075	0.005435987
NUP50-AS1	SERTAD2	0.92495431	0.00823646
PSMD5-AS1	SERTAD2	0.974919156	0.000935685
TOPORS-AS1	SERTAD2	0.934085882	0.006373819
AC087294.2	SERTAD2	0.962049567	0.002133024
AP001062.8	SERTAD2	0.941397527	0.005050747
RP11-455F5.3	SERTAD2	0.969799343	0.001354347
RP11-326C3.2	SERTAD2	0.99273231	7.90E-05
AP006621.8	SERTAD2	0.983012798	0.000430397
JHDM1D-AS1	SERTAD2	0.970208852	0.001318049
RP11-20I23.6	SERTAD2	0.973952127	0.001008901
RP11-160E2.19	SERTAD2	0.981090661	0.000532964
CCDC144NL-AS1	PLCB2	-0.908529752	0.012167553
AC005786.7	SERTAD2	0.950383891	0.003631566
RP11-66D17.5	PLCB2	0.825030103	0.043243392
RP11-126K1.8	PLCB2	0.880419191	0.020594378
RP3-438O4.4	PLCB2	0.911021487	0.011523534
NUP50-AS1	PLCB2	0.895999814	0.015661623
AC005944.2	SERTAD2	0.933030905	0.006577116
TOPORS-AS1	PLCB2	0.912833214	0.011065924
RP11-20I23.8	SERTAD2	0.971750744	0.001185759
AP001062.8	PLCB2	0.910283821	0.011712427
CDC37L1-AS1	SERTAD2	0.945331679	0.004401246
RP5-1142A6.10	SERTAD2	0.96583365	0.001731067
RP11-556I13.1	SERTAD2	0.970203835	0.00131849
MIR210HG	SESN2	0.924859054	0.008257114

CTA-315H11.2	SESN3	-0.946622029	0.004197769
RP11-66D17.5	SESN3	0.949244993	0.003798732
RP11-126K1.8	SESN3	0.972274508	0.001142398
RP3-438O4.4	SESN3	0.993889477	5.59E-05
CTB-191K22.5	PLCB2	0.884607206	0.019204989
NUP50-AS1	SESN3	0.982546134	0.000454298
PSMD5-AS1	SESN3	0.981107269	0.000532031
TOPORS-AS1	SESN3	0.979068545	0.000652603
AC087294.2	SESN3	0.998628726	2.82E-06
AP001062.8	SESN3	0.990983156	0.000121589
RP11-455F5.3	SESN3	0.998505315	3.35E-06
RP11-680G24.6	TSTA3	-0.861146042	0.027582051
RP3-339A18.6	TSTA3	-0.827730601	0.041958921
CTC-1337H24.3	TSTA3	0.905890923	0.012868038
RP11-66D17.5	TSTA3	0.83910293	0.03674916
RP11-326C3.2	SESN3	0.987852504	0.000220446
RP11-118G23.2	STK16	-0.876700276	0.021866981
RP3-339A18.6	STK16	-0.843446479	0.034845022
RP11-767C1.1	STK16	0.910873476	0.011561316
AP006621.8	SESN3	0.983342322	0.000413906
LL21NC02-21A1.1	STK16	0.846395226	0.033579532
CCDC144NL-AS1	ASCC2	-0.860102561	0.027987953
JHDM1D-AS1	SESN3	0.999945324	4.48E-09
RP11-20I23.6	SESN3	0.996031204	2.36E-05
RP11-160E2.19	SESN3	0.942241986	0.004907642
AC005786.7	SESN3	0.99079015	0.000126841
AC005944.2	SESN3	0.96327407	0.001998423
CTB-191K22.5	SESN3	0.975901552	0.000864105
RP11-20I23.8	SESN3	0.999551854	3.01E-07
CDC37L1-AS1	SESN3	0.995642466	2.84E-05
RP5-1142A6.10	SESN3	0.984987861	0.000336355
RP11-556I13.1	SESN3	0.999952029	3.45E-09
RP11-680G24.6	SESTD1	0.921590853	0.008980962
CTA-315H11.2	SFI1	-0.959568191	0.002419049
RP11-66D17.5	SFI1	0.947268996	0.004097527
RP11-126K1.8	SFI1	0.976728229	0.000806061
RP3-438O4.4	SFI1	0.986517119	0.000271457
NUP50-AS1	SFI1	0.980655436	0.000557699
PSMD5-AS1	SFI1	0.987974098	0.000216064
TOPORS-AS1	SFI1	0.963531954	0.001970628
AC087294.2	SFI1	0.99587639	2.55E-05
AP001062.8	SFI1	0.989708781	0.000158319
LL21NC02-21A1.1	ASCC2	0.83467034	0.038741293
RP11-455F5.3	SFI1	0.997317239	1.08E-05
RP11-326C3.2	SFI1	0.987272274	0.000241962
AP006621.8	SFI1	0.989068471	0.000178594
JHDM1D-AS1	SFI1	0.996835155	1.50E-05
RP11-66D17.5	SPOCK2	0.826288211	0.042642733
RP11-126K1.8	SPOCK2	0.893125076	0.016522998
RP3-438O4.4	SPOCK2	0.906635969	0.012668344
NUP50-AS1	SPOCK2	0.900615587	0.014325069
RP11-20I23.6	SFI1	0.992496483	8.42E-05
TOPORS-AS1	SPOCK2	0.912275367	0.011205869
RP11-160E2.19	SFI1	0.945706582	0.004341641
AP001062.8	SPOCK2	0.914950244	0.010542589
AC005786.7	SFI1	0.984140199	0.000375305
AC005944.2	SFI1	0.971594141	0.001198879
CTB-191K22.5	SFI1	0.978076983	0.00071566
RP11-20I23.8	SFI1	0.997200658	1.17E-05
CDC37L1-AS1	SFI1	0.990474552	0.000135669
RP5-1142A6.10	SFI1	0.97910431	0.000650383
RP11-556I13.1	SFI1	0.996786926	1.55E-05
CTA-315H11.2	SFN	-0.960804471	0.002274326

CTB-191K22.5	SPOCK2	0.886921961	0.01845702
RP11-66D17.5	SFN	0.931580187	0.00686176
CDC37L1-AS1	SPOCK2	0.913654977	0.010861323
RP11-126K1.8	SFN	0.964598216	0.001857745
RP3-438O4.4	SFN	0.98187989	0.000489533
NUP50-AS1	SFN	0.97444289	0.000971402
AC024028.1	PRR7	0.866020741	0.025723169
PSMD5-AS1	SFN	0.990353587	0.000139131
LLNLR-284B4.1	PRR7	0.816688511	0.047324736
CTD-2541M15.3	PRR7	-0.823503651	0.043977426
AC011558.5	PRR7	0.907227438	0.012510887
CCDC144NL-AS1	LTBP3	-0.888706933	0.017889974
TOPORS-AS1	SFN	0.972368243	0.001134722
AC087294.2	SFN	0.994186083	5.06E-05
AP001062.8	SFN	0.983498283	0.000406213
RP11-455F5.3	SFN	0.996663601	1.67E-05
RP11-326C3.2	SFN	0.997345922	1.06E-05
AP006621.8	SFN	0.993289994	6.74E-05
JHDM1D-AS1	SFN	0.996725998	1.61E-05
RP11-20I23.6	SFN	0.997562136	8.91E-06
RP11-160E2.19	SFN	0.966237097	0.001690657
AC005786.7	SFN	0.987452944	0.000235155
AC005944.2	SFN	0.969138839	0.001413921
CTB-191K22.5	SFN	0.966693111	0.001645549
RP11-20I23.8	SFN	0.997664039	8.18E-06
CDC37L1-AS1	SFN	0.985038213	0.000334108
RP5-1142A6.10	SFN	0.989619732	0.000161066
RP11-556I13.1	SFN	0.996704215	1.63E-05
CTA-315H11.2	SFRP2	-0.947436394	0.004071784
RP11-66D17.5	SFRP2	0.941379652	0.005053798
RP11-126K1.8	SFRP2	0.961471487	0.002198073
RP3-438O4.4	SFRP2	0.99325582	6.81E-05
NUP50-AS1	SFRP2	0.972887175	0.001092693
PSMD5-AS1	SFRP2	0.969269514	0.001402034
AC011558.5	LTBP3	0.81444355	0.048452329
RP11-118G23.2	NDUFV3	-0.817268446	0.047035453
TOPORS-AS1	SFRP2	0.971824206	0.001179629
AC087294.2	SFRP2	0.993344949	6.63E-05
RP3-438O4.4	NDUFV3	0.871559707	0.023685929
AP001062.8	SFRP2	0.98339533	0.000411284
PSMD5-AS1	NDUFV3	0.897516984	0.015215975
TOPORS-AS1	NDUFV3	0.84279972	0.035125531
AC087294.2	NDUFV3	0.888028091	0.018104627
RP11-455F5.3	SFRP2	0.992307248	8.85E-05
RP11-455F5.3	NDUFV3	0.885980793	0.018759423
RP11-326C3.2	NDUFV3	0.832662117	0.039660056
AP006621.8	NDUFV3	0.880160075	0.020681864
JHDM1D-AS1	NDUFV3	0.868130885	0.024937629
RP11-20I23.6	NDUFV3	0.867092379	0.025322785
AC005786.7	NDUFV3	0.883074095	0.019708215
RP11-326C3.2	SFRP2	0.980265283	0.000580346
AP006621.8	SFRP2	0.972423126	0.00113024
RP11-20I23.8	NDUFV3	0.872845387	0.023224507
CDC37L1-AS1	NDUFV3	0.865434549	0.025943445
JHDM1D-AS1	SFRP2	0.996342146	2.00E-05
RP5-1142A6.10	NDUFV3	0.860414607	0.027866276
RP11-556I13.1	NDUFV3	0.867621366	0.025126246
CCDC144NL-AS1	SMOX	-0.863057502	0.026845813
RP11-20I23.6	SFRP2	0.989289871	0.000171446
RP11-160E2.19	SFRP2	0.930971378	0.006982967
AC005786.7	SFRP2	0.983443815	0.000408892
AC005944.2	SFRP2	0.949196144	0.003805985
CTB-191K22.5	SFRP2	0.967396757	0.001577129

RP11-20I23.8	SFRP2	0.994971061	3.79E-05
CDC37L1-AS1	SFRP2	0.99704352	1.31E-05
RP5-1142A6.10	SFRP2	0.975001224	0.000929597
RP11-556I13.1	SFRP2	0.996411522	1.93E-05
CTA-315H11.2	SFTPC	-0.945741186	0.004336159
RP11-66D17.5	SFTPC	0.950244931	0.003651764
RP11-126K1.8	SFTPC	0.97284269	0.001096265
RP3-438O4.4	SFTPC	0.993698542	5.94E-05
NUP50-AS1	SFTPC	0.983525845	0.000404861
PSMD5-AS1	SFTPC	0.982245427	0.000470039
TOPORS-AS1	SFTPC	0.980052526	0.000592884
AC087294.2	SFTPC	0.998911004	1.78E-06
AP001062.8	SFTPC	0.991493281	0.000108239
RP11-455F5.3	SFTPC	0.998826662	2.06E-06
RP11-326C3.2	SFTPC	0.988496209	0.000197745
LL21NC02-21A1.1	SMOX	0.83336734	0.039336267
AP006621.8	SFTPC	0.984286293	0.000368441
JHDM1D-AS1	SFTPC	0.999999212	9.32E-13
CCDC144NL-AS1	DENND1C	-0.896558183	0.01549689
RP11-20I23.6	SFTPC	0.996735909	1.60E-05
RP11-126K1.8	DENND1C	0.822202747	0.044607543
RP3-438O4.4	DENND1C	0.841821218	0.035551932
NUP50-AS1	DENND1C	0.838271616	0.037119016
RP11-160E2.19	SFTPC	0.943792601	0.00465012
TOPORS-AS1	DENND1C	0.859728076	0.028134309
AC087294.2	DENND1C	0.880914371	0.020427681
AP001062.8	DENND1C	0.851083315	0.031613067
RP11-455F5.3	DENND1C	0.893527874	0.01640097
AC005786.7	SFTPC	0.991761865	0.000101521
AC005944.2	SFTPC	0.965172813	0.001798278
JHDM1D-AS1	DENND1C	0.891932312	0.016886897
RP11-20I23.6	DENND1C	0.914059375	0.010761317
CTB-191K22.5	SFTPC	0.976773127	0.000802966
AC005786.7	DENND1C	0.882719319	0.019825554
AC005944.2	DENND1C	0.891177848	0.017119041
CTB-191K22.5	DENND1C	0.823740917	0.043862953
RP11-20I23.8	DENND1C	0.897761325	0.015144783
CDC37L1-AS1	DENND1C	0.85291368	0.030860517
RP11-20I23.8	SFTPC	0.999768356	8.05E-08
RP11-556I13.1	DENND1C	0.891906305	0.016894874
CDC37L1-AS1	SFTPC	0.995258828	3.37E-05
RP11-66D17.5	CD4	0.821638495	0.044882148
RP3-438O4.4	CD4	0.847447573	0.033133246
NUP50-AS1	CD4	0.860838597	0.027701352
PSMD5-AS1	CD4	0.874361359	0.022685995
TOPORS-AS1	CD4	0.913356156	0.010935509
AC087294.2	CD4	0.862456344	0.027076343
AP001062.8	CD4	0.846969425	0.033335673
RP11-455F5.3	CD4	0.861440102	0.027468173
RP11-326C3.2	CD4	0.891595639	0.016990301
AP006621.8	CD4	0.872776006	0.023249297
JHDM1D-AS1	CD4	0.861269708	0.027534133
RP11-20I23.6	CD4	0.897667881	0.01517199
RP11-160E2.19	CD4	0.91691118	0.010068816
AC005786.7	CD4	0.905619257	0.012941228
AC005944.2	CD4	0.887539542	0.018259868
CTB-191K22.5	CD4	0.840461097	0.036148648
RP11-20I23.8	CD4	0.867678247	0.025105155
CDC37L1-AS1	CD4	0.844695971	0.034306096
RP5-1142A6.10	SFTPC	0.986392451	0.000276488
RP11-556I13.1	CD4	0.861314187	0.027516908
AC011558.5	CD4	0.909134097	0.012009796
RP11-556I13.1	SFTPC	1	0

RP11-118G23.2	SFXN1	0.921767232	0.008941142
RP11-126K1.8	SATB1	0.876043595	0.022095479
RP3-438O4.4	SATB1	0.89834399	0.014975663
NUP50-AS1	SATB1	0.884178506	0.019345077
RP11-34P13.14	SFXN3	0.927747474	0.007642047
TOPORS-AS1	SATB1	0.898717149	0.014867833
CTD-2531D15.5	SFXN4	0.928012043	0.007586869
AP001062.8	SATB1	0.901391599	0.01410601
RP11-770G2.2	SFXN4	0.991159478	0.000116887
AC005943.6	SFXN4	0.920221356	0.009293067
CTA-315H11.2	SGIP1	-0.952203092	0.003372219
RP11-66D17.5	SGIP1	0.942937692	0.00479126
RP11-126K1.8	SGIP1	0.96903183	0.001423692
RP3-438O4.4	SGIP1	0.989600197	0.000161671
NUP50-AS1	SGIP1	0.980277795	0.000579612
AC005944.2	SATB1	0.913694936	0.010851422
CTB-191K22.5	SATB1	0.871418995	0.023736693
PSMD5-AS1	SGIP1	0.986166267	0.000285735
CDC37L1-AS1	SATB1	0.908668924	0.012131135
TOPORS-AS1	SGIP1	0.97846059	0.000690923
AC087294.2	SGIP1	0.997598643	8.64E-06
AP001062.8	SGIP1	0.988521618	0.000196874
RP11-455F5.3	SGIP1	0.998496762	3.39E-06
RP11-326C3.2	SGIP1	0.993229093	6.86E-05
AP006621.8	SGIP1	0.98859736	0.000194289
JHDM1D-AS1	SGIP1	0.999368743	5.98E-07
RP11-20I23.6	SGIP1	0.998198475	4.87E-06
RP11-160E2.19	SGIP1	0.954831949	0.003014154
AC005786.7	SGIP1	0.991250558	0.000114494
RP11-680G24.6	PTX3	0.824777086	0.043364664
LA16c-359F1.1	PTX3	0.876685538	0.021872097
AC005944.2	SGIP1	0.967621076	0.001555619
CTB-31O20.6	UIMC1	-0.828619042	0.041540297
CTA-315H11.2	UIMC1	-0.901417389	0.014098758
RP11-66D17.5	UIMC1	0.8170614	0.047138637
RP11-126K1.8	UIMC1	0.837944825	0.037264883
RP3-438O4.4	UIMC1	0.897319897	0.015273517
NUP50-AS1	UIMC1	0.843269085	0.034921855
PSMD5-AS1	UIMC1	0.848661083	0.032622109
TOPORS-AS1	UIMC1	0.836672896	0.037835178
AC087294.2	UIMC1	0.88464066	0.019194078
AP001062.8	UIMC1	0.865041427	0.026091669
RP11-455F5.3	UIMC1	0.882766833	0.01980982
RP11-326C3.2	UIMC1	0.870274759	0.024151408
AP006621.8	UIMC1	0.855368535	0.029864672
JHDM1D-AS1	UIMC1	0.895737245	0.015739377
RP11-20I23.6	UIMC1	0.874503667	0.022635753
RP11-160E2.19	UIMC1	0.816508866	0.047414513
AC005786.7	UIMC1	0.859199815	0.028341378
AC005944.2	UIMC1	0.817040516	0.04714905
CTB-191K22.5	UIMC1	0.847932218	0.032928662
RP11-20I23.8	UIMC1	0.891087494	0.017146944
CDC37L1-AS1	UIMC1	0.913579108	0.010880136
RP5-1142A6.10	UIMC1	0.842837437	0.035109144
RP11-556I13.1	UIMC1	0.896013922	0.01565745
CTB-191K22.5	SGIP1	0.972931487	0.00108914
RP11-20I23.8	SGIP1	0.999655586	1.78E-07
CDC37L1-AS1	SGIP1	0.991879169	9.87E-05
RP5-1142A6.10	SGIP1	0.98930313	0.000171023
RP11-556I13.1	SGIP1	0.999365151	6.04E-07
AC024028.1	SGK1	0.956171166	0.002839353
RP11-498J9.2	SGK1	0.975317899	0.000906291
RP11-34P13.14	SGK1	0.99709017	1.27E-05

RP11-93O14.2	SGK1	0.965083714	0.001807437
RP11-78A19.3	SGK1	0.955787347	0.002888925
Z69720.3	SGK1	0.985823703	0.000300027
AC024028.1	SGK3	0.954700773	0.003031552
RP11-498J9.2	SGK3	0.990417166	0.000137306
RP11-34P13.14	SGK3	0.993325108	6.67E-05
RP11-93O14.2	SGK3	0.977488212	0.000754467
RP11-485G7.6	SGK3	0.93539026	0.006126774
RP11-78A19.3	SGK3	0.97030631	0.001309482
Z69720.3	SGK3	0.996830415	1.51E-05
AC011558.5	SGOL1	-0.956312396	0.002821219
CTA-315H11.2	SH2B2	-0.945305392	0.004405441
PSMD5-AS1	SH2B2	0.947493376	0.004063039
RP11-93O14.2	LBH	-0.816309157	0.04751441
Z69720.3	LBH	-0.820107078	0.045631396
CCDC144NL-AS1	RAB2B	-0.883265547	0.019645033
RP11-326C3.2	SH2B2	0.964389242	0.00187961
AP006621.8	SH2B2	0.954425027	0.003068286
RP11-20I23.6	SH2B2	0.934020691	0.006386291
RP11-160E2.19	SH2B2	0.99452153	4.49E-05
RP11-20I23.8	SH2B2	0.919083676	0.009556279
RP5-1142A6.10	SH2B2	0.940605308	0.00518683
AC011558.5	SH2B2	0.966937125	0.001621659
CTA-315H11.2	SH2D3C	-0.959092206	0.002475943
PSMD5-AS1	SH2D3C	0.973575269	0.001038174
TOPORS-AS1	SH2D3C	0.921218644	0.009065275
AC087294.2	SH2D3C	0.942105761	0.004930591
AP001062.8	SH2D3C	0.920966527	0.009122602
RP11-455F5.3	SH2D3C	0.950620753	0.003597264
RP11-326C3.2	SH2D3C	0.985119225	0.000330509
AP006621.8	SH2D3C	0.978405624	0.000694441
JHDM1D-AS1	SH2D3C	0.948764299	0.003870396
RP11-20I23.6	SH2D3C	0.964696808	0.001847474
RP11-160E2.19	SH2D3C	0.999110257	1.19E-06
AC005786.7	SH2D3C	0.943030149	0.004775896
AC005944.2	SH2D3C	0.946357397	0.004239114
RP11-20I23.8	SH2D3C	0.953339646	0.003214989
CDC37L1-AS1	SH2D3C	0.920234923	0.00928995
AC011558.5	RAB2B	0.825539206	0.042999859
RP5-1142A6.10	SH2D3C	0.968114582	0.001508811
RP11-556I13.1	SH2D3C	0.948718273	0.003877293
LLNLR-284B4.1	SEMA4A	0.826586604	0.042500847
AC011558.5	SEMA4A	0.860206629	0.027947346
CCDC144NL-AS1	PARP10	-0.826487651	0.042547875
CTA-315H11.2	PARP10	-0.905680093	0.012924821
AC011558.5	SH2D3C	0.943747095	0.004657581
MIR210HG	SH2D6	0.9291813	0.007345344
CTA-315H11.2	SH3BGRL	-0.966485773	0.001665983
RP11-126K1.8	SH3BGRL	0.948307624	0.003939089
RP3-438O4.4	SH3BGRL	0.973547224	0.001040369
NUP50-AS1	SH3BGRL	0.953907291	0.003137844
PSMD5-AS1	SH3BGRL	0.975225449	0.000913065
TOPORS-AS1	SH3BGRL	0.96148128	0.002196963
AC087294.2	SH3BGRL	0.984579604	0.00035485
AP001062.8	SH3BGRL	0.969047258	0.001422281
RP11-455F5.3	SH3BGRL	0.988118336	0.000210922
RP11-326C3.2	SH3BGRL	0.992640158	8.11E-05
AP006621.8	SH3BGRL	0.982149267	0.000475129
JHDM1D-AS1	SH3BGRL	0.990502282	0.000134882
RP11-20I23.6	SH3BGRL	0.987044943	0.000250663
RP11-160E2.19	SH3BGRL	0.957035311	0.002729291
AC005786.7	SH3BGRL	0.971704867	0.001189595
AC005944.2	SH3BGRL	0.93884804	0.005495002

CTB-191K22.5	SH3BGRL	0.942448693	0.00487292
LL21NC02-21A1.1	PARP10	0.871510653	0.02370362
RP11-20I23.8	SH3BGRL	0.989975983	0.000150218
CDC37L1-AS1	SH3BGRL	0.976881669	0.000795508
RP5-1142A6.10	SH3BGRL	0.974497768	0.000967253
RP11-498J9.2	ADAP1	0.847724415	0.033016309
RP11-34P13.14	ADAP1	0.844514927	0.034383939
RP11-556I13.1	SH3BGRL	0.990537511	0.000133884
AC011558.5	ADAP1	0.812264862	0.049558409
CTA-315H11.2	CAT	-0.851937213	0.031260923
RP11-473M20.11	SH3BP1	0.940028532	0.005287019
AC011558.5	SH3BP2	0.961943674	0.002144868
AC011558.5	SH3BP5	0.927414561	0.007711755
CTA-315H11.2	SH3BP5L	-0.929352098	0.007310383
RP11-66D17.5	SH3BP5L	0.971467354	0.001209553
RP11-126K1.8	SH3BP5L	0.990266646	0.000141646
RP3-438O4.4	SH3BP5L	0.99091332	0.000123476
NUP50-AS1	SH3BP5L	0.995111705	3.58E-05
PSMD5-AS1	SH3BP5L	0.985115662	0.000330667
RP11-326C3.2	CAT	0.906329199	0.012750384
TOPORS-AS1	SH3BP5L	0.973754908	0.001024168
AC087294.2	SH3BP5L	0.998292854	4.37E-06
AP001062.8	SH3BP5L	0.999175769	1.02E-06
RP11-160E2.19	CAT	0.815647953	0.047845851
RP11-455F5.3	SH3BP5L	0.997821735	7.11E-06
RP11-326C3.2	SH3BP5L	0.977420586	0.000758989
AP006621.8	SH3BP5L	0.983560081	0.000403185
RMRP	CAT	0.885795792	0.018819142
JHDM1D-AS1	SH3BP5L	0.995056966	3.66E-05
RP11-20I23.6	SH3BP5L	0.991262468	0.000114183
LL21NC02-21A1.1	CAT	0.901571254	0.014055527
RP5-1142A6.10	CAT	0.915272044	0.010464116
RP11-160E2.19	SH3BP5L	0.927056818	0.007787007
CCDC144NL-AS1	ISCA1	-0.85870223	0.028537081
AC005786.7	SH3BP5L	0.990425805	0.000137059
AC005944.2	SH3BP5L	0.978498016	0.000688532
CTB-191K22.5	SH3BP5L	0.992248953	8.99E-05
RP11-20I23.8	SH3BP5L	0.995592863	2.91E-05
CDC37L1-AS1	SH3BP5L	0.99025877	0.000141875
RP5-1142A6.10	SH3BP5L	0.980726515	0.000553621
RP11-556I13.1	SH3BP5L	0.994950522	3.82E-05
RP11-66D17.5	SH3GLB2	0.991047064	0.000119874
RP11-126K1.8	SH3GLB2	0.991702577	0.000102985
RP3-438O4.4	SH3GLB2	0.968305334	0.001490908
NUP50-AS1	SH3GLB2	0.995487067	3.05E-05
PSMD5-AS1	SH3GLB2	0.967601126	0.001557526
TOPORS-AS1	SH3GLB2	0.952603604	0.003316391
AC087294.2	SH3GLB2	0.976720009	0.000806629
AP001062.8	SH3GLB2	0.99017514	0.000144318
RP11-455F5.3	SH3GLB2	0.97429572	0.000982573
RP11-326C3.2	SH3GLB2	0.939450319	0.0053884
AP006621.8	SH3GLB2	0.959448771	0.002433262
JHDM1D-AS1	SH3GLB2	0.966225339	0.001691828
RP11-20I23.6	SH3GLB2	0.965114105	0.00180431
LL21NC02-21A1.1	ISCA1	0.866085881	0.025698747
AC005786.7	SH3GLB2	0.974364957	0.00097731
AC005944.2	SH3GLB2	0.983955292	0.000384084
CCDC144NL-AS1	FBXO9	-0.864102305	0.026447384
CTB-191K22.5	SH3GLB2	0.99832403	4.21E-06
RP11-20I23.8	SH3GLB2	0.968351891	0.001486555
CDC37L1-AS1	SH3GLB2	0.964078083	0.0019124
LL21NC02-21A1.1	SH3GLB2	0.925509227	0.008116643
RP5-1142A6.10	SH3GLB2	0.958915899	0.002497182

RP11-556I13.1	SH3GLB2	0.965980608	0.001716293
AC024028.1	SH3TC1	0.995384051	3.19E-05
RP11-498J9.2	SH3TC1	0.95815982	0.002589278
RP11-34P13.14	SH3TC1	0.935384072	0.006127934
RP11-473M20.11	SH3TC1	0.989965956	0.000150518
RP11-78A19.3	SH3TC1	0.926083991	0.007993442
Z69720.3	SH3TC1	0.919293666	0.009507428
LLNLR-284B4.1	SH3TC2	-0.946478365	0.00422019
CTD-2541M15.3	SH3TC2	0.943518486	0.00469515
CCDC144NL-AS1	SH3YL1	-0.92213694	0.008857956
CTA-315H11.2	SH3YL1	-0.97545585	0.00089623
RP3-438O4.4	SH3YL1	0.943093738	0.004765344
PSMD5-AS1	SH3YL1	0.957229421	0.002704863
TOPORS-AS1	SH3YL1	0.936086095	0.005996937
AC087294.2	SH3YL1	0.957376913	0.002686374
LL21NC02-21A1.1	FBXO9	0.824551678	0.043472836
AP001062.8	SH3YL1	0.930886973	0.006999853
RP11-455F5.3	SH3YL1	0.963159395	0.002010845
CCDC144NL-AS1	GLRX5	-0.848481419	0.032697548
RP11-326C3.2	SH3YL1	0.987353573	0.000238887
AP006621.8	SH3YL1	0.967614198	0.001556277
JHDM1D-AS1	SH3YL1	0.968776045	0.001447182
RP11-20I23.6	SH3YL1	0.970051483	0.00133194
RP11-160E2.19	SH3YL1	0.972502598	0.001123765
AC005786.7	SH3YL1	0.946774769	0.004173996
RP11-20I23.8	SH3YL1	0.968749564	0.001449625
CDC37L1-AS1	SH3YL1	0.951444875	0.003479164
RP5-1142A6.10	SH3YL1	0.960251721	0.002338489
RP11-556I13.1	SH3YL1	0.968905819	0.00143524
RP5-1033H22.2	SHANK1	0.985858797	0.000298546
RP11-298J23.8	SHANK1	0.969848405	0.001349972
RP11-165D6.1	SHANK1	0.979483152	0.000627093
RP11-66D17.5	SHARPIN	0.981249511	0.000524075
RP11-126K1.8	SHARPIN	0.994070677	5.26E-05
RP3-438O4.4	SHARPIN	0.983558638	0.000403255
NUP50-AS1	SHARPIN	0.997325657	1.07E-05
PSMD5-AS1	SHARPIN	0.982757255	0.000443405
TOPORS-AS1	SHARPIN	0.964260835	0.001893107
AC087294.2	SHARPIN	0.992186271	9.13E-05
LL21NC02-21A1.1	GLRX5	0.857275018	0.029101947
AP001062.8	SHARPIN	0.998007198	5.95E-06
RP11-455F5.3	SHARPIN	0.991274033	0.000113882
RP11-326C3.2	SHARPIN	0.965518806	0.001762931
AP006621.8	SHARPIN	0.978365706	0.000697001
JHDM1D-AS1	SHARPIN	0.986212944	0.000283814
RP11-20I23.6	SHARPIN	0.983271896	0.000417404
AC005786.7	SHARPIN	0.985482301	0.000314615
AC005944.2	SHARPIN	0.985520851	0.000312951
CTB-191K22.5	SHARPIN	0.997937476	6.38E-06
RP11-680G24.6	HBEGF	0.828776725	0.041466203
LA16c-359F1.1	HBEGF	0.881210236	0.02032839
RP11-20I23.8	SHARPIN	0.987527966	0.000232357
CDC37L1-AS1	SHARPIN	0.982431038	0.000460291
RP5-1142A6.10	SHARPIN	0.973655862	0.001031879
RP11-556I13.1	SHARPIN	0.986045093	0.00029075
RP11-93O14.2	PDE9A	0.905745539	0.012907181
RP11-485G7.6	PDE9A	0.884579069	0.019214169
AC011558.5	SHCBP1	-0.936426394	0.005933935
CCDC144NL-AS1	SHPK	0.966258041	0.001688572
CTD-2531D15.5	SHPK	0.923280719	0.008602993
CCDC144NL-AS1	SEC14L1	-0.906490345	0.012707257
CTA-315H11.2	SHPK	0.925592096	0.008098823
AC011558.5	SIDT1	0.949100576	0.003820193

CTA-315H11.2	SIGIRR	-0.956239015	0.002830634
RP11-66D17.5	SIGIRR	0.923660982	0.00851903
RP11-126K1.8	SIGIRR	0.953486737	0.00319491
RP3-438O4.4	SIGIRR	0.972000958	0.001164945
NUP50-AS1	SIGIRR	0.968902985	0.001435501
PSMD5-AS1	SIGIRR	0.991726447	0.000102394
TOPORS-AS1	SIGIRR	0.970926562	0.00125561
AC087294.2	SIGIRR	0.987660849	0.000227443
AP001062.8	SIGIRR	0.975475431	0.000894807
RP11-455F5.3	SIGIRR	0.990723139	0.000128691
RP11-326C3.2	SIGIRR	0.99857203	3.06E-06
AP006621.8	SIGIRR	0.994008394	5.37E-05
JHDM1D-AS1	SIGIRR	0.990152398	0.000144985
RP11-20I23.6	SIGIRR	0.996731948	1.60E-05
RP11-160E2.19	SIGIRR	0.979599623	0.000620018
AC005786.7	SIGIRR	0.986697255	0.000264267
AC005944.2	SIGIRR	0.974375168	0.000976535
CTB-191K22.5	SIGIRR	0.960418708	0.002319012
RP11-20I23.8	SIGIRR	0.992336127	8.79E-05
CDC37L1-AS1	SIGIRR	0.975732097	0.000876251
AC011558.5	SEC14L1	0.834417446	0.038856437
CCDC144NL-AS1	TNK2	-0.906177477	0.012791055
RP5-1142A6.10	SIGIRR	0.994307951	4.85E-05
RP11-66D17.5	TNK2	0.867584265	0.025140006
RP11-556I13.1	SIGIRR	0.990123756	0.000145829
RP11-770G2.2	SIGLEC1	0.939405027	0.005396381
CTA-315H11.2	SIGLEC10	-0.945939185	0.004304859
RP11-126K1.8	SIGLEC10	0.934149111	0.006361734
RP3-438O4.4	SIGLEC10	0.95564515	0.002907398
NUP50-AS1	SIGLEC10	0.955337775	0.002947527
PSMD5-AS1	SIGLEC10	0.985901215	0.000296762
TOPORS-AS1	SIGLEC10	0.965106911	0.00180505
AC087294.2	SIGLEC10	0.974668261	0.000954418
AP001062.8	SIGLEC10	0.960050726	0.002362038
RP11-455F5.3	SIGLEC10	0.978494925	0.00068873
RP11-326C3.2	SIGLEC10	0.995004926	3.74E-05
AP006621.8	SIGLEC10	0.988279557	0.000205248
JHDM1D-AS1	SIGLEC10	0.977603038	0.000746818
RP11-20I23.6	SIGLEC10	0.990009355	0.000149221
RP11-160E2.19	SIGLEC10	0.988455246	0.000199153
AC005786.7	SIGLEC10	0.979508346	0.000625559
AC005944.2	SIGLEC10	0.969916157	0.001343943
CTB-191K22.5	SIGLEC10	0.944708794	0.00450116
RP11-20I23.8	SIGLEC10	0.980874623	0.000545172
CDC37L1-AS1	SIGLEC10	0.959491392	0.002428185
AC024028.1	NAAA	0.902844645	0.013700212
RP5-1142A6.10	SIGLEC10	0.993395362	6.53E-05
LLNLR-284B4.1	NAAA	0.836341867	0.037984268
CTD-2541M15.3	NAAA	-0.823815064	0.043827208
AC011558.5	NAAA	0.879354406	0.020955019
CCDC144NL-AS1	ITGB7	-0.85330176	0.03070206
CTA-315H11.2	ITGB7	-0.877772143	0.021496453
CTD-2541M15.3	ITGB7	-0.812414467	0.049482087
PSMD5-AS1	ITGB7	0.849932362	0.03209066
RP11-326C3.2	ITGB7	0.873670366	0.022930706
AP006621.8	ITGB7	0.860011781	0.028023398
RP11-20I23.6	ITGB7	0.821271705	0.045061074
RP11-556I13.1	SIGLEC10	0.977577138	0.00074854
RP5-1142A6.10	ITGB7	0.835076704	0.038556609
RP11-498J9.2	SIGLEC6	0.95094667	0.003550327
AC024028.1	C16orf54	0.900584693	0.014333824
RP11-34P13.14	SIGLEC6	0.984186566	0.00037312
AC011558.5	C16orf54	0.883632692	0.01952414

CCDC144NL-AS1	MAPK1	-0.915556668	0.010394945
RP11-93O14.2	SIGLEC6	0.958626181	0.002532278
RP11-66D17.5	MAPK1	0.90805868	0.01229121
RP11-78A19.3	SIGLEC6	0.941058417	0.005108781
RP11-680G24.6	SIGLEC6	0.925648444	0.008086717
Z69720.3	SIGLEC6	0.978814063	0.000668511
AC024028.1	SIK1	0.960257041	0.002337867
RP11-498J9.2	SIK1	0.997406481	1.01E-05
RP11-34P13.14	SIK1	0.989417983	0.000167376
RP11-93O14.2	SIK1	0.98661832	0.000267406
RP11-485G7.6	SIK1	0.953265199	0.003225175
RP11-78A19.3	SIK1	0.983088486	0.000426581
Z69720.3	SIK1	0.992028536	9.51E-05
Z69720.3	SIL1	0.947795952	0.004016759
NUP50-AS1	SIPA1	0.927680739	0.007655996
PSMD5-AS1	SIPA1	0.938365171	0.005581207
AP006621.8	SIPA1	0.927556215	0.007682057
AC005786.7	SIPA1	0.921798035	0.008934197
AC005944.2	SIPA1	0.96732654	0.001583892
RMRP	MAPK1	0.822243023	0.044587973
CTB-191K22.5	SIPA1	0.925687427	0.008078347
RP5-1142A6.10	SIPA1	0.93379399	0.006429755
AC024028.1	SIPA1L3	0.972159293	0.001151868
RP11-498J9.2	SIPA1L3	0.965583575	0.001756352
AC011558.5	MAPK1	0.815895951	0.047721412
CCDC144NL-AS1	LEF1	-0.889013264	0.017793513
RP11-34P13.14	SIPA1L3	0.987918666	0.000218056
RP11-66D17.5	LEF1	0.904474939	0.013251721
RP11-93O14.2	SIPA1L3	0.945229859	0.004417504
RP11-473M20.11	SIPA1L3	0.930523663	0.007072762
RP11-78A19.3	SIPA1L3	0.937171596	0.005797108
Z69720.3	SIPA1L3	0.968740858	0.001450429
PSMD5-AS1	SIRPB1	0.960003497	0.002367589
TOPORS-AS1	SIRPB1	0.93514957	0.006172001
AC087294.2	SIRPB1	0.932961622	0.006590576
RP11-455F5.3	SIRPB1	0.93858832	0.005541288
RP11-326C3.2	SIRPB1	0.971806455	0.001181109
AP006621.8	SIRPB1	0.962333674	0.002101409
JHDM1D-AS1	SIRPB1	0.936567554	0.005907897
RP11-20I23.6	SIRPB1	0.960065969	0.002360248
RP11-160E2.19	SIRPB1	0.990219677	0.000143014
AC005786.7	SIRPB1	0.948198169	0.003955641
AC005944.2	SIRPB1	0.947010239	0.004137477
RP11-20I23.8	SIRPB1	0.942066464	0.004937221
RP5-1142A6.10	SIRPB1	0.974312168	0.000981322
RP11-556I13.1	SIRPB1	0.936533113	0.005914245
AC011558.5	SIRPB1	0.949141583	0.003814093
CTA-315H11.2	SIRPG	-0.954671156	0.003035488
AC011558.5	LEF1	0.879000541	0.021075535
RP11-66D17.5	SIRPG	0.937290212	0.005775473
RP11-126K1.8	SIRPG	0.965391411	0.001775905
RP3-438O4.4	SIRPG	0.986021189	0.000291745
RP11-93O14.2	DLGAP4	0.892850941	0.016606296
RP11-485G7.6	DLGAP4	0.827255541	0.042183569
NUP50-AS1	SIRPG	0.977474945	0.000755353
RP11-78A19.3	DLGAP4	0.89371141	0.016345511
PSMD5-AS1	SIRPG	0.987962486	0.00021648
TOPORS-AS1	SIRPG	0.977587677	0.000747839
RP11-498J9.2	NCR3	0.813049694	0.04915863
RP11-34P13.14	NCR3	0.824157314	0.04366239
AC087294.2	SIRPG	0.995916886	2.50E-05
AC011558.5	NCR3	0.833657623	0.039203351
CCDC144NL-AS1	UBL7	-0.826363828	0.042606757

AP001062.8	SIRPG	0.985703911	0.000305106
RP11-455F5.3	SIRPG	0.997441958	9.81E-06
RP11-326C3.2	SIRPG	0.995815219	2.62E-05
AP006621.8	SIRPG	0.990664844	0.000130311
JHDM1D-AS1	SIRPG	0.998090993	5.46E-06
RP11-20I23.6	SIRPG	0.998651603	2.73E-06
RP11-160E2.19	SIRPG	0.961960806	0.002142949
AC005786.7	SIRPG	0.990589558	0.000132418
AC005944.2	SIRPG	0.968553319	0.001467792
CTB-191K22.5	SIRPG	0.969422141	0.001388213
RP11-20I23.8	SIRPG	0.998758586	2.31E-06
CDC37L1-AS1	SIRPG	0.988576208	0.000195009
RP5-1142A6.10	SIRPG	0.991172164	0.000116552
RP11-556I13.1	SIRPG	0.998084712	5.50E-06
RP11-498J9.2	SIRT1	0.937628681	0.005713954
RP11-34P13.14	SIRT1	0.950215848	0.003655999
RP11-93O14.2	SIRT1	0.982920371	0.000435079
RP11-485G7.6	SIRT1	0.931041926	0.006968869
RP11-78A19.3	SIRT1	0.976784402	0.00080219
RP11-680G24.6	SIRT1	0.968180802	0.001502584
LL21NC02-21A1.1	UBL7	0.867967281	0.024998119
LA16c-359F1.1	SIRT1	0.983803954	0.000391344
Z69720.3	SIRT1	0.937609621	0.00571741
CCDC144NL-AS1	DGKA	-0.903755122	0.013448853
CTD-2139B15.2	SIRT4	0.953851573	0.003145375
RP11-66D17.5	DGKA	0.901465518	0.014085228
RP11-91K8.5	SIRT4	0.968730054	0.001451426
CTA-315H11.2	SIT1	-0.953828532	0.003148492
RP11-66D17.5	SIT1	0.942247548	0.004906706
RP11-126K1.8	SIT1	0.969676288	0.00136535
RP3-438O4.4	SIT1	0.988272047	0.000205511
NUP50-AS1	SIT1	0.980219385	0.000583039
PSMD5-AS1	SIT1	0.987857288	0.000220273
TOPORS-AS1	SIT1	0.977135678	0.000778189
AC087294.2	SIT1	0.997363619	1.04E-05
AP001062.8	SIT1	0.988427993	0.000200092
RP11-455F5.3	SIT1	0.998593568	2.97E-06
RP11-326C3.2	SIT1	0.994015561	5.36E-05
AP006621.8	SIT1	0.990175522	0.000144306
JHDM1D-AS1	SIT1	0.999050189	1.35E-06
RP11-20I23.6	SIT1	0.99826339	4.52E-06
RP11-160E2.19	SIT1	0.956874408	0.002749622
AC005786.7	SIT1	0.990834054	0.000125637
AC005944.2	SIT1	0.969358019	0.001394011
CTB-191K22.5	SIT1	0.97307033	0.001078046
RP11-20I23.8	SIT1	0.999528087	3.34E-07
AC011558.5	DGKA	0.890371297	0.017368895
CCDC144NL-AS1	GPS2	-0.8176352	0.046852935
CTA-315H11.2	GPS2	-0.910191577	0.011736152
CDC37L1-AS1	SIT1	0.990652395	0.000130658
RP5-1142A6.10	SIT1	0.989514984	0.000164327
RP11-556I13.1	SIT1	0.999036031	1.39E-06
CTD-2139B15.2	SKA1	0.93079296	0.007018684
RP11-91K8.5	SKA1	0.92257539	0.008759792
AC011558.5	SKA2L	-0.959990871	0.002369074
AC011558.5	SKAP1	0.949677378	0.003734832
RP11-498J9.2	SKAP2	0.960454741	0.00231482
RP11-34P13.14	SKAP2	0.975525492	0.000891172
RP11-93O14.2	SKAP2	0.985969283	0.00029391
RP11-485G7.6	SKAP2	0.923960677	0.008453139
RP11-78A19.3	SKAP2	0.988706457	0.000190596
RP11-680G24.6	SKAP2	0.939055993	0.00545808
RP11-160E2.19	GPS2	0.916383616	0.010195239

LA16c-359F1.1	SKAP2	0.963377938	0.001987205
Z69720.3	SKAP2	0.948991587	0.003836429
AC024028.1	SKIL	0.973533738	0.001041425
RP11-498J9.2	SKIL	0.995688187	2.78E-05
RP11-34P13.14	SKIL	0.992179814	9.15E-05
LL21NC02-21A1.1	GPS2	0.888381305	0.017992786
RP11-93O14.2	SKIL	0.980798389	0.000549513
RP11-485G7.6	SKIL	0.940080866	0.00527789
CCDC144NL-AS1	SRXN1	-0.864780758	0.026190174
RP11-473M20.11	SKIL	0.926390376	0.007928143
RP11-78A19.3	SKIL	0.980147139	0.000587292
Z69720.3	SKIL	0.987543973	0.000231763
RP11-160E2.19	SLA	0.955643595	0.002907601
AC011558.5	SLA	0.976073687	0.000851854
RP5-1033H22.2	SLC10A4	0.957063799	0.002725699
RP11-21J18.1	SLC10A4	0.927892249	0.007611829
RP11-298J23.8	SLC10A4	0.95316501	0.003238908
RP11-165D6.1	SLC10A4	0.964098682	0.00191022
RP11-118G23.2	SLC10A7	0.977477715	0.000755168
RP11-680G24.6	SLC10A7	0.939002431	0.005467578
CTA-315H11.2	SLC11A1	-0.951773129	0.003432663
RP11-66D17.5	SLC11A1	0.930119908	0.007154221
RP11-126K1.8	SLC11A1	0.956757823	0.0027644
RP3-438O4.4	SLC11A1	0.976837342	0.00079855
NUP50-AS1	SLC11A1	0.973018435	0.001082186
PSMD5-AS1	SLC11A1	0.990584095	0.000132572
TOPORS-AS1	SLC11A1	0.975998298	0.000857209
AC087294.2	SLC11A1	0.990468622	0.000135838
AP001062.8	SLC11A1	0.979112716	0.000649862
LL21NC02-21A1.1	SRXN1	0.840525325	0.036120364
RP11-455F5.3	SLC11A1	0.992757372	7.85E-05
RP11-326C3.2	SLC11A1	0.997772036	7.44E-06
CCDC144NL-AS1	VAV1	-0.863834817	0.026549119
CTA-315H11.2	VAV1	-0.912258861	0.011210023
PSMD5-AS1	VAV1	0.874633675	0.0225899
AC087294.2	VAV1	0.816014539	0.047661961
RP11-455F5.3	VAV1	0.830563001	0.04063117
RP11-326C3.2	VAV1	0.904795518	0.013164378
AP006621.8	VAV1	0.885504985	0.018913199
JHDM1D-AS1	VAV1	0.832189994	0.039877516
RP11-20I23.6	VAV1	0.858136934	0.028760188
AP006621.8	SLC11A1	0.992698759	7.98E-05
AC005786.7	VAV1	0.819422959	0.045967968
AC005944.2	VAV1	0.828567148	0.041564695
RP11-20I23.8	VAV1	0.838473813	0.037028897
RP5-1142A6.10	VAV1	0.867362819	0.025222215
RP11-556I13.1	VAV1	0.83225629	0.039846946
JHDM1D-AS1	SLC11A1	0.99251415	8.38E-05
RP11-20I23.6	SLC11A1	0.998282867	4.42E-06
RP11-160E2.19	SLC11A1	0.975045443	0.000926325
RP11-66D17.5	MTMR3	0.892145607	0.016821543
AC005786.7	SLC11A1	0.989951274	0.000150958
AC005944.2	SLC11A1	0.974282839	0.000983554
CTB-191K22.5	SLC11A1	0.964270948	0.001892043
RP11-20I23.8	SLC11A1	0.994377213	4.73E-05
CDC37L1-AS1	SLC11A1	0.979785487	0.00060881
RP5-1142A6.10	SLC11A1	0.99569654	2.77E-05
RP11-556I13.1	SLC11A1	0.99249322	8.43E-05
CTA-315H11.2	SLC14A1	-0.942347974	0.004889823
RP11-66D17.5	SLC14A1	0.957297973	0.002696262
RP11-126K1.8	SLC14A1	0.980351509	0.000575302
RP3-438O4.4	SLC14A1	0.993827226	5.70E-05
NUP50-AS1	SLC14A1	0.987717911	0.000225348

PSMD5-AS1	SLC14A1	0.983416748	0.000410226
TOPORS-AS1	SLC14A1	0.977561759	0.000749563
AC087294.2	SLC14A1	0.999632478	2.03E-07
AP001062.8	SLC14A1	0.995049855	3.67E-05
RP11-455F5.3	SLC14A1	0.999515201	3.52E-07
RP11-326C3.2	SLC14A1	0.985155988	0.000328882
AP006621.8	SLC14A1	0.984503416	0.000358355
JHDM1D-AS1	SLC14A1	0.999409408	5.23E-07
AC011558.5	MTMR3	0.878092274	0.021386375
CCDC144NL-AS1	NCF2	-0.882700969	0.019831632
RP11-20I23.6	SLC14A1	0.995019018	3.72E-05
RP11-66D17.5	NCF2	0.903272077	0.013581929
RP11-160E2.19	SLC14A1	0.936935453	0.005840298
AC005786.7	SLC14A1	0.990965968	0.000122052
AC005944.2	SLC14A1	0.968516597	0.001471204
CTB-191K22.5	SLC14A1	0.982278927	0.000468272
RP11-20I23.8	SLC14A1	0.999248149	8.48E-07
CDC37L1-AS1	SLC14A1	0.994604993	4.36E-05
RP5-1142A6.10	SLC14A1	0.98358206	0.00040211
RP11-556I13.1	SLC14A1	0.999373751	5.88E-07
RP11-91K8.5	SLC16A9	0.921677051	0.008961491
RP11-485G7.6	SLC1A4	0.949144529	0.003813655
AC024028.1	SLC22A15	0.956058668	0.002853839
RP11-498J9.2	SLC22A15	0.999355418	6.23E-07
RP11-34P13.14	SLC22A15	0.979793703	0.000608317
RP11-93O14.2	SLC22A15	0.985352057	0.000320272
RP11-485G7.6	SLC22A15	0.968411177	0.00148102
RP11-78A19.3	SLC22A15	0.984374276	0.000364337
Z69720.3	SLC22A15	0.990226915	0.000142803
RP11-767C1.1	SLC22A16	0.952051972	0.003393403
CTC-1337H24.3	SLC22A16	0.939907025	0.005308246
AC024028.1	SLC22A17	0.967048232	0.001610839
AC011558.5	NCF2	0.903992952	0.013383564
RP11-498J9.2	SLC22A17	0.999942981	4.88E-09
RP11-498J9.2	BACH2	0.879515337	0.02090032
RP11-34P13.14	BACH2	0.866694214	0.025471198
RP11-34P13.14	SLC22A17	0.978505972	0.000688025
RP11-78A19.3	BACH2	0.828133657	0.041768762
Z69720.3	BACH2	0.836765864	0.037793356
CCDC144NL-AS1	PLSCR3	-0.869203933	0.024542613
CTA-315H11.2	PLSCR3	-0.909423518	0.011934599
PSMD5-AS1	PLSCR3	0.898986543	0.014790221
TOPORS-AS1	PLSCR3	0.82267518	0.044378229
AC087294.2	PLSCR3	0.83980626	0.036437603
RP11-455F5.3	PLSCR3	0.853755904	0.030517117
RP11-93O14.2	SLC22A17	0.981703283	0.000499092
AP006621.8	PLSCR3	0.90743451	0.012455987
JHDM1D-AS1	PLSCR3	0.851921071	0.031267563
RP11-20I23.6	PLSCR3	0.879703221	0.020836546
RP11-485G7.6	SLC22A17	0.963445423	0.001979933
AC005786.7	PLSCR3	0.8462091	0.033658758
AC005944.2	PLSCR3	0.860475019	0.027842749
RP11-20I23.8	PLSCR3	0.858921606	0.02845072
RP5-1142A6.10	PLSCR3	0.892177232	0.016811864
RP11-556I13.1	PLSCR3	0.851899526	0.031276426
RP11-473M20.11	SLC22A17	0.918926981	0.009592812
AC024028.1	PRKCD	0.817035808	0.047151398
RP11-473M20.11	PRKCD	0.894617586	0.01607302
LLNLR-284B4.1	PRKCD	0.851527671	0.031429584
CTD-2541M15.3	PRKCD	-0.83587882	0.038193278
RP11-160E2.19	PRKCD	0.836922509	0.037722939
RP11-78A19.3	SLC22A17	0.982377403	0.000463097
CCDC144NL-AS1	YY1AP1	-0.859334971	0.028288331

Z69720.3	SLC22A17	0.985714544	0.000304654
AC024028.1	SLC22A18	0.99355694	6.21E-05
RP11-498J9.2	SLC22A18	0.961279217	0.002219922
RP11-34P13.14	SLC22A18	0.929261796	0.007328857
RP11-473M20.11	SLC22A18	0.986096914	0.0002886
RP11-78A19.3	SLC22A18	0.918001097	0.009810057
Z69720.3	SLC22A18	0.926537143	0.007896955
RP11-66D17.5	SLC22A23	0.937739461	0.005693889
RP11-126K1.8	SLC22A23	0.933224386	0.006539598
CTB-191K22.5	SLC22A23	0.917647705	0.009893598
LL21NC02-21A1.1	SLC22A23	0.93271188	0.006639207
AC024028.1	SLC24A3	0.947349647	0.004085114
RP11-498J9.2	SLC24A3	0.991179365	0.000116362
RP11-34P13.14	SLC24A3	0.993726641	5.89E-05
RP11-93O14.2	SLC24A3	0.987693182	0.000226255
RP11-485G7.6	SLC24A3	0.94431178	0.004565417
RP11-78A19.3	SLC24A3	0.981220747	0.000525679
LA16c-359F1.1	SLC24A3	0.918241077	0.009753523
Z69720.3	SLC24A3	0.993713771	5.92E-05
CTD-2531D15.5	SLC25A10	0.946723774	0.004181926
LL21NC02-21A1.1	YY1AP1	0.830925611	0.040462631
RP11-770G2.2	SLC25A10	0.946909289	0.004153114
RP5-1033H22.2	SLC25A13	0.950315706	0.00364147
CCDC144NL-AS1	GZMM	-0.899218751	0.01472348
RP11-298J23.8	SLC25A13	0.935836671	0.006043321
RP11-66D17.5	GZMM	0.908433027	0.012192894
RP11-165D6.1	SLC25A13	0.945898661	0.004311256
RP11-160E2.19	SLC25A15	-0.954199891	0.003098439
AC011558.5	SLC25A15	-0.968031766	0.001516617
AC011558.5	SLC25A21	-0.935873998	0.006036369
AC024028.1	SLC25A29	0.974346419	0.000978718
RP11-498J9.2	SLC25A29	0.996167119	2.20E-05
RP11-34P13.14	SLC25A29	0.967065112	0.001609198
RP11-93O14.2	SLC25A29	0.967801188	0.001538454
RP11-485G7.6	SLC25A29	0.954606409	0.003044099
RP11-473M20.11	SLC25A29	0.932963541	0.006590203
RP11-78A19.3	SLC25A29	0.967974707	0.001522006
Z69720.3	SLC25A29	0.977267024	0.000769308
RP11-34P13.14	SLC25A36	0.957041154	0.002728554
RP11-93O14.2	SLC25A36	0.959285585	0.00245275
RP11-78A19.3	SLC25A36	0.951106441	0.003527428
RP11-680G24.6	SLC25A36	0.977712443	0.000739567
LA16c-359F1.1	SLC25A36	0.958235438	0.002579993
Z69720.3	SLC25A36	0.920183611	0.009301742
CTA-315H11.2	SLC25A37	-0.944603145	0.004518216
RP11-66D17.5	SLC25A37	0.95240298	0.003344299
AC011558.5	GZMM	0.88096728	0.020409908
RP11-156P1.3	ATG9A	-0.822208663	0.044604668
CTA-315H11.2	ATG9A	-0.81801515	0.046664197
RP11-126K1.8	SLC25A37	0.975249543	0.000911297
RP3-438O4.4	SLC25A37	0.99390954	5.55E-05
NUP50-AS1	SLC25A37	0.984881892	0.000341108
PSMD5-AS1	SLC25A37	0.982536386	0.000454804
PSMD5-AS1	ATG9A	0.917162993	0.010008742
TOPORS-AS1	ATG9A	0.895199459	0.01589921
TOPORS-AS1	SLC25A37	0.979548817	0.000623099
AC087294.2	SLC25A37	0.999253227	8.36E-07
AP001062.8	SLC25A37	0.992697417	7.98E-05
RP11-326C3.2	ATG9A	0.879271417	0.020983253
AP006621.8	ATG9A	0.9097017	0.011862538
RP11-455F5.3	SLC25A37	0.999151333	1.08E-06
RP11-20I23.6	ATG9A	0.905597842	0.012947006
AC005786.7	ATG9A	0.913977909	0.010781427

RP11-326C3.2	SLC25A37	0.987536749	0.000232031
AP006621.8	SLC25A37	0.984329329	0.000366431
RMRP	ATG9A	0.858378518	0.02866474
JHDM1D-AS1	SLC25A37	0.999947932	4.07E-09
CDC37L1-AS1	ATG9A	0.909326497	0.011959782
LL21NC02-21A1.1	ATG9A	0.894459059	0.016120531
RP5-1142A6.10	ATG9A	0.889198041	0.017735449
RP11-20I23.6	SLC25A37	0.996282118	2.07E-05
CCDC144NL-AS1	NTAN1	-0.869326071	0.024497841
RP11-160E2.19	SLC25A37	0.941556076	0.005023725
AC005786.7	SLC25A37	0.991600077	0.000105542
AC005944.2	SLC25A37	0.965964941	0.001717865
CTB-191K22.5	SLC25A37	0.978433495	0.000692656
RP11-20I23.8	SLC25A37	0.999713743	1.23E-07
CDC37L1-AS1	SLC25A37	0.995160591	3.51E-05
RP5-1142A6.10	SLC25A37	0.98557645	0.000310558
RP11-556I13.1	SLC25A37	0.999937954	5.77E-09
CTA-315H11.2	SLC25A39	-0.94267282	0.004835408
RP11-66D17.5	SLC25A39	0.956069092	0.002852495
RP11-126K1.8	SLC25A39	0.977477551	0.000755179
RP3-438O4.4	SLC25A39	0.994111073	5.19E-05
NUP50-AS1	SLC25A39	0.987023066	0.000251509
PSMD5-AS1	SLC25A39	0.9835493	0.000403712
TOPORS-AS1	SLC25A39	0.979604976	0.000619694
AC087294.2	SLC25A39	0.999652592	1.81E-07
AP001062.8	SLC25A39	0.994082647	5.24E-05
RP11-455F5.3	SLC25A39	0.999423027	4.99E-07
RP11-326C3.2	SLC25A39	0.986720741	0.000263337
AP006621.8	SLC25A39	0.984763738	0.000346447
LL21NC02-21A1.1	NTAN1	0.812776901	0.049297415
JHDM1D-AS1	SLC25A39	0.999772179	7.78E-08
RP11-20I23.6	SLC25A39	0.996366769	1.98E-05
AC011558.5	NTAN1	0.822684106	0.044373902
CCDC144NL-AS1	FAM102A	-0.903741451	0.013452611
RP11-160E2.19	SLC25A39	0.940627663	0.005182966
RP11-66D17.5	FAM102A	0.890018441	0.01747875
AC005786.7	SLC25A39	0.992411246	8.62E-05
AC005944.2	SLC25A39	0.968954711	0.001430754
CTB-191K22.5	SLC25A39	0.981181221	0.000527887
RP11-20I23.8	SLC25A39	0.99969923	1.36E-07
CDC37L1-AS1	SLC25A39	0.995206403	3.44E-05
RP5-1142A6.10	SLC25A39	0.985973525	0.000293733
RP11-556I13.1	SLC25A39	0.999750411	9.34E-08
RP11-160E2.19	SLC25A4	-0.932612233	0.006658659
RP11-66D17.5	SLC25A42	0.964378071	0.001880782
RP11-126K1.8	SLC25A42	0.96882291	0.001442864
NUP50-AS1	SLC25A42	0.953814688	0.003150366
AP001062.8	SLC25A42	0.943133834	0.004758696
AC005944.2	SLC25A42	0.943544337	0.004690894
CTB-191K22.5	SLC25A42	0.962905214	0.002038513
LL21NC02-21A1.1	SLC25A42	0.943602725	0.004681289
RP3-339A18.6	SLC25A43	0.941694779	0.005000144
CTA-315H11.2	SLC25A45	-0.934169849	0.006357772
RP11-66D17.5	SLC25A45	0.966668158	0.001648002
RP11-126K1.8	SLC25A45	0.983819106	0.000390614
RP3-438O4.4	SLC25A45	0.986311364	0.000279786
AC011558.5	FAM102A	0.901049286	0.01420244
NUP50-AS1	SLC25A45	0.993234815	6.85E-05
RP11-498J9.2	PDE4DIP	0.812807268	0.049281957
PSMD5-AS1	SLC25A45	0.991516654	0.000107645
RP11-126K1.8	DNAJA4	0.830996449	0.040429744
RMRP	DNAJA4	0.912865907	0.011057749
CCDC144NL-AS1	PLEKHO1	-0.872683919	0.023282219

TOPORS-AS1	SLC25A45	0.974820879	0.000943001
RP11-126K1.8	PLEKHO1	0.823983074	0.043746263
RP3-438O4.4	PLEKHO1	0.843823464	0.034682006
NUP50-AS1	PLEKHO1	0.845925032	0.033779843
AC087294.2	SLC25A45	0.996902324	1.44E-05
TOPORS-AS1	PLEKHO1	0.87009585	0.02421656
AC087294.2	PLEKHO1	0.882124319	0.020023092
AP001062.8	PLEKHO1	0.854510516	0.030210983
RP11-455F5.3	PLEKHO1	0.893511332	0.016405973
AP001062.8	SLC25A45	0.995737764	2.72E-05
RP11-455F5.3	SLC25A45	0.997170097	1.20E-05
JHDM1D-AS1	PLEKHO1	0.891152867	0.017126754
RP11-20I23.6	PLEKHO1	0.916841755	0.010085409
RP11-326C3.2	SLC25A45	0.98396565	0.000383589
AC005786.7	PLEKHO1	0.890278859	0.017397642
AC005944.2	PLEKHO1	0.899513892	0.01463886
CTB-191K22.5	PLEKHO1	0.830606514	0.040610928
RP11-20I23.8	PLEKHO1	0.897596296	0.015192849
CDC37L1-AS1	PLEKHO1	0.852993671	0.030827824
AP006621.8	SLC25A45	0.989560619	0.000162902
RP11-556I13.1	PLEKHO1	0.89111357	0.017138889
JHDM1D-AS1	SLC25A45	0.994092491	5.22E-05
CCDC144NL-AS1	OPTN	-0.866178199	0.025664153
RP11-20I23.6	SLC25A45	0.995110654	3.58E-05
RP11-160E2.19	SLC25A45	0.945128928	0.004433648
AC005786.7	SLC25A45	0.993363601	6.59E-05
AC005944.2	SLC25A45	0.987495719	0.000233558
CTB-191K22.5	SLC25A45	0.990214774	0.000143157
RP11-20I23.8	SLC25A45	0.995724295	2.74E-05
CDC37L1-AS1	SLC25A45	0.986979536	0.000253195
RP5-1142A6.10	SLC25A45	0.988761409	0.000188749
RP11-556I13.1	SLC25A45	0.993985429	5.42E-05
RP11-498J9.2	SLC27A2	0.92263004	0.008747593
RP11-34P13.14	SLC27A2	0.956194756	0.00283632
RP11-93O14.2	SLC27A2	0.953163953	0.003239053
RP11-78A19.3	SLC27A2	0.929744552	0.007230358
RP11-680G24.6	SLC27A2	0.944563457	0.004524631
Z69720.3	SLC27A2	0.952038679	0.00339527
AC011558.5	SLC27A3	0.921383409	0.009027905
AC024028.1	SLC29A4	0.952407393	0.003343684
RP11-498J9.2	SLC29A4	0.998829464	2.05E-06
RP11-34P13.14	SLC29A4	0.973979929	0.001006758
RP11-93O14.2	SLC29A4	0.98404377	0.000379871
LL21NC02-21A1.1	OPTN	0.826422057	0.042579062
RP11-485G7.6	SLC29A4	0.972276167	0.001142262
RP11-78A19.3	SLC29A4	0.981941623	0.000486213
Z69720.3	SLC29A4	0.988021624	0.000214363
RP11-66D17.5	SLC2A1	0.979800783	0.000607892
RP11-126K1.8	SLC2A1	0.989376205	0.000168698
RP3-438O4.4	SLC2A1	0.938195844	0.005611592
NUP50-AS1	SLC2A1	0.975358262	0.000903341
PSMD5-AS1	SLC2A1	0.937988257	0.005648953
AC087294.2	SLC2A1	0.947856699	0.004007499
AP001062.8	SLC2A1	0.970966459	0.001252183
CTA-315H11.2	SEPX1	-0.892246271	0.016790742
RP11-455F5.3	SLC2A1	0.945852344	0.004318573
AP006621.8	SLC2A1	0.927764848	0.007638417
JHDM1D-AS1	SLC2A1	0.933790581	0.00643041
RP11-20I23.6	SLC2A1	0.924577892	0.008318222
AC005786.7	SLC2A1	0.934526631	0.006289809
AC005944.2	SLC2A1	0.955932565	0.00287012
CTB-191K22.5	SLC2A1	0.983219288	0.000420026
RP11-20I23.8	SLC2A1	0.93530616	0.006142558

CDC37L1-AS1	SLC2A1	0.931568679	0.006864042
LL21NC02-21A1.1	SLC2A1	0.942414514	0.004878653
RP11-556I13.1	SLC2A1	0.933424739	0.006500858
RP11-498J9.2	SLC2A10	0.93270017	0.006641491
RP11-34P13.14	SLC2A10	0.944817236	0.004483687
RP11-93O14.2	SLC2A10	0.937263968	0.005780256
Z69720.3	SLC2A10	0.970279368	0.001311848
AC024028.1	SLC2A3	0.976684626	0.000809073
RP11-498J9.2	SLC2A3	0.99338452	6.55E-05
RP11-34P13.14	SLC2A3	0.992227179	9.04E-05
RP11-93O14.2	SLC2A3	0.975620538	0.000884292
RP11-485G7.6	SLC2A3	0.930368913	0.00710393
RP11-473M20.11	SLC2A3	0.930676058	0.007042135
AC011558.5	SEPX1	0.894779849	0.016024459
CCDC144NL-AS1	PACS1	-0.878819937	0.021137171
RP11-78A19.3	SLC2A3	0.973047718	0.001079849
RP3-438O4.4	PACS1	0.841905921	0.035514926
NUP50-AS1	PACS1	0.831841631	0.040038329
Z69720.3	SLC2A3	0.986792687	0.000260498
TOPORS-AS1	PACS1	0.862552694	0.027039332
AC087294.2	PACS1	0.877198358	0.021694426
AP001062.8	PACS1	0.84429721	0.034477659
RP11-455F5.3	PACS1	0.888651707	0.017907391
LL21NC02-21A1.1	SLC2A4	0.94785615	0.004007583
AC024028.1	SLC2A6	0.930771532	0.00702298
JHDM1D-AS1	PACS1	0.889507085	0.01763854
RP11-20I23.6	PACS1	0.912753576	0.011085851
RP11-498J9.2	SLC2A6	0.989278015	0.000171825
AC005786.7	PACS1	0.88260042	0.019864953
AC005944.2	PACS1	0.883671565	0.019511361
CTB-191K22.5	PACS1	0.81645919	0.047439353
RP11-20I23.8	PACS1	0.895019706	0.015952806
CDC37L1-AS1	PACS1	0.854134839	0.030363207
RP11-34P13.14	SLC2A6	0.947297217	0.004093182
RP11-556I13.1	PACS1	0.889548446	0.017625589
RP11-93O14.2	SLC2A6	0.971373097	0.001217519
AC024028.1	SPTAN1	0.819365771	0.045996155
RP11-473M20.11	SPTAN1	0.897149871	0.015323242
RP11-160E2.19	SPTAN1	0.840843926	0.03598022
RP11-485G7.6	SLC2A6	0.979960274	0.000598362
RP3-337H4.8	HEBP1	0.896667669	0.015464687
RP11-767C1.1	HEBP1	0.89150764	0.017017379
CTC-1337H24.3	HEBP1	0.888594232	0.017925526
RP11-78A19.3	SLC2A6	0.966881412	0.001627098
Z69720.3	SLC2A6	0.974958495	0.000932764
RP11-66D17.5	MLLT6	0.836153787	0.038069099
RP11-126K1.8	MLLT6	0.894233591	0.01618822
CTD-2139B15.2	SLC2A8	0.946054283	0.004286716
NUP50-AS1	MLLT6	0.906892251	0.012600001
AC024028.1	SLC2A9	0.926784027	0.007844628
RP11-498J9.2	SLC2A9	0.955725001	0.002897018
RP11-485G7.6	SLC2A9	0.9476768	0.004034953
Z69720.3	SLC2A9	0.928066208	0.007575596
MIR210HG	SLC30A10	0.927160088	0.007765248
RP11-91K8.5	SLC30A10	0.977101665	0.000780497
RP3-339A18.6	SLC35B4	0.95904686	0.002481397
AC011558.5	SLC36A1	-0.929798805	0.007219329
AC024028.1	SLC37A1	0.99776597	7.48E-06
RP11-498J9.2	SLC37A1	0.963777862	0.001944302
RP11-34P13.14	SLC37A1	0.941459882	0.005040111
RP11-473M20.11	SLC37A1	0.988624763	0.000193358
CTB-191K22.5	MLLT6	0.893970335	0.016267427
RP11-78A19.3	SLC37A1	0.924818633	0.008265885

Z69720.3	SLC37A1	0.931703254	0.006837385
CTD-2531D15.5	SLC37A2	0.97394683	0.001009309
RP11-770G2.2	SLC37A2	0.93365601	0.00645628
CCDC144NL-AS1	SLC37A3	-0.957941949	0.002616122
CTA-315H11.2	SLC37A3	-0.98385525	0.000388875
RP11-126K1.8	SLC37A3	0.917247506	0.009988619
PSMD5-AS1	SLC37A3	0.975356143	0.000903496
AC087294.2	SLC37A3	0.945669616	0.0043475
AP001062.8	SLC37A3	0.927588422	0.007675312
RP11-455F5.3	SLC37A3	0.956666188	0.002776042
RP11-326C3.2	SLC37A3	0.982525591	0.000455364
AP006621.8	SLC37A3	0.982394747	0.000462189
JHDM1D-AS1	SLC37A3	0.953048861	0.003254864
RP11-20I23.6	SLC37A3	0.957040545	0.002728631
RP11-160E2.19	SLC37A3	0.978009927	0.000720028
AC005786.7	SLC37A3	0.927952001	0.007599374
AC005944.2	SLC37A3	0.932457113	0.006688996
RP11-20I23.8	SLC37A3	0.955904962	0.00287369
CDC37L1-AS1	SLC37A3	0.920859949	0.009146889
RP5-1142A6.10	SLC37A3	0.946556655	0.004207965
RP11-556I13.1	SLC37A3	0.95293478	0.003270574
RP11-66D17.5	SLC38A5	0.991036716	0.000120151
RP11-126K1.8	SLC38A5	0.940613182	0.005185469
RP3-438O4.4	SLC38A5	0.930189283	0.007140192
NUP50-AS1	SLC38A5	0.960886739	0.002264852
CCDC144NL-AS1	TSPAN32	-0.857689715	0.028937276
TOPORS-AS1	SLC38A5	0.920429268	0.009245351
AC087294.2	SLC38A5	0.91986506	0.009375115
AP001062.8	SLC38A5	0.943735857	0.004659424
AC005786.7	SLC38A5	0.931372832	0.006902926
AC005944.2	SLC38A5	0.928856487	0.007412056
CTB-191K22.5	SLC38A5	0.966913964	0.001623919
CDC37L1-AS1	SLC38A5	0.921050496	0.009103489
LL21NC02-21A1.1	SLC38A5	0.974261437	0.000985185
AC024028.1	SLC39A10	0.92881062	0.0074215
RP11-498J9.2	SLC39A10	0.935077337	0.006185605
RP11-34P13.14	SLC39A10	0.984219453	0.000371574
RP11-93O14.2	SLC39A10	0.948649976	0.003887537
RP11-78A19.3	SLC39A10	0.94207971	0.004934986
Z69720.3	SLC39A10	0.939888336	0.005311514
RP11-498J9.2	SLC39A11	0.9422622	0.004904241
RP11-34P13.14	SLC39A11	0.966063407	0.001707996
RP11-93O14.2	SLC39A11	0.954375807	0.003074866
RP11-78A19.3	SLC39A11	0.931667581	0.006844446
Z69720.3	SLC39A11	0.971635503	0.001195407
CTA-315H11.2	SLC39A13	-0.959219345	0.002460682
LL21NC02-21A1.1	TSPAN32	0.829559595	0.041099256
RP11-126K1.8	SLC39A13	0.94718131	0.004111044
RP3-438O4.4	SLC39A13	0.960430204	0.002317675
AC011558.5	TSPAN32	0.815763762	0.047787723
RP3-337H4.8	MXD3	0.854709296	0.030130584
NUP50-AS1	SLC39A13	0.961965852	0.002142385
CTC-1337H24.3	MXD3	0.859306202	0.028299618
CCDC144NL-AS1	PDCD10	-0.825880995	0.042836722
CTA-315H11.2	PDCD10	-0.8986827	0.014877772
PSMD5-AS1	SLC39A13	0.993416394	6.49E-05
TOPORS-AS1	SLC39A13	0.959241034	0.002458084
AC087294.2	SLC39A13	0.980235621	0.000582086
AP001062.8	SLC39A13	0.967819861	0.00153668
RP11-455F5.3	SLC39A13	0.984484878	0.000359211
RP11-326C3.2	SLC39A13	0.996649188	1.68E-05
AP006621.8	SLC39A13	0.994908896	3.88E-05
JHDM1D-AS1	SLC39A13	0.982677342	0.000447513

RP11-20I23.6	SLC39A13	0.991867972	9.89E-05
RP11-160E2.19	SLC39A13	0.986190768	0.000284726
AC005786.7	SLC39A13	0.979967023	0.00059796
AC005944.2	SLC39A13	0.978281816	0.000702397
CTB-191K22.5	SLC39A13	0.95517306	0.002969143
RP11-160E2.19	PDCD10	0.870796571	0.023961859
RP11-20I23.8	SLC39A13	0.985859801	0.000298504
CDC37L1-AS1	SLC39A13	0.96570495	0.001744058
RP5-1142A6.10	SLC39A13	0.990891072	0.000124081
RMRP	PDCD10	0.866610224	0.025502557
RP11-556I13.1	SLC39A13	0.982618821	0.000450533
CTD-2541M15.3	SLC39A8	0.965177994	0.001797746
LL21NC02-21A1.1	PDCD10	0.843854993	0.034668389
AC011558.5	SLC39A8	-0.919595731	0.009437369
RP3-337H4.8	SLC43A1	0.980124536	0.000588625
CCDC144NL-AS1	HBM	-0.853565979	0.030594397
CTA-315H11.2	SLC43A3	0.96137869	0.002208605
RP3-438O4.4	SLC43A3	-0.948467476	0.003914977
NUP50-AS1	SLC43A3	-0.920914006	0.009134566
PSMD5-AS1	SLC43A3	-0.959910901	0.002378489
TOPORS-AS1	SLC43A3	-0.950561869	0.003605777
AC087294.2	SLC43A3	-0.960214351	0.002342859
AP001062.8	SLC43A3	-0.93402229	0.006385985
RP11-455F5.3	SLC43A3	-0.963951421	0.001925828
RP11-326C3.2	SLC43A3	-0.989064547	0.000178722
AP006621.8	SLC43A3	-0.967901852	0.001528901
JHDM1D-AS1	SLC43A3	-0.97019267	0.001319474
RP11-20I23.6	SLC43A3	-0.977428773	0.000758441
RP11-160E2.19	SLC43A3	-0.981876959	0.000489691
AC005786.7	SLC43A3	-0.960039192	0.002363393
AC005944.2	SLC43A3	-0.926412754	0.007923384
RP11-20I23.8	SLC43A3	-0.97115105	0.001236388
CDC37L1-AS1	SLC43A3	-0.957099576	0.002721192
RP5-1142A6.10	SLC43A3	-0.974811814	0.000943677
RP11-556I13.1	SLC43A3	-0.970348487	0.001305783
RP11-118G23.2	SLC44A1	0.950466306	0.003619613
LL21NC02-21A1.1	HBM	0.863144039	0.026812706
AC024028.1	SLC45A3	0.954141186	0.003106325
RP11-498J9.2	SLC45A3	0.998440051	3.65E-06
RP11-473M20.11	PARP8	0.8649194	0.02613776
CTD-2139B15.2	PARP8	-0.822664955	0.044383186
RP11-160E2.19	PARP8	0.871087272	0.023856569
RP11-34P13.14	SLC45A3	0.984599504	0.000353937
CCDC144NL-AS1	WDR45	-0.830044135	0.040872907
CTA-315H11.2	WDR45	-0.911737094	0.011341712
RP11-93O14.2	SLC45A3	0.988589649	0.000194551
RP11-485G7.6	SLC45A3	0.964241367	0.001895158
RP11-78A19.3	SLC45A3	0.98630084	0.000280215
Z69720.3	SLC45A3	0.991503738	0.000107973
RP11-66D17.5	SLC4A1	0.97604862	0.000853633
RP11-126K1.8	SLC4A1	0.998890298	1.85E-06
RP3-438O4.4	SLC4A1	0.979749243	0.000610987
NUP50-AS1	SLC4A1	0.993124157	7.08E-05
PSMD5-AS1	SLC4A1	0.975121928	0.000920679
TOPORS-AS1	SLC4A1	0.954851767	0.00301153
AC087294.2	SLC4A1	0.98839741	0.000201149
AP001062.8	SLC4A1	0.996575657	1.76E-05
RP11-455F5.3	SLC4A1	0.988018674	0.000214468
RP11-160E2.19	WDR45	0.894873632	0.015996425
RP11-326C3.2	SLC4A1	0.956707245	0.002770823
AP006621.8	SLC4A1	0.971682336	0.001191481
JHDM1D-AS1	SLC4A1	0.982050692	0.000480375
RMRP	WDR45	0.819701708	0.04583069

RP11-20I23.6	SLC4A1	0.974038035	0.001002286
AC005786.7	SLC4A1	0.974909994	0.000936365
LL21NC02-21A1.1	WDR45	0.899277227	0.014706695
AC005944.2	SLC4A1	0.971572574	0.001200691
CTB-191K22.5	SLC4A1	0.993163835	6.99E-05
CTA-315H11.2	MYL4	-0.90268401	0.013744792
RP11-20I23.8	SLC4A1	0.982438658	0.000459893
CDC37L1-AS1	SLC4A1	0.976688339	0.000808816
RP5-1142A6.10	SLC4A1	0.959466641	0.002431133
RP11-556I13.1	SLC4A1	0.981851307	0.000491074
RP11-34P13.14	SLC4A7	0.935892247	0.006032971
AC024028.1	SLC6A13	0.962845736	0.002045014
RP11-498J9.2	SLC6A13	0.999885727	1.96E-08
RP11-34P13.14	SLC6A13	0.980230404	0.000582392
RP11-93O14.2	SLC6A13	0.985327621	0.000321339
RP11-485G7.6	SLC6A13	0.965525074	0.001762294
RP11-78A19.3	SLC6A13	0.985622659	0.000308576
Z69720.3	SLC6A13	0.986681556	0.00026489
AC024028.1	SLC6A6	0.979561219	0.000622347
RP11-160E2.19	MYL4	0.911397325	0.011427866
RP11-498J9.2	SLC6A6	0.940795008	0.005154083
RP11-34P13.14	SLC6A6	0.965044591	0.001811465
RP11-473M20.11	SLC6A6	0.955376721	0.002942428
Z69720.3	SLC6A6	0.942847993	0.004806189
LL21NC02-21A1.1	SLC6A9	0.939417861	0.005394119
LL21NC02-21A1.1	MYL4	0.89242938	0.016734784
RP11-498J9.2	SLC7A11	0.965744458	0.001740065
RP11-34P13.14	SLC7A11	0.934900138	0.006219042
CCDC144NL-AS1	TMEM63A	-0.909567224	0.011897347
RP11-93O14.2	SLC7A11	0.976359994	0.000831669
RP11-66D17.5	TMEM63A	0.851766644	0.031331117
RP11-126K1.8	TMEM63A	0.902155136	0.013892062
RP11-485G7.6	SLC7A11	0.986176156	0.000285327
RP11-78A19.3	SLC7A11	0.9808922	0.000544174
LA16c-359F1.1	SLC7A11	0.965833653	0.001731067
Z69720.3	SLC7A11	0.954679565	0.00303437
RP11-498J9.2	SLC7A5P2	0.928799345	0.007423823
RP11-34P13.14	SLC7A5P2	0.937877841	0.005668874
RP11-93O14.2	SLC7A5P2	0.949328567	0.003786339
RP11-485G7.6	SLC7A5P2	0.927064705	0.007785344
RP11-78A19.3	SLC7A5P2	0.937633514	0.005713078
RP11-680G24.6	SLC7A5P2	0.95242822	0.003340782
LA16c-359F1.1	SLC7A5P2	0.959189857	0.002464218
Z69720.3	SLC7A5P2	0.960833087	0.002271029
RP11-66D17.5	SLC7A8	0.950363799	0.003634483
RP11-126K1.8	SLC7A8	0.917791367	0.009859595
CTB-191K22.5	TMEM63A	0.905916482	0.012861163
RP3-438O4.4	SLC7A8	0.952042804	0.003394691
NUP50-AS1	SLC7A8	0.962863295	0.002043094
PSMD5-AS1	SLC7A8	0.941618639	0.005013082
TOPORS-AS1	SLC7A8	0.976094764	0.00085036
AC087294.2	SLC7A8	0.953853407	0.003145127
CCDC144NL-AS1	TNF	-0.882380773	0.019937835
CTA-315H11.2	TNF	-0.910469368	0.011664774
PSMD5-AS1	TNF	0.888538229	0.017943204
AC087294.2	TNF	0.823617148	0.04392265
RP11-455F5.3	TNF	0.839389413	0.036622105
RP11-326C3.2	TNF	0.909965765	0.011794329
AP006621.8	TNF	0.898011254	0.015072128
JHDM1D-AS1	TNF	0.836826682	0.03776601
RP11-20I23.6	TNF	0.863378917	0.026722942
AP001062.8	SLC7A8	0.951041854	0.003536676
AC005786.7	TNF	0.82538398	0.043074044

AC005944.2	TNF	0.844177801	0.034529112
RP11-20I23.8	TNF	0.843900421	0.034648772
RP5-1142A6.10	TNF	0.873302208	0.023061598
RP11-556I13.1	TNF	0.83678353	0.037785412
RP11-455F5.3	SLC7A8	0.94850285	0.003909651
CCDC144NL-AS1	GSPT1	-0.862673284	0.026993044
RP11-326C3.2	SLC7A8	0.941310607	0.005065591
AP006621.8	SLC7A8	0.935929888	0.006025966
JHDM1D-AS1	SLC7A8	0.948444494	0.003918439
RP11-20I23.6	SLC7A8	0.965725633	0.001741967
RP11-160E2.19	SLC7A8	0.921960117	0.008897695
AC005786.7	SLC7A8	0.980045132	0.000593322
AC005944.2	SLC7A8	0.964050366	0.001915334
CTB-191K22.5	SLC7A8	0.955329971	0.00294855
RP11-20I23.8	SLC7A8	0.951865436	0.003419642
CDC37L1-AS1	SLC7A8	0.950239346	0.003652577
RP5-1142A6.10	SLC7A8	0.980861764	0.000545903
RP11-556I13.1	SLC7A8	0.948449717	0.003917652
AC024028.1	SLC8A3	0.931817624	0.00681477
RP11-498J9.2	SLC8A3	0.980797122	0.000549585
RP11-34P13.14	SLC8A3	0.992047546	9.46E-05
RP11-93O14.2	SLC8A3	0.981541901	0.000507908
RP11-485G7.6	SLC8A3	0.929147772	0.007352217
RP11-78A19.3	SLC8A3	0.970049011	0.001332159
Z69720.3	SLC8A3	0.991972993	9.64E-05
AC024028.1	SLC9A1	0.985612126	0.000309027
LL21NC02-21A1.1	GSPT1	0.817840606	0.046750857
RP11-473M20.11	SLC9A1	0.988221288	0.00020729
AC024028.1	SLC9A7	0.93097202	0.006982839
RP11-498J9.2	SLC9A7	0.984023819	0.000380819
RP11-34P13.14	SLC9A7	0.987441984	0.000235565
RP11-93O14.2	SLC9A7	0.982502897	0.000456545
RP11-485G7.6	SLC9A7	0.939254563	0.005422937
RP11-78A19.3	SLC9A7	0.970710435	0.001274255
Z69720.3	SLC9A7	0.992991473	7.35E-05
CTD-2531D15.5	SLCO2B1	0.950478116	0.003617901
LA16c-359F1.1	SLC25A29	0.858350774	0.028675694
RP11-770G2.2	SLCO2B1	0.959340905	0.002446135
CCDC144NL-AS1	PHF21A	-0.88928778	0.017707283
CTD-2531D15.5	PHF21A	-0.877056041	0.021743663
CTA-315H11.2	PHF21A	-0.854603248	0.030173464
RP11-326C3.2	PHF21A	0.81963016	0.045865907
RP11-160E2.19	PHF21A	0.888645364	0.017909392
CCDC144NL-AS1	SLCO4A1	0.923575559	0.008537857
CCDC144NL-AS1	SEC62	-0.86725258	0.025263187
CTD-2531D15.5	SLCO4A1	0.940612968	0.005185506
RP4-784A16.3	SLFN13	0.943167501	0.004753117
RP11-77G23.2	SLFN13	0.953127063	0.003244117
AC024028.1	SLITRK6	0.964148409	0.001904964
RP11-498J9.2	SLITRK6	0.99999694	1.40E-11
RP11-34P13.14	SLITRK6	0.978592792	0.000682498
RP11-93O14.2	SLITRK6	0.983332185	0.000414409
RP11-485G7.6	SLITRK6	0.965558066	0.001758942
RP11-78A19.3	SLITRK6	0.983681513	0.000397267
Z69720.3	SLITRK6	0.986380029	0.000276992
RP11-34P13.14	SLMAP	0.92281011	0.008707459
RP11-680G24.6	SLMAP	0.961290944	0.002218586
RP11-34P13.14	SLX1A	0.919479393	0.009464322
RP11-93O14.2	SLX1A	0.951387523	0.00348732
RP11-78A19.3	SLX1A	0.95543096	0.002935333
RP11-680G24.6	SLX1A	0.970558586	0.001287435
LA16c-359F1.1	SLX1A	0.992777516	7.81E-05
RP4-784A16.3	SMAD5	0.918931917	0.00959166

RP11-485G7.6	SMAD6	0.96696191	0.001619242
RP4-784A16.3	SMARCAD1	0.951896503	0.003415265
LL21NC02-21A1.1	SEC62	0.817819925	0.04676113
RP11-77G23.2	SMARCAD1	0.962657947	0.002065608
LLNLR-284B4.1	SMC2	-0.954870095	0.003009104
CCDC144NL-AS1	PDLIM2	-0.896757307	0.015438346
CTD-2541M15.3	SMC2	0.941537296	0.005026922
RP3-438O4.4	PDLIM2	0.824688099	0.043407353
NUP50-AS1	PDLIM2	0.822897348	0.044270581
CTA-315H11.2	SMOX	-0.94305169	0.00477232
TOPORS-AS1	PDLIM2	0.842680431	0.035177384
AC087294.2	PDLIM2	0.866725468	0.025459533
AP001062.8	PDLIM2	0.836287913	0.038008594
RP11-455F5.3	PDLIM2	0.880453844	0.020582691
RP11-66D17.5	SMOX	0.957275047	0.002699137
RP11-126K1.8	SMOX	0.979744839	0.000611252
JHDM1D-AS1	PDLIM2	0.878131262	0.021372987
RP11-20I23.6	PDLIM2	0.90120246	0.014159252
RP3-438O4.4	SMOX	0.993452476	6.42E-05
AC005786.7	PDLIM2	0.867684421	0.025102867
AC005944.2	PDLIM2	0.88088064	0.020439015
RP11-20I23.8	PDLIM2	0.884377766	0.019279903
CDC37L1-AS1	PDLIM2	0.836394221	0.037960671
RP5-1142A6.10	PDLIM2	0.908800795	0.012096677
RP11-556I13.1	PDLIM2	0.878087541	0.021388001
NUP50-AS1	SMOX	0.987920297	0.000217997
PSMD5-AS1	SMOX	0.984712059	0.000348795
TOPORS-AS1	SMOX	0.97805731	0.00071694
AC087294.2	SMOX	0.999717505	1.20E-07
AP001062.8	SMOX	0.99490406	3.89E-05
RP11-485G7.6	MEG3	0.900826606	0.01426534
RP11-455F5.3	SMOX	0.999676956	1.57E-07
RP11-326C3.2	SMOX	0.986307288	0.000279952
LA16c-359F1.1	MEG3	0.885810843	0.01881428
Z69720.3	MEG3	0.889234241	0.017724084
CCDC144NL-AS1	GBP2	-0.899318938	0.014694729
CTD-2531D15.5	GBP2	-0.814758815	0.048293235
CTA-315H11.2	GBP2	-0.913386409	0.010927987
PSMD5-AS1	GBP2	0.896067973	0.01564147
AC087294.2	GBP2	0.829746831	0.041011721
RP11-455F5.3	GBP2	0.846216968	0.033655407
RP11-326C3.2	GBP2	0.913053777	0.011010827
AP006621.8	GBP2	0.905203475	0.013053633
JHDM1D-AS1	GBP2	0.841611115	0.035643804
RP11-20I23.6	GBP2	0.8664222	0.025572827
AP006621.8	SMOX	0.985664123	0.000306803
AC005786.7	GBP2	0.828121864	0.041774321
AC005944.2	GBP2	0.850395811	0.031897944
RP11-20I23.8	GBP2	0.848689932	0.032610003
RP5-1142A6.10	GBP2	0.874531181	0.022626045
RP11-556I13.1	GBP2	0.841511037	0.035687605
JHDM1D-AS1	SMOX	0.999502416	3.71E-07
RP11-20I23.6	SMOX	0.995903562	2.51E-05
RP11-160E2.19	SMOX	0.939875492	0.005313761
RP11-34P13.14	PLEKHO2	0.910242817	0.01172297
RP11-93O14.2	PLEKHO2	0.904467083	0.013253865
RP11-485G7.6	PLEKHO2	0.889697001	0.017579113
AC005786.7	SMOX	0.991826845	9.99E-05
RP11-78A19.3	PLEKHO2	0.901493501	0.014077365
AC005944.2	SMOX	0.970503268	0.001292254
CCDC144NL-AS1	ETS1	-0.900950093	0.014230443
CTB-191K22.5	SMOX	0.982536367	0.000454805
RP11-66D17.5	ETS1	0.90580203	0.012891965

RP11-20I23.8	SMOX	0.999527393	3.35E-07
CDC37L1-AS1	SMOX	0.994439251	4.63E-05
RP5-1142A6.10	SMOX	0.985173192	0.000328122
RP11-556I13.1	SMOX	0.999466145	4.27E-07
RP11-66D17.5	SMPD1	0.949574993	0.003749915
RP11-126K1.8	SMPD1	0.967711565	0.001546983
RP3-438O4.4	SMPD1	0.95504517	0.00298598
NUP50-AS1	SMPD1	0.97987045	0.00060372
PSMD5-AS1	SMPD1	0.991294966	0.000113337
TOPORS-AS1	SMPD1	0.958182146	0.002586535
AC087294.2	SMPD1	0.976330509	0.000833737
AP001062.8	SMPD1	0.976991334	0.000788008
RP11-455F5.3	SMPD1	0.978808708	0.000668848
RP11-326C3.2	SMPD1	0.975520301	0.000891549
AP006621.8	SMPD1	0.986933381	0.000254989
JHDM1D-AS1	SMPD1	0.971241598	0.001228676
RP11-20I23.6	SMPD1	0.982444739	0.000459576
RP11-160E2.19	SMPD1	0.957053023	0.002727058
AC005786.7	SMPD1	0.98071306	0.000554392
AC005944.2	SMPD1	0.995701427	2.77E-05
AC011558.5	ETS1	0.882756138	0.01981336
CCDC144NL-AS1	TMEM111	-0.862029455	0.027240612
CTB-191K22.5	SMPD1	0.976406368	0.000828422
RP11-20I23.8	SMPD1	0.975735148	0.000876031
CDC37L1-AS1	SMPD1	0.954755502	0.003024288
RP5-1142A6.10	SMPD1	0.985624492	0.000308497
RP11-556I13.1	SMPD1	0.971033122	0.001246467
AC024028.1	SMYD3	0.97664161	0.000812049
RP11-498J9.2	SMYD3	0.998179642	4.97E-06
RP11-34P13.14	SMYD3	0.973638713	0.001033217
RP11-93O14.2	SMYD3	0.972577599	0.001117671
RP11-485G7.6	SMYD3	0.955611784	0.002911741
RP11-473M20.11	SMYD3	0.935436756	0.006118056
RP11-78A19.3	SMYD3	0.974625772	0.000957609
Z69720.3	SMYD3	0.980178648	0.000585435
CTA-315H11.2	SNCA	-0.945461581	0.004380548
RP11-66D17.5	SNCA	0.950917224	0.003554555
RP11-126K1.8	SNCA	0.973446587	0.001048264
RP3-438O4.4	SNCA	0.993735508	5.87E-05
NUP50-AS1	SNCA	0.983962803	0.000383725
PSMD5-AS1	SNCA	0.982482073	0.000457629
TOPORS-AS1	SNCA	0.979998501	0.000596089
LL21NC02-21A1.1	TMEM111	0.836332636	0.03798843
AC087294.2	SNCA	0.999025738	1.42E-06
AP001062.8	SNCA	0.991828644	9.99E-05
RP11-118G23.2	SLC38A5	-0.88008292	0.020707949
RP11-455F5.3	SNCA	0.9989374	1.69E-06
RP11-326C3.2	SNCA	0.988352012	0.000202723
AP006621.8	SNCA	0.98442738	0.000361871
JHDM1D-AS1	SNCA	0.999998528	3.25E-12
PSMD5-AS1	SLC38A5	0.88337177	0.019610019
RP11-20I23.6	SNCA	0.996726894	1.61E-05
RP11-160E2.19	SNCA	0.943512087	0.004696203
AC005786.7	SNCA	0.991852475	9.93E-05
RP11-455F5.3	SLC38A5	0.908960856	0.012054917
RP11-326C3.2	SLC38A5	0.849280911	0.03236248
AP006621.8	SLC38A5	0.869278907	0.024515125
JHDM1D-AS1	SLC38A5	0.902910457	0.013681968
RP11-20I23.6	SLC38A5	0.901100565	0.014187975
AC005944.2	SNCA	0.965679392	0.001746643
CTB-191K22.5	SNCA	0.977312589	0.000766239
RP11-20I23.8	SNCA	0.999790921	6.56E-08
RP11-20I23.8	SLC38A5	0.903925871	0.013401964

CDC37L1-AS1	SNCA	0.995237334	3.40E-05
RP5-1142A6.10	SNCA	0.986379465	0.000277015
RP5-1142A6.10	SLC38A5	0.900597195	0.014330281
RP11-556I13.1	SLC38A5	0.902719855	0.013734838
CCDC144NL-AS1	HDAC10	-0.886994206	0.018433905
RP11-556I13.1	SNCA	0.999996292	2.06E-11
RP11-66D17.5	HDAC10	0.845533665	0.033947001
RP11-126K1.8	HDAC10	0.889058312	0.017779349
RP11-118G23.2	SNF8	-0.958919228	0.00249678
NUP50-AS1	HDAC10	0.909544676	0.011903188
LL21NC02-21A1.1	SNF8	0.956902956	0.00274601
AC024028.1	SNHG12	0.979023205	0.000655424
RP11-498J9.2	SNHG12	0.993778388	5.79E-05
RP11-34P13.14	SNHG12	0.982520789	0.000455614
RP11-93O14.2	SNHG12	0.965925925	0.001721783
RP11-485G7.6	SNHG12	0.933496484	0.006487013
RP11-473M20.11	SNHG12	0.935492279	0.006107653
RP11-78A19.3	SNHG12	0.962876498	0.002041651
Z69720.3	SNHG12	0.986355643	0.000277983
LL21NC02-21A1.1	SNHG9	0.96858971	0.001464415
RP5-1033H22.2	SNORD22	0.958049182	0.002602893
RP11-21J18.1	SNORD22	0.937362709	0.005762269
CTB-191K22.5	HDAC10	0.899338342	0.014689163
RP11-298J23.8	SNORD22	0.933983982	0.006393319
RP11-165D6.1	SNORD22	0.968874667	0.001438103
AC024028.1	SNORD3C	0.92078414	0.009164183
RP11-498J9.2	SNORD3C	0.96576959	0.001737527
RP11-34P13.14	SNORD3C	0.98661078	0.000267707
CCDC144NL-AS1	PPP1R9B	-0.884998738	0.019077473
RP11-93O14.2	SNORD3C	0.957603134	0.002658137
RP11-78A19.3	SNORD3C	0.943281436	0.004734262
Z69720.3	SNORD3C	0.992339494	8.78E-05
CTD-2531D15.5	SNRPEL1	0.967410351	0.001575821
RP3-339A18.6	SNRPFP1	0.973148321	0.001071839
CTD-2139B15.2	SNRPG	0.925390865	0.008142128
RMRP	SNX12	-0.931383583	0.006900789
RP11-160E2.19	SNX24	-0.927758603	0.007639722
AC011558.5	SNX24	-0.974298879	0.000982333
RP11-498J9.2	SOCS1	0.984497899	0.00035861
RP11-34P13.14	SOCS1	0.940308663	0.005238242
RP11-93O14.2	SOCS1	0.980381341	0.000573562
RP11-485G7.6	SOCS1	0.995158574	3.51E-05
RP11-78A19.3	SOCS1	0.984594264	0.000354177
LA16c-359F1.1	SOCS1	0.926880976	0.007824126
Z69720.3	SOCS1	0.961472136	0.002197999
AC024028.1	SOCS3	0.97949945	0.000626101
RP11-498J9.2	SOCS3	0.991055743	0.000119642
RP11-34P13.14	SOCS3	0.955199811	0.002965627
RP11-93O14.2	SOCS3	0.957171342	0.002712161
RP11-485G7.6	SOCS3	0.949086301	0.003822318
RP11-473M20.11	SOCS3	0.946794785	0.004170886
AC011558.5	PPP1R9B	0.865830542	0.025794543
CCDC144NL-AS1	MICAL2	-0.88096551	0.020410502
RP11-78A19.3	SOCS3	0.961034163	0.002247923
Z69720.3	SOCS3	0.963781546	0.001943909
AC024028.1	SOD2	0.993306786	6.70E-05
RP11-498J9.2	SOD2	0.952106688	0.003385726
RP11-34P13.14	SOD2	0.925159825	0.008191986
RP11-473M20.11	SOD2	0.990737906	0.000128282
Z69720.3	SOD2	0.920000392	0.00934391
RP11-66D17.5	SORBS3	0.939172774	0.005437398
RP11-126K1.8	SORBS3	0.942608359	0.004846182
RP3-438O4.4	SORBS3	0.97497721	0.000931376

NUP50-AS1	SORBS3	0.97329151	0.001060489
PSMD5-AS1	SORBS3	0.974638068	0.000956685
TOPORS-AS1	SORBS3	0.989372782	0.000168807
AC087294.2	SORBS3	0.982796761	0.000441382
AP001062.8	SORBS3	0.972814553	0.001098527
RP11-455F5.3	SORBS3	0.98183781	0.000491802
RP11-326C3.2	SORBS3	0.984307308	0.000367459
AP006621.8	SORBS3	0.974919874	0.000935631
JHDM1D-AS1	SORBS3	0.982708526	0.000445908
RP11-20I23.6	SORBS3	0.993726861	5.89E-05
RP11-160E2.19	SORBS3	0.962678162	0.002063386
AC005786.7	SORBS3	0.994511343	4.51E-05
CCDC144NL-AS1	TRIP12	-0.900147847	0.014457893
AC005944.2	SORBS3	0.970278836	0.001311894
RP11-66D17.5	TRIP12	0.909351576	0.01195327
CTB-191K22.5	SORBS3	0.961991827	0.002139478
RP11-20I23.8	SORBS3	0.984863816	0.000341922
CDC37L1-AS1	SORBS3	0.975058102	0.000925389
RP5-1142A6.10	SORBS3	0.999525092	3.38E-07
RP11-556I13.1	SORBS3	0.982728721	0.00044487
CTA-315H11.2	SORL1	-0.967946916	0.001524635
RP3-438O4.4	SORL1	0.923318706	0.008594587
PSMD5-AS1	SORL1	0.975739266	0.000875735
TOPORS-AS1	SORL1	0.928056852	0.007577543
AC087294.2	SORL1	0.950528219	0.003610646
AP001062.8	SORL1	0.928780125	0.007427783
RP11-455F5.3	SORL1	0.958691294	0.002524369
RP11-326C3.2	SORL1	0.99034	0.000139523
AP006621.8	SORL1	0.981746666	0.000496735
JHDM1D-AS1	SORL1	0.958007472	0.002608034
RP11-20I23.6	SORL1	0.97033635	0.001306847
RMRP	TRIP12	0.822567846	0.044430279
RP11-160E2.19	SORL1	0.997054907	1.30E-05
AC005786.7	SORL1	0.94798005	0.003988728
AC005944.2	SORL1	0.943804581	0.004648157
RP11-20I23.8	SORL1	0.961598348	0.002183715
CCDC144NL-AS1	ABTB1	-0.869701422	0.024360493
CDC37L1-AS1	SORL1	0.931151536	0.006946992
RP5-1142A6.10	SORL1	0.97032157	0.001308143
RP11-556I13.1	SORL1	0.957986822	0.002610582
AC011558.5	SORL1	0.933286341	0.006527607
RP3-339A18.6	SORT1	0.948970812	0.003839528
AC024028.1	SOS1	0.990874607	0.000124529
RP11-498J9.2	SOS1	0.989305289	0.000170954
RP11-34P13.14	SOS1	0.979331784	0.000636348
RP11-93O14.2	SOS1	0.96323126	0.002003056
RP11-485G7.6	SOS1	0.924310885	0.008376458
RP11-473M20.11	SOS1	0.959967543	0.002371818
RP11-78A19.3	SOS1	0.968143268	0.001506112
Z69720.3	SOS1	0.968931294	0.001432902
AC024028.1	SOX13	0.932616924	0.006657743
RP11-498J9.2	SOX13	0.987487415	0.000233868
RP11-34P13.14	SOX13	0.990653892	0.000130616
RP11-93O14.2	SOX13	0.988256228	0.000206064
RP11-485G7.6	SOX13	0.948948254	0.003842894
RP11-78A19.3	SOX13	0.981587491	0.00050541
LA16c-359F1.1	SOX13	0.933630314	0.006461226
LL21NC02-21A1.1	ABTB1	0.818680304	0.046334639
Z69720.3	SOX13	0.994246324	4.96E-05
RP11-473M20.11	SOX4	0.932862785	0.006609801
AC011558.5	ABTB1	0.813185583	0.049089563
CCDC144NL-AS1	TRAF3IP3	-0.890869686	0.017214298
RP11-66D17.5	SOX6	0.941020219	0.005115338

RP11-66D17.5	TRAF3IP3	0.916284472	0.010219083
RP11-126K1.8	SOX6	0.985177371	0.000327937
RP3-438O4.4	SOX6	0.957003165	0.002733347
NUP50-AS1	SOX6	0.96355522	0.00196813
PSMD5-AS1	SOX6	0.943257911	0.004738152
TOPORS-AS1	SOX6	0.921692028	0.00895811
AC087294.2	SOX6	0.964818315	0.001834853
AP001062.8	SOX6	0.974166804	0.000992411
RP11-455F5.3	SOX6	0.965739966	0.001740519
RP11-326C3.2	SOX6	0.927995151	0.007590386
AP006621.8	SOX6	0.943144864	0.004756868
JHDM1D-AS1	SOX6	0.959648305	0.002409537
RP11-20I23.6	SOX6	0.941744739	0.004991663
AC005786.7	SOX6	0.937973341	0.005651642
AC005944.2	SOX6	0.923122626	0.008638018
CTB-191K22.5	SOX6	0.961360492	0.002210673
RP11-20I23.8	SOX6	0.957904329	0.002620771
CDC37L1-AS1	SOX6	0.95140965	0.003484172
RP5-1142A6.10	SOX6	0.917292606	0.009977889
RP11-556I13.1	SOX6	0.959431918	0.002435271
CCDC144NL-AS1	SP100	-0.919104105	0.009551521
AC011558.5	TRAF3IP3	0.862052224	0.027231838
CTA-315H11.2	SP100	-0.961392467	0.002207039
RP11-126K1.8	SP100	0.943780813	0.004652052
RP3-438O4.4	SP100	0.970824737	0.001264377
NUP50-AS1	SP100	0.942047335	0.00494045
PSMD5-AS1	SP100	0.955721396	0.002897486
TOPORS-AS1	SP100	0.946334845	0.004242647
AC087294.2	SP100	0.976504713	0.000821558
RP11-680G24.6	NLRP3	0.840225639	0.036252422
LA16c-359F1.1	NLRP3	0.890681286	0.017272661
AP001062.8	SP100	0.961545033	0.002189743
CCDC144NL-AS1	CD3E	-0.888566986	0.017934126
RP11-455F5.3	SP100	0.979315911	0.000637323
RP11-326C3.2	SP100	0.975657541	0.000881621
AP006621.8	SP100	0.964198452	0.001899682
JHDM1D-AS1	SP100	0.983428646	0.000409639
RP11-20I23.6	SP100	0.97165257	0.001193975
RP11-160E2.19	SP100	0.924669429	0.008298303
AC005786.7	SP100	0.955212547	0.002963954
CTB-191K22.5	SP100	0.93149041	0.006879569
RP11-20I23.8	SP100	0.980965097	0.000540043
CDC37L1-AS1	SP100	0.974145916	0.00099401
RP5-1142A6.10	SP100	0.95098869	0.003544297
RP11-556I13.1	SP100	0.983495744	0.000406338
CTA-315H11.2	SP140	-0.96110153	0.002240208
RP11-66D17.5	SP140	0.917228905	0.009993047
RP11-126K1.8	SP140	0.950935524	0.003551927
RP3-438O4.4	SP140	0.973808743	0.00101999
NUP50-AS1	SP140	0.965139058	0.001801745
PSMD5-AS1	SP140	0.988463053	0.000198884
TOPORS-AS1	SP140	0.970826745	0.001264204
AC087294.2	SP140	0.988029613	0.000214078
AP001062.8	SP140	0.97404299	0.001001905
RP11-455F5.3	SP140	0.99118657	0.000116173
AC011558.5	CD3E	0.854531168	0.030202625
AC024028.1	HIST2H2BE	0.858593683	0.028579857
RP11-326C3.2	SP140	0.999488357	3.93E-07
CTD-2139B15.2	HIST2H2BE	-0.834238434	0.038938038
AC011558.5	HIST2H2BE	0.898498724	0.014930904
CTA-315H11.2	PQLC1	-0.856753346	0.029309724
AP006621.8	SP140	0.992209944	9.08E-05
JHDM1D-AS1	SP140	0.991817364	0.000100159

RP11-20I23.6	SP140	0.996264439	2.09E-05
RP11-160E2.19	SP140	0.977456015	0.000756618
AC005786.7	SP140	0.984650085	0.000351621
AC005944.2	SP140	0.965715859	0.001742955
CTB-191K22.5	SP140	0.955491236	0.002927459
RP11-20I23.8	SP140	0.993295419	6.73E-05
CDC37L1-AS1	SP140	0.977725769	0.000738686
RP5-1142A6.10	SP140	0.991678563	0.000103581
RP11-556I13.1	SP140	0.991817761	0.00010015
RP11-91K8.5	SPAG4	0.96114933	0.002234742
RP11-118G23.2	SPAG9	0.98834956	0.000202808
RP11-160E2.19	PQLC1	0.864870073	0.026156403
RP11-680G24.6	SPAG9	0.956465883	0.002801576
CTA-315H11.2	SPATA13	-0.952204981	0.003371955
RP11-160E2.19	SPATA13	0.932700647	0.006641398
AC024028.1	SPATA20	0.946924359	0.004150778
RP11-473M20.11	SPATA20	0.97009738	0.001327881
LL21NC02-21A1.1	PQLC1	0.915959821	0.01029735
AC024028.1	SPATS2L	0.981710362	0.000498707
RP11-498J9.2	SPATS2L	0.941440641	0.005043392
CCDC144NL-AS1	VTI1B	-0.847637709	0.033052912
RP11-34P13.14	SPATS2L	0.954966872	0.002996311
RP11-473M20.11	SPATS2L	0.962168771	0.002119731
Z69720.3	SPATS2L	0.924040799	0.008435566
RP3-337H4.8	SPC24	0.921273038	0.00905293
CTD-2139B15.2	SPC24	0.966530721	0.001661543
AC011558.5	SPC25	-0.966305559	0.001683846
CTA-315H11.2	SPEG	-0.94850603	0.003909172
RP11-66D17.5	SPEG	0.947536847	0.004056374
RP11-126K1.8	SPEG	0.975931018	0.000862002
RP3-438O4.4	SPEG	0.986825339	0.000259214
NUP50-AS1	SPEG	0.984361069	0.000364952
PSMD5-AS1	SPEG	0.990420031	0.000137224
TOPORS-AS1	SPEG	0.977122698	0.00077907
AC087294.2	SPEG	0.997742022	7.64E-06
AP001062.8	SPEG	0.991345716	0.000112021
RP11-455F5.3	SPEG	0.999201974	9.55E-07
RP11-326C3.2	SPEG	0.99265534	8.07E-05
AP006621.8	SPEG	0.991875397	9.87E-05
RMRP	VTI1B	0.816556532	0.047390684
JHDM1D-AS1	SPEG	0.998007458	5.95E-06
RP11-20I23.6	SPEG	0.997742002	7.64E-06
LL21NC02-21A1.1	VTI1B	0.836085583	0.038099883
RP11-160E2.19	SPEG	0.954576289	0.003048109
AC005786.7	SPEG	0.991309295	0.000112964
CCDC144NL-AS1	RNF11	-0.873281034	0.023069137
AC005944.2	SPEG	0.974030438	0.00100287
CTB-191K22.5	SPEG	0.977336171	0.000764653
RP11-20I23.8	SPEG	0.998849221	1.99E-06
CDC37L1-AS1	SPEG	0.987807586	0.000222076
RP5-1142A6.10	SPEG	0.989713228	0.000158182
RP11-556I13.1	SPEG	0.997950584	6.30E-06
RP11-160E2.19	SPI1	0.959853882	0.002385214
AC011558.5	SPI1	0.996212105	2.15E-05
AC024028.1	SPIB	0.954862939	0.003010051
RP11-498J9.2	SPIB	0.999260923	8.19E-07
RP11-34P13.14	SPIB	0.973580034	0.001037801
RP11-93O14.2	SPIB	0.986308932	0.000279885
RP11-485G7.6	SPIB	0.974136423	0.000994737
RP11-78A19.3	SPIB	0.986535111	0.000270734
Z69720.3	SPIB	0.984148741	0.000374902
RP11-498J9.2	SPIN1	0.932315823	0.006716686
RP11-34P13.14	SPIN1	0.974368998	0.000977003

RP11-93O14.2	SPIN1	0.968342548	0.001487428
RP11-78A19.3	SPIN1	0.955397557	0.002939701
RP11-680G24.6	SPIN1	0.963197541	0.002006708
LA16c-359F1.1	SPIN1	0.939593581	0.005363194
Z69720.3	SPIN1	0.946451395	0.004224406
AC011558.5	RNF11	0.815882809	0.047728003
CCDC144NL-AS1	WDR26	-0.899416589	0.014666731
RP4-784A16.3	SPIN4	0.980323338	0.000576947
RP11-77G23.2	SPIN4	0.936733044	0.005877442
AC024028.1	SPINK2	0.997383082	1.03E-05
RP11-498J9.2	SPINK2	0.952242683	0.00336668
RP11-34P13.14	SPINK2	0.934340721	0.006325178
RP11-473M20.11	SPINK2	0.994198102	5.04E-05
Z69720.3	SPINK2	0.917750178	0.009869338
AC024028.1	SPINK4	0.920997617	0.009115523
RP11-498J9.2	SPINK4	0.98181972	0.000492779
RP11-34P13.14	SPINK4	0.974435561	0.000971957
RP11-93O14.2	SPINK4	0.985024632	0.000334713
RP11-485G7.6	SPINK4	0.949092176	0.003821443
RP11-78A19.3	SPINK4	0.972018643	0.00116348
Z69720.3	SPINK4	0.982163099	0.000474395
RP11-498J9.2	SPIRE1	0.971803721	0.001181337
RP11-34P13.14	SPIRE1	0.984657867	0.000351266
RP11-93O14.2	SPIRE1	0.99174002	0.000102059
RP11-485G7.6	SPIRE1	0.935681487	0.006072268
RP11-78A19.3	SPIRE1	0.981609271	0.000504218
RP11-680G24.6	SPIRE1	0.939362605	0.005403862
LA16c-359F1.1	SPIRE1	0.946204435	0.004263103
Z69720.3	SPIRE1	0.977302136	0.000766943
AC011558.5	WDR26	0.835565861	0.038334846
CCDC144NL-AS1	PCGF5	-0.866109505	0.025689892
AC011558.5	SPNS3	0.980803797	0.000549204
CCDC144NL-AS1	SPOCK2	-0.93169156	0.006839699
CTA-315H11.2	SPOCK2	-0.965862256	0.001728187
PSMD5-AS1	SPOCK2	0.96691597	0.001623723
AC087294.2	SPOCK2	0.937714319	0.00569844
RP11-455F5.3	SPOCK2	0.947727581	0.004027194
RP11-326C3.2	SPOCK2	0.983169346	0.000422523
AP006621.8	SPOCK2	0.9745963	0.000959825
JHDM1D-AS1	SPOCK2	0.946102284	0.00427916
RP11-20I23.6	SPOCK2	0.957697305	0.002646426
RP11-160E2.19	SPOCK2	0.990987731	0.000121465
AC005786.7	SPOCK2	0.931405458	0.006896441
AC005944.2	SPOCK2	0.926907468	0.007818528
RP11-20I23.8	SPOCK2	0.949637074	0.003740766
RP5-1142A6.10	SPOCK2	0.956338952	0.002817815
RP11-556I13.1	SPOCK2	0.946057197	0.004286257
AC011558.5	SPOCK2	0.931550475	0.006867652
RP11-34P13.14	SPOPL	0.958798765	0.002511342
RP11-93O14.2	SPOPL	0.957893354	0.002622128
RP11-78A19.3	SPOPL	0.943392536	0.004715911
LL21NC02-21A1.1	PCGF5	0.818547473	0.046400365
RP11-680G24.6	SPOPL	0.982143241	0.000475449
LA16c-359F1.1	SPOPL	0.95396934	0.003129467
Z69720.3	SPOPL	0.936739781	0.005876204
RP11-485G7.6	SPP1	0.944301517	0.004567084
CTD-2531D15.5	SPR	0.960234913	0.002340454
RP3-339A18.6	SPRED1	0.97167803	0.001191842
AC024028.1	SPRY4	0.918034804	0.009802107
RP11-498J9.2	SPRY4	0.965644003	0.001750226
RP11-34P13.14	SPRY4	0.988613652	0.000193735
LA16c-359F1.1	DPPA4	0.832687165	0.039648534
RP11-93O14.2	SPRY4	0.968427964	0.001479455

CCDC144NL-AS1	SNCA	-0.86506255	0.026083695
RP11-78A19.3	SPRY4	0.952749429	0.003296178
Z69720.3	SPRY4	0.985823342	0.000300042
CCDC144NL-AS1	SPRYD4	0.929897451	0.007199296
CTD-2531D15.5	SPRYD4	0.938767669	0.005509305
RP11-66D17.5	SPSB3	0.984452075	0.000360728
RP11-126K1.8	SPSB3	0.995778478	2.67E-05
RP3-438O4.4	SPSB3	0.969484149	0.001382617
NUP50-AS1	SPSB3	0.994536437	4.47E-05
PSMD5-AS1	SPSB3	0.975934398	0.000861761
TOPORS-AS1	SPSB3	0.948702752	0.00387962
AC087294.2	SPSB3	0.980748599	0.000552357
AP001062.8	SPSB3	0.99234952	8.76E-05
RP11-455F5.3	SPSB3	0.979926925	0.000600348
RP11-326C3.2	SPSB3	0.948464351	0.003915447
AP006621.8	SPSB3	0.968999518	0.001426649
JHDM1D-AS1	SPSB3	0.971737057	0.001186903
RP11-20I23.6	SPSB3	0.969120951	0.001415552
AC005786.7	SPSB3	0.973761937	0.001023622
AC005944.2	SPSB3	0.985987901	0.000293133
CTB-191K22.5	SPSB3	0.997814434	7.16E-06
LL21NC02-21A1.1	SNCA	0.820127291	0.045621469
RP11-20I23.8	SPSB3	0.973801687	0.001020537
CDC37L1-AS1	SPSB3	0.96681506	0.001633588
RP5-1142A6.10	SPSB3	0.959950693	0.002373802
RP11-556I13.1	SPSB3	0.971485721	0.001208004
RP11-66D17.5	SP100	0.892002603	0.016865346
AC011558.5	SPTAN1	0.940562188	0.005194288
RP11-160E2.19	SPTBN1	0.918396851	0.00971691
AC011558.5	SPTBN1	0.978547807	0.000685359
RP11-767C1.1	SQRDL	0.966502016	0.001664378
AC024028.1	SRC	0.993688971	5.96E-05
RP11-498J9.2	SRC	0.97966379	0.000616137
RP11-34P13.14	SRC	0.953840701	0.003146846
RP11-93O14.2	SRC	0.942074553	0.004935856
RP11-473M20.11	SRC	0.973898921	0.001013009
RP11-78A19.3	SRC	0.949532835	0.003756134
Z69720.3	SRC	0.947246411	0.004101007
CTD-2139B15.2	SREBF1	0.973671262	0.001030678
RP11-680G24.6	SRGAP2P2	0.96927151	0.001401853
LA16c-359F1.1	SRGAP2P2	0.982749839	0.000443786
AC005944.2	SP100	0.912153721	0.0112365
CTD-2139B15.2	SRI	0.930154883	0.007147146
RMRP	SP100	0.853563787	0.03059529
RP11-160E2.19	SRP9	-0.941157977	0.005091709
AC011558.5	SRP9	-0.958450763	0.002553645
CTC-1337H24.3	SRPK2	-0.952422143	0.003341629
CTA-315H11.2	SRXN1	-0.94453776	0.004528787
RP11-66D17.5	SRXN1	0.959437678	0.002434584
RP11-126K1.8	SRXN1	0.983540236	0.000404156
RP3-438O4.4	SRXN1	0.990479796	0.00013552
NUP50-AS1	SRXN1	0.989622093	0.000160993
CCDC144NL-AS1	CASC3	-0.891292988	0.017083515
PSMD5-AS1	SRXN1	0.988842944	0.000186025
TOPORS-AS1	SRXN1	0.974154233	0.000993373
AC087294.2	SRXN1	0.999220118	9.12E-07
AP001062.8	SRXN1	0.995881551	2.54E-05
RP11-455F5.3	SRXN1	0.999762586	8.45E-08
RP11-326C3.2	SRXN1	0.986328134	0.000279102
AP006621.8	SRXN1	0.988932984	0.000183041
JHDM1D-AS1	SRXN1	0.998213204	4.79E-06
RP11-20I23.6	SRXN1	0.995368627	3.21E-05
RP11-160E2.19	SRXN1	0.941948568	0.004957137

AC005786.7	SRXN1	0.990936394	0.000122851
AC005944.2	SRXN1	0.976703046	0.0008078
CTB-191K22.5	SRXN1	0.985507806	0.000313514
RP11-20I23.8	SRXN1	0.998770633	2.27E-06
CDC37L1-AS1	SRXN1	0.991580935	0.000106023
RP5-1142A6.10	SRXN1	0.984893476	0.000340587
RP11-556I13.1	SRXN1	0.998140812	5.18E-06
RP11-485G7.6	SSBP2	0.946971553	0.004143466
LA16c-359F1.1	SSBP2	0.92897089	0.007388526
RP11-498J9.2	SSFA2	0.961658444	0.00217693
RP11-34P13.14	SSFA2	0.978768569	0.000671375
RP11-93O14.2	SSFA2	0.984416335	0.000362384
AC011558.5	CASC3	0.850520889	0.031846026
CCDC144NL-AS1	PSD4	-0.886652323	0.018543416
RP11-485G7.6	SSFA2	0.918796371	0.009623314
RP11-66D17.5	PSD4	0.885008025	0.019074453
RP11-78A19.3	SSFA2	0.969699062	0.00136331
RP11-680G24.6	SSFA2	0.929655149	0.00724855
LA16c-359F1.1	SSFA2	0.925789063	0.008056545
Z69720.3	SSFA2	0.968441932	0.001478153
AC024028.1	SSH1	0.92652124	0.007900332
RP11-498J9.2	SSH1	0.96912533	0.001415152
RP11-34P13.14	SSH1	0.992906414	7.53E-05
RP11-93O14.2	SSH1	0.971223897	0.001230182
RP11-78A19.3	SSH1	0.95768381	0.002648103
Z69720.3	SSH1	0.986762632	0.000261682
CTA-315H11.2	SSH2	-0.922504659	0.008775592
RP11-160E2.19	SSH2	0.956941434	0.002741144
AC011558.5	SSH2	0.969078548	0.001419422
CTA-315H11.2	SSTR3	-0.962900884	0.002038986
RP11-66D17.5	SSTR3	0.92406848	0.008429498
RP11-126K1.8	SSTR3	0.958186485	0.002586002
RP3-438O4.4	SSTR3	0.978665432	0.00067789
NUP50-AS1	SSTR3	0.969604859	0.001371756
PSMD5-AS1	SSTR3	0.989300175	0.000171117
TOPORS-AS1	SSTR3	0.971144567	0.001236941
AC011558.5	PSD4	0.90459265	0.013219618
CCDC144NL-AS1	ATHL1	-0.888590054	0.017926844
AC087294.2	SSTR3	0.991620396	0.000105032
AP001062.8	SSTR3	0.979090087	0.000651266
RP11-455F5.3	SSTR3	0.99445392	4.61E-05
RP11-326C3.2	SSTR3	0.998659725	2.69E-06
AP006621.8	SSTR3	0.992830833	7.69E-05
JHDM1D-AS1	SSTR3	0.995001094	3.74E-05
RP11-20I23.6	SSTR3	0.996986827	1.36E-05
RP11-160E2.19	SSTR3	0.971220951	0.001230433
AC005786.7	SSTR3	0.985761045	0.000302678
AC005944.2	SSTR3	0.966483894	0.001666169
CTB-191K22.5	SSTR3	0.961042157	0.002247007
RP11-20I23.8	SSTR3	0.996064468	2.32E-05
CDC37L1-AS1	SSTR3	0.982402218	0.000461798
RP5-1142A6.10	SSTR3	0.989973524	0.000150291
RP11-556I13.1	SSTR3	0.994994487	3.75E-05
CTA-315H11.2	ST3GAL1	-0.960377241	0.002323841
RP11-66D17.5	ST3GAL1	0.918754723	0.009633051
RP11-126K1.8	ST3GAL1	0.964150005	0.001904796
RP3-438O4.4	ST3GAL1	0.979762277	0.000610204
NUP50-AS1	ST3GAL1	0.964681112	0.001849107
PSMD5-AS1	ST3GAL1	0.976767452	0.000803357
TOPORS-AS1	ST3GAL1	0.962196439	0.002116651
AC011558.5	ATHL1	0.851613306	0.031394282
CCDC144NL-AS1	PPM1A	-0.868156844	0.024928037
AC087294.2	ST3GAL1	0.989561353	0.000162879

AP001062.8	ST3GAL1	0.978962568	0.000659205
RP11-455F5.3	ST3GAL1	0.992372813	8.70E-05
RP11-326C3.2	ST3GAL1	0.987754269	0.000224019
AP006621.8	ST3GAL1	0.982233282	0.00047068
JHDM1D-AS1	ST3GAL1	0.993290777	6.74E-05
RP11-20I23.6	ST3GAL1	0.986617577	0.000267436
RP11-160E2.19	ST3GAL1	0.9424107	0.004879293
AC005786.7	ST3GAL1	0.973807509	0.001020085
AC005944.2	ST3GAL1	0.943893899	0.004633534
CTB-191K22.5	ST3GAL1	0.955295249	0.002953101
RP11-20I23.8	ST3GAL1	0.992434991	8.56E-05
CDC37L1-AS1	ST3GAL1	0.9814864	0.000510957
RP5-1142A6.10	ST3GAL1	0.971345061	0.001219894
RP11-556I13.1	ST3GAL1	0.993280801	6.76E-05
AC024028.1	ST3GAL4	0.96986449	0.00134854
RP11-498J9.2	ST3GAL4	0.999435645	4.78E-07
RP11-34P13.14	ST3GAL4	0.975310278	0.000906848
RP11-93O14.2	ST3GAL4	0.978148629	0.000711007
RP11-485G7.6	ST3GAL4	0.963308194	0.001994734
LL21NC02-21A1.1	PPM1A	0.818390996	0.046477847
RP11-473M20.11	ST3GAL4	0.924834053	0.008262539
RP11-78A19.3	ST3GAL4	0.980543852	0.00056413
AC024028.1	TES	0.904549087	0.013231494
Z69720.3	ST3GAL4	0.98309889	0.000426057
LLNLR-284B4.1	TES	0.828865789	0.041424381
AC011558.5	TES	0.869491704	0.024437187
CCDC144NL-AS1	ACTN1	-0.839464231	0.036588957
CTA-315H11.2	ACTN1	-0.894351221	0.016152889
CTD-2541M15.3	ACTN1	-0.81850906	0.04641938
PSMD5-AS1	ACTN1	0.872062102	0.023505108
AC087294.2	ACTN1	0.814312452	0.048518558
RP11-455F5.3	ACTN1	0.827706112	0.041970488
RP11-326C3.2	ACTN1	0.902212687	0.013875999
AP006621.8	ACTN1	0.881757895	0.02014521
JHDM1D-AS1	ACTN1	0.829120457	0.041304902
RP11-20I23.6	ACTN1	0.859067757	0.028393255
AC024028.1	ST3GAL5	0.991729687	0.000102314
AC005786.7	ACTN1	0.824594787	0.043452138
AC005944.2	ACTN1	0.832596921	0.039690052
RP11-20I23.8	ACTN1	0.835972369	0.038151009
RP5-1142A6.10	ACTN1	0.873658386	0.02293496
RP11-556I13.1	ACTN1	0.829189212	0.041272673
RP11-498J9.2	ST3GAL5	0.926954737	0.007808545
CCDC144NL-AS1	FAM65B	-0.909906886	0.011809521
RP11-473M20.11	ST3GAL5	0.999493966	3.84E-07
RP11-66D17.5	FAM65B	0.821510661	0.04494447
RP11-126K1.8	FAM65B	0.879129072	0.021031723
RP3-438O4.4	FAM65B	0.904075551	0.013360926
NUP50-AS1	FAM65B	0.894056021	0.016241626
AC024028.1	ST3GAL6	0.945707408	0.00434151
TOPORS-AS1	FAM65B	0.910023088	0.011779547
RP11-473M20.11	ST3GAL6	0.984278075	0.000368825
AP001062.8	FAM65B	0.90727491	0.012498291
AC024028.1	ST6GAL1	0.939733288	0.005338668
RP11-473M20.11	ST6GAL1	0.977387472	0.000761208
RP11-66D17.5	ST6GALNAC4	0.985869742	0.000298086
RP11-126K1.8	ST6GALNAC4	0.997022374	1.33E-05
RP3-438O4.4	ST6GALNAC4	0.978751266	0.000672466
NUP50-AS1	ST6GALNAC4	0.997577499	8.80E-06
PSMD5-AS1	ST6GALNAC4	0.974691244	0.000952694
TOPORS-AS1	ST6GALNAC4	0.960055524	0.002361475
CTB-191K22.5	FAM65B	0.881909917	0.020094503
AC087294.2	ST6GALNAC4	0.986817774	0.000259511

CDC37L1-AS1	FAM65B	0.914083938	0.010755257
AP001062.8	ST6GALNAC4	0.996738191	1.59E-05
RP11-455F5.3	ST6GALNAC4	0.985297983	0.000322635
RP11-326C3.2	ST6GALNAC4	0.953271007	0.003224379
CTA-315H11.2	TSSC4	-0.818605652	0.046371572
AP006621.8	ST6GALNAC4	0.969247399	0.001404042
JHDM1D-AS1	ST6GALNAC4	0.978754707	0.000672249
RP11-20I23.6	ST6GALNAC4	0.974616971	0.00095827
AC005786.7	ST6GALNAC4	0.979717869	0.000612876
AC005944.2	ST6GALNAC4	0.980364241	0.000574559
CTB-191K22.5	ST6GALNAC4	0.99821996	4.75E-06
RP11-20I23.8	ST6GALNAC4	0.979946468	0.000599184
CDC37L1-AS1	ST6GALNAC4	0.975076591	0.000924024
RP5-1142A6.10	ST6GALNAC4	0.964801918	0.001836554
RP11-326C3.2	TSSC4	0.9092149	0.011988779
RP11-556I13.1	ST6GALNAC4	0.978546383	0.000685449
RP11-680G24.6	STAC	0.930218069	0.007134375
LA16c-359F1.1	STAC	0.960637474	0.002293618
RP11-160E2.19	TSSC4	0.874923924	0.022487691
RP11-498J9.2	STAC3	0.983530842	0.000404616
RP11-34P13.14	STAC3	0.968203966	0.001500409
RP11-93O14.2	STAC3	0.979271708	0.00064004
RP11-485G7.6	STAC3	0.958909044	0.00249801
RP11-78A19.3	STAC3	0.966690443	0.001645811
Z69720.3	STAC3	0.98756097	0.000231132
RP5-1033H22.2	STAG2	0.923927855	0.008460343
RP11-165D6.1	STAG2	0.920479568	0.009233825
CCDC144NL-AS1	GCA	-0.853421364	0.030653302
CTD-2531D15.5	GCA	-0.820042838	0.045662952
CTA-315H11.2	GCA	-0.860460976	0.027848217
CTD-2541M15.3	GCA	-0.82027316	0.045549861
PSMD5-AS1	GCA	0.826324393	0.042625517
RP11-326C3.2	GCA	0.84026422	0.036235408
AP006621.8	GCA	0.835599284	0.038319715
RP4-784A16.3	STAG3L3	0.959331238	0.00244729
RP11-118G23.2	STARD4	0.966345735	0.001679856
CCDC144NL-AS1	PLEC	-0.830611696	0.040608518
CTA-315H11.2	PLEC	-0.858537462	0.028602025
CTD-2139B15.2	PLEC	-0.839339889	0.036644054
RP11-326C3.2	PLEC	0.832404236	0.039778767
AP006621.8	PLEC	0.811410617	0.049995252
RP11-160E2.19	PLEC	0.914694759	0.010605094
RP11-680G24.6	STARD4	0.990144293	0.000145224
AC024028.1	SH3BP1	0.885263426	0.018991498
LA16c-359F1.1	STARD4	0.930855942	0.007006066
LLNLR-284B4.1	SH3BP1	0.830362768	0.040724378
AC011558.5	SH3BP1	0.907620994	0.012406645
AC024028.1	STAT4	0.92127544	0.009052384
RP11-498J9.2	MEI1	0.914791438	0.01058142
RP11-34P13.14	MEI1	0.891035504	0.01716301
RP11-93O14.2	MEI1	0.846580236	0.033500868
RP11-485G7.6	MEI1	0.815979718	0.047679414
RP11-473M20.11	STAT4	0.970455998	0.001296378
RP11-78A19.3	MEI1	0.861091455	0.027603215
Z69720.3	MEI1	0.875689603	0.022219123
CCDC144NL-AS1	FYB	-0.887307169	0.01833393
AC011558.5	STIL	-0.981966453	0.000484881
PSMD5-AS1	FYB	0.908405259	0.012200173
TOPORS-AS1	FYB	0.823862453	0.043804369
AC087294.2	FYB	0.848571319	0.03265979
AP001062.8	FYB	0.81670593	0.047316035
RP11-455F5.3	FYB	0.863096381	0.026830937
CTA-315H11.2	STK10	-0.954835312	0.003013709

AP006621.8	FYB	0.916882773	0.010075603
JHDM1D-AS1	FYB	0.86060894	0.027790626
RP11-20I23.6	FYB	0.885637253	0.018870391
PSMD5-AS1	STK10	0.958315049	0.002570236
AC005786.7	FYB	0.85046913	0.031867505
AC005944.2	FYB	0.867734533	0.025084295
RP11-20I23.8	FYB	0.867364145	0.025221722
CDC37L1-AS1	FYB	0.817123817	0.047107519
RP5-1142A6.10	FYB	0.894608138	0.01607585
RP11-556I13.1	FYB	0.860564137	0.027808059
RP11-455F5.3	STK10	0.920655	0.00919368
CCDC144NL-AS1	PPM1M	-0.82442513	0.04353362
CTA-315H11.2	PPM1M	-0.875552241	0.022267191
CTD-2541M15.3	PPM1M	-0.84617618	0.03367278
PSMD5-AS1	PPM1M	0.876795085	0.021834085
RP11-455F5.3	PPM1M	0.821824688	0.044791447
RP11-326C3.2	PPM1M	0.893792148	0.016321144
AP006621.8	PPM1M	0.882994766	0.019734423
JHDM1D-AS1	PPM1M	0.818353573	0.046496386
RP11-20I23.6	PPM1M	0.852661865	0.030963542
RP11-326C3.2	STK10	0.964879811	0.001828482
AC005786.7	PPM1M	0.821214694	0.045088915
AC005944.2	PPM1M	0.848030383	0.032887296
RP11-20I23.8	PPM1M	0.827026068	0.042292283
RP5-1142A6.10	PPM1M	0.871682995	0.023641494
RP11-556I13.1	PPM1M	0.818299342	0.046523258
AP006621.8	STK10	0.963428331	0.001981773
CCDC144NL-AS1	RGS14	-0.890346472	0.017376613
RP11-20I23.6	STK10	0.934416534	0.006310743
RP11-66D17.5	RGS14	0.900382434	0.014391204
RP11-160E2.19	STK10	0.992821529	7.71E-05
AC005944.2	STK10	0.926771151	0.007847353
RP11-20I23.8	STK10	0.921907642	0.008909505
RP5-1142A6.10	STK10	0.93783027	0.005677468
AC011558.5	STK10	0.951800881	0.003428746
CTC-1337H24.3	STK16	0.958270098	0.002575743
AC024028.1	STK17B	0.977147441	0.000777392
RP11-473M20.11	STK17B	0.996856096	1.48E-05
RP11-66D17.5	STK32B	-0.979480278	0.000627268
RP11-126K1.8	STK32B	-0.956594697	0.002785142
RP3-438O4.4	STK32B	-0.984070797	0.000378588
NUP50-AS1	STK32B	-0.979138833	0.000648243
PSMD5-AS1	STK32B	-0.93961099	0.005360134
TOPORS-AS1	STK32B	-0.964221254	0.001897277
AC087294.2	STK32B	-0.974374642	0.000976575
AP001062.8	STK32B	-0.976863049	0.000796785
RP11-455F5.3	STK32B	-0.967279157	0.001588464
RP11-326C3.2	STK32B	-0.933827486	0.006423324
AP006621.8	STK32B	-0.934770826	0.006243498
JHDM1D-AS1	STK32B	-0.969696658	0.001363525
AC011558.5	RGS14	0.894080228	0.01623434
RP11-20I23.6	STK32B	-0.964910345	0.001825323
AC005786.7	STK32B	-0.976624913	0.000813206
RP11-66D17.5	C11orf21	0.831939627	0.03999306
RP11-126K1.8	C11orf21	0.891843096	0.016914269
AC005944.2	STK32B	-0.952647369	0.003310319
NUP50-AS1	C11orf21	0.898856196	0.01482775
CTB-191K22.5	STK32B	-0.980819614	0.000548303
TOPORS-AS1	C11orf21	0.906296414	0.012759167
RP11-20I23.8	STK32B	-0.969036983	0.00142322
CDC37L1-AS1	STK32B	-0.98502853	0.000334539
RP5-1142A6.10	STK32B	-0.956657284	0.002777175
RP11-556I13.1	STK32B	-0.969724136	0.001361066

CTA-315H11.2	STK38	-0.973488806	0.001044949
RP11-126K1.8	STK38	0.939140681	0.005443078
RP3-438O4.4	STK38	0.964072914	0.001912947
NUP50-AS1	STK38	0.948803386	0.003864544
PSMD5-AS1	STK38	0.982364881	0.000463754
TOPORS-AS1	STK38	0.957166203	0.002712807
CTB-191K22.5	C11orf21	0.891246177	0.017097954
AC087294.2	STK38	0.980068698	0.000591926
AP001062.8	STK38	0.962275381	0.002107876
RP11-455F5.3	STK38	0.984893868	0.000340569
RP11-326C3.2	STK38	0.998497197	3.39E-06
AC011558.5	C11orf21	0.897549114	0.015206604
CCDC144NL-AS1	FLCN	-0.863096526	0.026830881
AP006621.8	STK38	0.988625918	0.000193319
JHDM1D-AS1	STK38	0.986497075	0.000272262
RP11-20I23.6	STK38	0.988778612	0.000188173
RP11-160E2.19	STK38	0.977939996	0.000724598
AC005786.7	STK38	0.971522492	0.001204906
AC005944.2	STK38	0.949191599	0.00380666
CTB-191K22.5	STK38	0.937972071	0.005651871
RP11-20I23.8	STK38	0.987457517	0.000234984
CDC37L1-AS1	STK38	0.96950247	0.001380966
RP5-1142A6.10	STK38	0.980783161	0.000550382
RP11-556I13.1	STK38	0.986520141	0.000271335
AC024028.1	STK4	0.990357674	0.000139013
RP11-498J9.2	STK4	0.935046922	0.006191338
RP11-34P13.14	STK4	0.949239365	0.003799567
RP11-473M20.11	STK4	0.984939195	0.000338534
CCDC144NL-AS1	STMN1	0.968473158	0.001475245
CTD-2531D15.5	STMN1	0.961951448	0.002143997
CTA-315H11.2	STMN3	-0.966238946	0.001690473
RP3-438O4.4	STMN3	0.921609544	0.008976738
PSMD5-AS1	STMN3	0.965412945	0.001773709
LL21NC02-21A1.1	FLCN	0.834076765	0.039011803
TOPORS-AS1	STMN3	0.926977843	0.007803667
AC087294.2	STMN3	0.944730229	0.004497704
CCDC144NL-AS1	NT5M	-0.851006608	0.031644792
AP001062.8	STMN3	0.91881678	0.009618545
RP11-455F5.3	STMN3	0.951881574	0.003417368
RP11-326C3.2	STMN3	0.986905529	0.000256075
AP006621.8	STMN3	0.972380508	0.00113372
JHDM1D-AS1	STMN3	0.954227181	0.003094776
RP11-20I23.6	STMN3	0.967111439	0.001604699
RP11-160E2.19	STMN3	0.996705976	1.63E-05
AC005786.7	STMN3	0.944842005	0.0044797
AC005944.2	STMN3	0.932938992	0.006594976
RP11-20I23.8	STMN3	0.957368647	0.002687409
CDC37L1-AS1	STMN3	0.931548579	0.006868028
RP5-1142A6.10	STMN3	0.967853238	0.001533511
RP11-556I13.1	STMN3	0.954287842	0.003086642
AC011558.5	STMN3	0.941164746	0.005090549
RP11-66D17.5	STOM	0.944537473	0.004528834
RP11-126K1.8	STOM	0.980687323	0.000555868
RP3-438O4.4	STOM	0.966106107	0.001703725
NUP50-AS1	STOM	0.964311169	0.001887811
PSMD5-AS1	STOM	0.935488421	0.006108375
TOPORS-AS1	STOM	0.931383482	0.006900809
LL21NC02-21A1.1	NT5M	0.858052893	0.028793427
AC087294.2	STOM	0.967655077	0.001552371
AP001062.8	STOM	0.975236343	0.000912265
CCDC144NL-AS1	ST3GAL1	-0.911883506	0.011304684
RP11-455F5.3	STOM	0.966721726	0.001642738
RP11-326C3.2	STOM	0.926545691	0.007895141

AP006621.8	STOM	0.936220625	0.005971992
JHDM1D-AS1	STOM	0.963386566	0.001986274
RP11-20I23.6	STOM	0.943839202	0.004642486
AC005786.7	STOM	0.9424522	0.004872332
CTB-191K22.5	STOM	0.960813858	0.002273244
RP11-20I23.8	STOM	0.960601425	0.002297793
CDC37L1-AS1	STOM	0.960405123	0.002320594
RP5-1142A6.10	STOM	0.91897625	0.009581318
RP11-556I13.1	STOM	0.963241573	0.002001939
AC024028.1	STON1	0.948788634	0.003866752
RP11-498J9.2	STON1	0.996329005	2.02E-05
RP11-34P13.14	STON1	0.986946128	0.000254493
RP11-93O14.2	STON1	0.989391661	0.000168208
RP11-485G7.6	STON1	0.960318201	0.002330725
RP11-78A19.3	STON1	0.984874383	0.000341446
LA16c-359F1.1	STON1	0.91753273	0.009920852
RMRP	ST3GAL1	0.83273874	0.039624816
Z69720.3	STON1	0.993351955	6.61E-05
RP3-339A18.6	STON2	0.92388154	0.008470514
CTA-315H11.2	STRADB	-0.943590138	0.004683359
RP11-66D17.5	STRADB	0.952277496	0.003361814
AC024028.1	TTLL3	0.88722967	0.018358663
RP11-126K1.8	STRADB	0.9746078	0.00095896
AC011558.5	TTLL3	0.893601682	0.016378657
RP3-438O4.4	STRADB	0.994242703	4.96E-05
NUP50-AS1	STRADB	0.984714433	0.000348687
PSMD5-AS1	STRADB	0.981754795	0.000496294
RP11-93O14.2	SPINK2	0.902165903	0.013889056
RP11-485G7.6	SPINK2	0.865674131	0.025853308
TOPORS-AS1	STRADB	0.980357665	0.000574943
RP11-78A19.3	SPINK2	0.913816048	0.010821437
AC087294.2	STRADB	0.999203989	9.50E-07
AP001062.8	STRADB	0.992508021	8.40E-05
RP11-455F5.3	STRADB	0.998980869	1.56E-06
RP11-326C3.2	STRADB	0.987324129	0.000239998
RP11-93O14.2	CAPN2	0.916300048	0.010215335
RP11-485G7.6	CAPN2	0.889284272	0.017708384
AP006621.8	STRADB	0.98363479	0.000399539
JHDM1D-AS1	STRADB	0.99994854	3.97E-09
RP11-20I23.6	STRADB	0.996282443	2.07E-05
CCDC144NL-AS1	MXI1	-0.874847968	0.022514417
RP11-160E2.19	STRADB	0.941058049	0.005108844
AC005786.7	STRADB	0.991807964	0.000100389
AC005944.2	STRADB	0.965076465	0.001808183
CTB-191K22.5	STRADB	0.978011135	0.000719949
RP11-20I23.8	STRADB	0.999651679	1.82E-07
CDC37L1-AS1	STRADB	0.995380617	3.20E-05
RP5-1142A6.10	STRADB	0.985706036	0.000305016
RP11-556I13.1	STRADB	0.999943306	4.82E-09
AC024028.1	STX11	0.971363858	0.001218302
RP11-498J9.2	STX11	0.999495104	3.82E-07
RP11-34P13.14	STX11	0.976544677	0.000818776
RP11-93O14.2	STX11	0.978181915	0.00070885
RP11-485G7.6	STX11	0.960543585	0.0023045
RP11-473M20.11	STX11	0.926172275	0.007974599
RP11-78A19.3	STX11	0.979410979	0.000631498
Z69720.3	STX11	0.983473456	0.000407433
AC024028.1	STX1A	0.946400585	0.004232353
RP11-473M20.11	STX1A	0.984336831	0.000366081
RMRP	MXI1	0.812154827	0.049614579
RP11-498J9.2	STXBP6	0.958093644	0.002597417
RP11-34P13.14	STXBP6	0.948148865	0.003963108
LL21NC02-21A1.1	MXI1	0.817903006	0.046719867

RP11-93O14.2	STXBP6	0.973282746	0.001061182
RP11-485G7.6	STXBP6	0.941950033	0.00495689
CTA-315H11.2	C19orf62	-0.897583441	0.015196596
RP11-78A19.3	STXBP6	0.954519131	0.003055725
Z69720.3	STXBP6	0.962418184	0.002092049
AC024028.1	SUCNR1	0.958441748	0.002554745
RP11-498J9.2	SUCNR1	0.999369557	5.96E-07
RP11-34P13.14	SUCNR1	0.976965772	0.000789753
RP11-93O14.2	SUCNR1	0.983929509	0.000385316
RP11-485G7.6	SUCNR1	0.970317385	0.00130851
RP11-78A19.3	SUCNR1	0.985246191	0.000324907
Z69720.3	SUCNR1	0.986999146	0.000252435
AC011558.5	SULF2	0.975996274	0.000857353
RP11-118G23.2	SUMO2P1	0.93194674	0.006789284
RP11-680G24.6	SUMO2P1	0.995409392	3.16E-05
LA16c-359F1.1	SUMO2P1	0.966005681	0.001713778
RP11-160E2.19	C19orf62	0.906660852	0.0126617
CCDC144NL-AS1	SUN2	-0.917783621	0.009861427
CTA-315H11.2	SUN2	-0.967342891	0.001582316
PSMD5-AS1	SUN2	0.95336115	0.00321205
RP11-455F5.3	SUN2	0.922327971	0.008815121
RP11-326C3.2	SUN2	0.968589005	0.00146448
LL21NC02-21A1.1	C19orf62	0.891772126	0.016936058
AP006621.8	SUN2	0.960808285	0.002273887
JHDM1D-AS1	SUN2	0.920913588	0.009134661
RP11-20I23.6	SUN2	0.93643206	0.005932889
RP11-498J9.2	KIF21B	0.861023392	0.027629615
RP11-34P13.14	KIF21B	0.848607149	0.032644746
RP11-160E2.19	SUN2	0.993910788	5.55E-05
Z69720.3	KIF21B	0.815360658	0.047990197
RP11-20I23.8	SUN2	0.925729709	0.008069274
RP5-1142A6.10	SUN2	0.936610343	0.005900015
RP11-556I13.1	SUN2	0.920877861	0.009142805
RP11-93O14.2	STK4	0.898077411	0.015052924
RP11-485G7.6	STK4	0.822434952	0.044494764
AC011558.5	SUN2	0.953411818	0.003205129
RP11-78A19.3	STK4	0.907168941	0.012526418
Z69720.3	STK4	0.911259858	0.011462813
AC024028.1	NFKB2	0.832303561	0.039825156
RP11-473M20.11	NFKB2	0.90687424	0.012604798
LLNLR-284B4.1	NFKB2	0.823727278	0.043869529
CTD-2541M15.3	NFKB2	-0.836082528	0.038101262
RP11-160E2.19	NFKB2	0.827614419	0.04201381
CTA-315H11.2	SUN3	-0.951428477	0.003481495
CCDC144NL-AS1	EML3	-0.854844565	0.030075931
RP11-66D17.5	SUN3	0.944051001	0.004607867
RP11-66D17.5	EML3	0.86382637	0.026552335
RP11-126K1.8	EML3	0.898963468	0.014796861
RP3-438O4.4	EML3	0.907688955	0.012388687
RP11-126K1.8	SUN3	0.96979806	0.001354461
RP3-438O4.4	SUN3	0.990535007	0.000133955
NUP50-AS1	SUN3	0.980715195	0.000554269
PSMD5-AS1	SUN3	0.985239952	0.000325181
TOPORS-AS1	SUN3	0.978568851	0.00068402
AC087294.2	SUN3	0.997906995	6.57E-06
AP001062.8	SUN3	0.989083984	0.000178089
RP11-455F5.3	SUN3	0.998627596	2.82E-06
RP11-326C3.2	SUN3	0.992304543	8.86E-05
AP006621.8	SUN3	0.98767567	0.000226898
JHDM1D-AS1	SUN3	0.999618192	2.19E-07
RP11-20I23.6	SUN3	0.997827355	7.08E-06
RP11-160E2.19	SUN3	0.952378	0.003347782
CTB-191K22.5	EML3	0.911912961	0.011297242

AC005786.7	SUN3	0.991134553	0.000117546
CDC37L1-AS1	EML3	0.914815219	0.010575601
AC005944.2	SUN3	0.966634436	0.001651319
CTB-191K22.5	SUN3	0.973480269	0.001045619
RP11-20I23.8	SUN3	0.999753716	9.10E-08
AC024028.1	FCGR2B	0.815363006	0.047989016
RP11-498J9.2	FCGR2B	0.876361041	0.021984879
RP11-93O14.2	FCGR2B	0.836365874	0.037973447
RP11-485G7.6	FCGR2B	0.907714484	0.012381945
RP11-78A19.3	FCGR2B	0.829732208	0.041018554
Z69720.3	FCGR2B	0.835537982	0.038347469
CTD-2621I17.8	FCGR2B	-0.811958999	0.049714617
CCDC144NL-AS1	AMICA1	-0.88903881	0.01778548
CDC37L1-AS1	SUN3	0.992707917	7.96E-05
RP11-66D17.5	AMICA1	0.916665251	0.010127654
RP5-1142A6.10	SUN3	0.988415264	0.000200532
RP11-556I13.1	SUN3	0.999616687	2.20E-07
CTA-315H11.2	SUSD4	-0.969045183	0.001422471
RP11-126K1.8	SUSD4	0.929380889	0.007304497
RP3-438O4.4	SUSD4	0.967806585	0.001537941
NUP50-AS1	SUSD4	0.947082113	0.004126361
PSMD5-AS1	SUSD4	0.976384737	0.000829936
TOPORS-AS1	SUSD4	0.960802518	0.002274552
AC087294.2	SUSD4	0.978919756	0.000661881
AP001062.8	SUSD4	0.959104919	0.002474415
RP11-455F5.3	SUSD4	0.981984525	0.000483912
RP11-326C3.2	SUSD4	0.995669614	2.81E-05
AP006621.8	SUSD4	0.982142416	0.000475493
JHDM1D-AS1	SUSD4	0.98606458	0.000289941
RP11-20I23.6	SUSD4	0.989349888	0.000169533
RP11-160E2.19	SUSD4	0.977151311	0.00077713
AC005786.7	SUSD4	0.974570589	0.00096176
AC005944.2	SUSD4	0.948228912	0.003950989
CTB-191K22.5	SUSD4	0.93748162	0.005740644
RP11-20I23.8	SUSD4	0.986832253	0.000258943
AC011558.5	AMICA1	0.878151875	0.021365911
CCDC144NL-AS1	ACCS	-0.863944869	0.02650724
CTA-315H11.2	ACCS	-0.871806109	0.023597162
CTD-2139B15.2	ACCS	-0.876784015	0.021837925
RP11-326C3.2	ACCS	0.833687935	0.039189483
RP11-160E2.19	ACCS	0.904779396	0.013168764
CDC37L1-AS1	SUSD4	0.975200438	0.000914901
RP5-1142A6.10	SUSD4	0.982843014	0.000439018
RP11-498J9.2	GAPT	0.864238168	0.026395781
RP11-34P13.14	GAPT	0.857689371	0.028937413
RP11-556I13.1	SUSD4	0.986153958	0.000286242
Z69720.3	GAPT	0.822682015	0.044374915
CCDC144NL-AS1	SYTL1	-0.90702164	0.012565565
AC024028.1	SV2A	0.956975242	0.002736872
RP11-66D17.5	SYTL1	0.849353461	0.032332155
RP11-126K1.8	SYTL1	0.900826093	0.014265485
RP11-498J9.2	SV2A	0.999249877	8.44E-07
NUP50-AS1	SYTL1	0.915789508	0.010338525
RP11-34P13.14	SV2A	0.979419669	0.000630967
RP11-93O14.2	SV2A	0.985433321	0.000316737
RP11-485G7.6	SV2A	0.966394943	0.001674975
RP11-78A19.3	SV2A	0.982936393	0.000434266
Z69720.3	SV2A	0.989287264	0.000171529
AC024028.1	SVIL	0.970175024	0.001321029
RP11-498J9.2	SVIL	0.999723956	1.14E-07
RP11-34P13.14	SVIL	0.978631105	0.000680066
RP11-93O14.2	SVIL	0.98002783	0.000594348
RP11-485G7.6	SVIL	0.960871005	0.002266663

RP11-473M20.11	SVIL	0.923896929	0.008467134
RP11-78A19.3	SVIL	0.981232264	0.000525037
CTB-191K22.5	SYTL1	0.904424207	0.013265569
Z69720.3	SVIL	0.984813135	0.00034421
RP11-21J18.1	SYCP2L	0.975233668	0.000912461
RP11-165D6.1	SYCP2L	0.936032249	0.006006936
RP11-498J9.2	SYN1	0.930500436	0.007077436
RP11-93O14.2	SYN1	0.930390344	0.007099609
CCDC144NL-AS1	SHARPIN	-0.824679028	0.043411706
CTA-315H11.2	SHARPIN	-0.914675793	0.010609741
RP11-485G7.6	SYN1	0.957606672	0.002657697
RP11-78A19.3	SYN1	0.917281814	0.009980456
Z69720.3	SYN1	0.952998021	0.003261861
CTA-315H11.2	SYNE1	-0.972861712	0.001094737
PSMD5-AS1	SYNE1	0.96737142	0.001579568
AC087294.2	SYNE1	0.940386872	0.005224663
RP11-455F5.3	SYNE1	0.949228443	0.003801188
RP11-326C3.2	SYNE1	0.985682209	0.000306031
AP006621.8	SYNE1	0.974594874	0.000959932
JHDM1D-AS1	SYNE1	0.949902536	0.003701768
RP11-20I23.6	SYNE1	0.962000891	0.002138464
RP11-160E2.19	SYNE1	0.996793368	1.54E-05
AC005786.7	SYNE1	0.936475448	0.005924881
RP11-160E2.19	SHARPIN	0.914804391	0.01057825
AC005944.2	SYNE1	0.931387126	0.006900084
RP11-20I23.8	SYNE1	0.953354372	0.003212976
CDC37L1-AS1	SYNE1	0.923051855	0.00865372
RP5-1142A6.10	SYNE1	0.960833076	0.00227103
RP11-556I13.1	SYNE1	0.949917046	0.003699642
LL21NC02-21A1.1	SHARPIN	0.893493402	0.016411396
AC011558.5	SYNE1	0.939809969	0.00532523
CTA-315H11.2	SYNE2	-0.960483359	0.002311493
CCDC144NL-AS1	FYN	-0.914889213	0.010557504
RP11-66D17.5	SYNE2	0.929015911	0.007379276
RP11-66D17.5	FYN	0.881107685	0.02036278
RP11-126K1.8	SYNE2	0.961270262	0.002220942
RP3-438O4.4	SYNE2	0.980981822	0.000539097
NUP50-AS1	SYNE2	0.972707815	0.001107131
PSMD5-AS1	SYNE2	0.98962416	0.000160929
TOPORS-AS1	SYNE2	0.97311445	0.001074532
AC087294.2	SYNE2	0.993231433	6.86E-05
AP001062.8	SYNE2	0.981657019	0.000501612
RP11-455F5.3	SYNE2	0.995696633	2.77E-05
RP11-326C3.2	SYNE2	0.997968827	6.18E-06
AP006621.8	SYNE2	0.992762917	7.84E-05
JHDM1D-AS1	SYNE2	0.996103337	2.27E-05
RP11-20I23.6	SYNE2	0.997746242	7.61E-06
RP11-160E2.19	SYNE2	0.96868859	0.001455258
AC005786.7	SYNE2	0.987553729	0.0002314
AC005944.2	SYNE2	0.968246361	0.001496432
CTB-191K22.5	SYNE2	0.964461874	0.001871996
RP11-20I23.8	SYNE2	0.997107989	1.25E-05
CDC37L1-AS1	SYNE2	0.984331958	0.000366308
RP5-1142A6.10	SYNE2	0.990652615	0.000130652
RP11-556I13.1	SYNE2	0.996092321	2.29E-05
AC011558.5	FYN	0.899912689	0.014524894
CTD-2139B15.2	SYNGR1	0.987393172	0.000237396
AC024028.1	SYP	0.959623854	0.002412438
RP11-498J9.2	SYP	0.999819028	4.91E-08
RP11-34P13.14	SYP	0.976551409	0.000818308
RP11-93O14.2	SYP	0.984269412	0.000369231
RP11-485G7.6	SYP	0.969171833	0.001410915
RP11-78A19.3	SYP	0.983877676	0.000387799

RP11-680G24.6	PLK2	0.818611386	0.046368735
LA16c-359F1.1	PLK2	0.872461959	0.023361664
Z69720.3	SYP	0.986570154	0.00026933
CCDC144NL-AS1	SLC11A1	-0.872519739	0.023340971
AC024028.1	SYT11	0.940257734	0.005247093
RP11-498J9.2	SYT11	0.996035652	2.35E-05
RP11-34P13.14	SYT11	0.977589951	0.000747688
RP11-93O14.2	SYT11	0.992043319	9.47E-05
RP11-485G7.6	SYT11	0.97232655	0.001138133
RP11-78A19.3	SYT11	0.987871177	0.00021977
LA16c-359F1.1	SYT11	0.920369723	0.009259005
Z69720.3	SYT11	0.987655637	0.000227634
CTA-315H11.2	SYTL1	-0.969164805	0.001411555
RP3-438O4.4	SYTL1	0.92455392	0.008323443
PSMD5-AS1	SYTL1	0.974138977	0.000994541
TOPORS-AS1	SYTL1	0.928607731	0.007463346
AC087294.2	SYTL1	0.950429413	0.003624961
AP001062.8	SYTL1	0.927636291	0.007665293
RP11-455F5.3	SYTL1	0.958255552	0.002577527
RP11-326C3.2	SYTL1	0.990376771	0.000138464
AP006621.8	SYTL1	0.980343245	0.000575784
JHDM1D-AS1	SYTL1	0.958452538	0.002553428
RP11-20I23.6	SYTL1	0.970648833	0.001279594
RP11-160E2.19	SYTL1	0.997455887	9.70E-06
AC005786.7	SYTL1	0.948335165	0.003934929
AC005944.2	SYTL1	0.942234034	0.00490898
AC011558.5	SLC11A1	0.86819303	0.02491467
CCDC144NL-AS1	MYO1F	-0.885872556	0.018794351
RP11-20I23.8	SYTL1	0.96188132	0.002151857
RP11-66D17.5	MYO1F	0.820693872	0.045343624
RP11-126K1.8	MYO1F	0.869373077	0.02448062
RP3-438O4.4	MYO1F	0.898223509	0.015010557
NUP50-AS1	MYO1F	0.891502032	0.017019105
CDC37L1-AS1	SYTL1	0.933113838	0.006561022
TOPORS-AS1	MYO1F	0.913920815	0.010795532
RP5-1142A6.10	SYTL1	0.970505064	0.001292097
AP001062.8	MYO1F	0.901248732	0.014146217
RP11-556I13.1	SYTL1	0.958454776	0.002553155
AC011558.5	SYTL1	0.934713195	0.006254412
CTD-2139B15.2	SYTL2	-0.958497047	0.002547998
RP11-91K8.5	TAC3	0.99860334	2.92E-06
RP11-498J9.2	TACC1	0.923868893	0.008473292
RP11-34P13.14	TACC1	0.920617879	0.009202168
RP11-93O14.2	TACC1	0.960676215	0.002289136
RP11-485G7.6	TACC1	0.924934336	0.008240789
CTB-191K22.5	MYO1F	0.877855506	0.021467762
RP11-78A19.3	TACC1	0.973694826	0.001028842
CDC37L1-AS1	MYO1F	0.9071467	0.012532325
RP11-680G24.6	TACC1	0.918649457	0.009657681
LA16c-359F1.1	TACC1	0.975873861	0.000866084
RP11-160E2.19	TADA1	-0.933428352	0.006500161
AC011558.5	TADA1	-0.993116691	7.09E-05
RP11-498J9.2	TAF13	0.953323629	0.003217179
RP11-66D17.5	RNF44	0.820952639	0.04521699
RP11-126K1.8	RNF44	0.881265105	0.020310002
RP3-438O4.4	RNF44	0.909408915	0.011938388
NUP50-AS1	RNF44	0.89474948	0.016033543
RP11-34P13.14	TAF13	0.934896578	0.006219714
TOPORS-AS1	RNF44	0.913316969	0.010945256
RP11-93O14.2	TAF13	0.983429322	0.000409606
AP001062.8	RNF44	0.909856347	0.011822569
RP11-485G7.6	TAF13	0.971206348	0.001231676
RP11-78A19.3	TAF13	0.973990228	0.001005964

RP11-680G24.6	TAF13	0.922402152	0.008798514
LA16c-359F1.1	TAF13	0.960460712	0.002314126
Z69720.3	TAF13	0.951050879	0.003535383
CTA-315H11.2	TAL1	-0.939356581	0.005404925
RP11-66D17.5	TAL1	0.92869695	0.007444931
RP11-126K1.8	TAL1	0.971812422	0.001180611
CTB-191K22.5	RNF44	0.881581215	0.020204219
RP3-438O4.4	TAL1	0.980531572	0.00056484
NUP50-AS1	TAL1	0.965100794	0.001805679
PSMD5-AS1	TAL1	0.959857333	0.002384807
TOPORS-AS1	TAL1	0.953044822	0.00325542
AC087294.2	TAL1	0.984789876	0.000345262
AP001062.8	TAL1	0.97996034	0.000598358
RP11-767C1.1	GTPBP2	0.815131885	0.048105283
MIR210HG	GTPBP2	0.834611546	0.038768048
LLNLR-284B4.1	IMPDH1	0.812828656	0.049271071
CTD-2541M15.3	IMPDH1	-0.83309725	0.039460126
RP11-91K8.5	IMPDH1	-0.856374502	0.029461052
RP11-160E2.19	IMPDH1	0.87405978	0.022792643
RP11-455F5.3	TAL1	0.985842221	0.000299245
RP11-156P1.3	EHBP1L1	-0.832742771	0.039622962
RP11-326C3.2	TAL1	0.966365456	0.001677899
AP006621.8	TAL1	0.964508084	0.00186716
RP3-438O4.4	EHBP1L1	0.870288043	0.024146573
JHDM1D-AS1	TAL1	0.986440458	0.000274545
PSMD5-AS1	EHBP1L1	0.880777228	0.020473784
TOPORS-AS1	EHBP1L1	0.842972377	0.035050544
AC087294.2	EHBP1L1	0.885178648	0.019019015
RP11-20I23.6	TAL1	0.972339934	0.001137038
RP11-455F5.3	EHBP1L1	0.883691021	0.019504967
RP11-326C3.2	EHBP1L1	0.822222125	0.044598127
AP006621.8	EHBP1L1	0.867246221	0.025265551
JHDM1D-AS1	EHBP1L1	0.865121665	0.026061384
RP11-20I23.6	EHBP1L1	0.85574543	0.029713147
AC005786.7	EHBP1L1	0.870580716	0.024040182
AC005944.2	EHBP1L1	0.906725102	0.012644555
AC005786.7	TAL1	0.96317517	0.002009134
RP11-20I23.8	EHBP1L1	0.867514178	0.025166011
CDC37L1-AS1	EHBP1L1	0.85708646	0.029176967
AC005944.2	TAL1	0.928104051	0.007567725
RP5-1142A6.10	EHBP1L1	0.842748918	0.035147609
RP11-556I13.1	EHBP1L1	0.864585799	0.026263963
CTA-315H11.2	ANK1	-0.866340189	0.025603505
CTB-191K22.5	TAL1	0.957664843	0.00265046
RP11-20I23.8	TAL1	0.984096601	0.000377366
CDC37L1-AS1	TAL1	0.979812212	0.000607206
RP5-1142A6.10	TAL1	0.950942788	0.003550884
RP11-556I13.1	TAL1	0.986409411	0.000275801
CCDC144NL-AS1	TANK	-0.932467114	0.006687038
CTA-315H11.2	TANK	-0.924635248	0.008305739
PSMD5-AS1	TANK	0.922497247	0.008777248
AP006621.8	TANK	0.927498611	0.007694127
RP11-326C3.2	ANK1	0.915999607	0.010287743
RP11-160E2.19	TANK	0.946296081	0.004248722
RP11-118G23.2	TAOK1	0.935054807	0.006189852
RP11-680G24.6	TAOK1	0.979078308	0.000651997
RP11-160E2.19	ANK1	0.833433819	0.039305808
CTA-315H11.2	TAS2R40	-0.951227173	0.003510173
RP11-66D17.5	TAS2R40	0.944297791	0.004567689
RP11-126K1.8	TAS2R40	0.969926407	0.001343032
RMRP	ANK1	0.852839542	0.030890833
RP3-438O4.4	TAS2R40	0.990668128	0.000130219
NUP50-AS1	TAS2R40	0.980834868	0.000547434

PSMD5-AS1	TAS2R40	0.985140699	0.000329558
TOPORS-AS1	TAS2R40	0.978638436	0.000679601
AC087294.2	TAS2R40	0.997958754	6.25E-06
AP001062.8	TAS2R40	0.989188632	0.000174697
RP11-498J9.2	SPATA20	0.838698618	0.036928823
RP11-34P13.14	SPATA20	0.842940284	0.035064476
RP11-455F5.3	TAS2R40	0.998649001	2.74E-06
RP11-473M20.11	DENND3	0.84434478	0.034457171
CTA-315H11.2	DENND3	-0.81642013	0.047458888
CTD-2541M15.3	DENND3	-0.812180359	0.049601543
RP11-160E2.19	DENND3	0.894252225	0.016182621
RP11-326C3.2	TAS2R40	0.992174688	9.16E-05
RP11-473M20.11	SH3BP2	0.858040945	0.028798154
CTD-2139B15.2	SH3BP2	-0.842777552	0.035135164
CTD-2541M15.3	SH3BP2	-0.825482159	0.043027116
RP11-91K8.5	SH3BP2	-0.838222631	0.037140864
RP11-160E2.19	SH3BP2	0.855733335	0.029718004
AP006621.8	TAS2R40	0.987561555	0.00023111
RP3-337H4.8	ABCB6	0.86998955	0.024255311
JHDM1D-AS1	TAS2R40	0.999646474	1.87E-07
CTC-1337H24.3	ABCB6	0.911539039	0.011391894
CCDC144NL-AS1	MIB2	-0.910024457	0.011779195
RP11-20I23.6	TAS2R40	0.997800067	7.25E-06
RP11-66D17.5	MIB2	0.82562787	0.042957511
RP11-126K1.8	MIB2	0.894623345	0.016071295
RP3-438O4.4	MIB2	0.873018506	0.023162706
NUP50-AS1	MIB2	0.894753106	0.016032458
RP11-160E2.19	TAS2R40	0.952067384	0.00339124
TOPORS-AS1	MIB2	0.882657976	0.019845876
AC087294.2	MIB2	0.915706387	0.010358649
AP001062.8	MIB2	0.902526279	0.013788634
AC005786.7	TAS2R40	0.991172008	0.000116556
AC005944.2	TAS2R40	0.96659275	0.001655425
CTB-191K22.5	TAS2R40	0.973618031	0.001034831
RP11-20I23.8	TAS2R40	0.999768179	8.06E-08
CDC37L1-AS1	TAS2R40	0.992817958	7.72E-05
RP5-1142A6.10	TAS2R40	0.988352711	0.000202699
AC005786.7	MIB2	0.91182472	0.011319544
RP11-556I13.1	TAS2R40	0.999645056	1.89E-07
CTB-191K22.5	MIB2	0.885334017	0.018968601
CTA-315H11.2	TBC1D10C	-0.968188886	0.001501825
CDC37L1-AS1	MIB2	0.877706956	0.021518901
RP11-126K1.8	TBC1D10C	0.946548105	0.004209299
RP3-438O4.4	TBC1D10C	0.969330684	0.001396487
NUP50-AS1	TBC1D10C	0.959232058	0.002459159
CCDC144NL-AS1	IRF7	-0.864652948	0.026238537
CTA-315H11.2	IRF7	-0.882088381	0.020035053
CTD-2541M15.3	IRF7	-0.816982099	0.047178185
PSMD5-AS1	IRF7	0.868957025	0.02463324
RP11-326C3.2	IRF7	0.880850976	0.020448986
AP006621.8	IRF7	0.876544692	0.021921015
RP11-20I23.6	IRF7	0.830875453	0.040485924
PSMD5-AS1	TBC1D10C	0.988173973	0.000208955
AC005944.2	IRF7	0.829155681	0.041288389
RP5-1142A6.10	IRF7	0.843887656	0.034654284
TOPORS-AS1	TBC1D10C	0.964095108	0.001910598
RP11-473M20.11	GLIPR2	0.814710779	0.04831746
LLNLR-284B4.1	GLIPR2	0.881665068	0.020176203
RP11-77G23.2	GLIPR2	-0.833909063	0.03908839
CTD-2541M15.3	GLIPR2	-0.848417357	0.032724467
CCDC144NL-AS1	NRD1	-0.829435637	0.041157256
CTA-315H11.2	NRD1	-0.900065969	0.014481205
AC087294.2	TBC1D10C	0.984925958	0.000339128

AP001062.8	TBC1D10C	0.969515234	0.001379816
RP11-455F5.3	TBC1D10C	0.988864633	0.000185304
RP11-326C3.2	TBC1D10C	0.999859062	2.98E-08
AP006621.8	TBC1D10C	0.992480615	8.46E-05
JHDM1D-AS1	TBC1D10C	0.989656672	0.000159923
RP11-20I23.6	TBC1D10C	0.993889216	5.59E-05
RP11-160E2.19	TBC1D10C	0.980473147	0.000568224
AC005786.7	TBC1D10C	0.979895034	0.000602251
AC005944.2	TBC1D10C	0.962854818	0.002044021
CTB-191K22.5	TBC1D10C	0.950021241	0.003684394
RP11-20I23.8	TBC1D10C	0.991198742	0.000115852
CDC37L1-AS1	TBC1D10C	0.974485588	0.000968173
RP11-160E2.19	NRD1	0.874393434	0.022674666
RP5-1142A6.10	TBC1D10C	0.988282303	0.000205152
RP11-556I13.1	TBC1D10C	0.989660415	0.000159808
RP11-680G24.6	TBC1D13	0.930772806	0.007022724
RMRP	NRD1	0.834598785	0.038773856
RP11-77G23.2	TBC1D23	0.927466449	0.00770087
RP11-118G23.2	TBC1D5	0.965913402	0.001723042
LL21NC02-21A1.1	NRD1	0.905789909	0.012895229
RP11-680G24.6	TBC1D5	0.943458216	0.004705079
CTD-2139B15.2	TBC1D7	0.941933314	0.004959717
CTA-315H11.2	FPR1	-0.844905304	0.034216195
RP11-66D17.5	FPR1	0.875745474	0.022199586
RP11-126K1.8	FPR1	0.868049335	0.024967772
RP3-438O4.4	FPR1	0.902217001	0.013874796
NUP50-AS1	FPR1	0.91530354	0.010456451
AC024028.1	TBC1D8	0.999516868	3.50E-07
RP11-498J9.2	TBC1D8	0.962208009	0.002115364
RP11-34P13.14	TBC1D8	0.950561893	0.003605773
AP001062.8	FPR1	0.906316882	0.012753684
RP11-473M20.11	TBC1D8	0.987863965	0.000220031
RP11-78A19.3	TBC1D8	0.91916426	0.009537518
Z69720.3	TBC1D8	0.9389572	0.005475606
AC024028.1	TBC1D9	0.948977377	0.003838548
RP11-498J9.2	TBC1D9	0.996271307	2.08E-05
RP11-34P13.14	TBC1D9	0.960688854	0.002287674
RP11-93O14.2	TBC1D9	0.976644563	0.000811845
RP11-485G7.6	TBC1D9	0.97681641	0.000799988
CTB-191K22.5	FPR1	0.900163807	0.014453351
RP11-78A19.3	TBC1D9	0.975058304	0.000925374
CDC37L1-AS1	FPR1	0.901803636	0.013990358
Z69720.3	TBC1D9	0.980940363	0.000541443
CTD-2139B15.2	TBC1D9B	-0.953571392	0.003183382
AC011558.5	FPR1	0.916014217	0.010284216
CCDC144NL-AS1	RNF10	-0.864961311	0.026121926
RP11-91K8.5	TBC1D9B	-0.949060521	0.003826156
CTA-315H11.2	TBCEL	-0.95223255	0.003368098
RP11-66D17.5	TBCEL	0.943813227	0.004646741
RP11-126K1.8	TBCEL	0.970582612	0.001285345
RP3-438O4.4	TBCEL	0.991395133	0.000110747
NUP50-AS1	TBCEL	0.980022276	0.000594678
PSMD5-AS1	TBCEL	0.983307157	0.000415651
TOPORS-AS1	TBCEL	0.976855794	0.000797283
AC087294.2	TBCEL	0.997878584	6.75E-06
AP001062.8	TBCEL	0.989204273	0.000174192
RP11-455F5.3	TBCEL	0.998492044	3.41E-06
RP11-326C3.2	TBCEL	0.990616305	0.000131667
AP006621.8	TBCEL	0.985985274	0.000293242
JHDM1D-AS1	TBCEL	0.999758153	8.77E-08
RP11-20I23.6	TBCEL	0.996411975	1.93E-05
RP11-160E2.19	TBCEL	0.947875222	0.004004677
AC005786.7	TBCEL	0.989454291	0.000166232

AC005944.2	TBCEL	0.96346008	0.001978355
CTB-191K22.5	TBCEL	0.97308362	0.001076987
RP11-20I23.8	TBCEL	0.999556142	2.95E-07
LL21NC02-21A1.1	RNF10	0.824082717	0.043698289
CDC37L1-AS1	TBCEL	0.993639377	6.06E-05
RP5-1142A6.10	TBCEL	0.985421723	0.00031724
CCDC144NL-AS1	USP20	-0.867372978	0.025218441
RP11-556I13.1	TBCEL	0.999761195	8.55E-08
AC024028.1	TBXAS1	0.919765549	0.009398093
RP11-498J9.2	TBXAS1	0.973645812	0.001032663
RP11-93O14.2	TBXAS1	0.942596219	0.004848213
RP11-485G7.6	TBXAS1	0.978195617	0.000707963
RP11-78A19.3	TBXAS1	0.942732067	0.004825516
Z69720.3	TBXAS1	0.947741089	0.004025131
CTA-315H11.2	TC2N	-0.962084861	0.002129084
RP11-66D17.5	TC2N	0.926227402	0.007962844
RP11-126K1.8	TC2N	0.959703114	0.002403041
RP3-438O4.4	TC2N	0.979966012	0.000598021
NUP50-AS1	TC2N	0.970946031	0.001253937
PSMD5-AS1	TC2N	0.98924141	0.000172998
TOPORS-AS1	TC2N	0.971968699	0.001167618
AC087294.2	TC2N	0.992461636	8.50E-05
AP001062.8	TC2N	0.980335163	0.000576256
RP11-455F5.3	TC2N	0.995116362	3.57E-05
RP11-326C3.2	TC2N	0.998281501	4.43E-06
AP006621.8	TC2N	0.99265907	8.06E-05
JHDM1D-AS1	TC2N	0.99566215	2.82E-05
RP11-20I23.6	TC2N	0.997268016	1.12E-05
RP11-160E2.19	TC2N	0.96960856	0.001371424
AC011558.5	USP20	0.862458472	0.027075525
CCDC144NL-AS1	SEMA4D	-0.908321252	0.01222221
AC005786.7	TC2N	0.986447273	0.00027427
CTD-2139B15.2	SEMA4D	-0.839430693	0.036603814
RP3-438O4.4	SEMA4D	0.829684214	0.041040986
PSMD5-AS1	SEMA4D	0.895299054	0.015869551
TOPORS-AS1	SEMA4D	0.829649628	0.041057154
AC087294.2	SEMA4D	0.859910385	0.028063014
AP001062.8	SEMA4D	0.819120796	0.046116991
RP11-455F5.3	SEMA4D	0.872434851	0.023371375
AC005944.2	TC2N	0.966803063	0.001634763
AP006621.8	SEMA4D	0.909167673	0.012001061
JHDM1D-AS1	SEMA4D	0.87846062	0.021260052
RP11-20I23.6	SEMA4D	0.891089603	0.017146293
CTB-191K22.5	TC2N	0.962523617	0.002080401
AC005786.7	SEMA4D	0.851313918	0.031517784
AC005944.2	SEMA4D	0.837031835	0.037673829
RP11-20I23.8	SEMA4D	0.88130235	0.020297525
CDC37L1-AS1	SEMA4D	0.84708529	0.033286568
RP5-1142A6.10	SEMA4D	0.88739549	0.018305763
RP11-556I13.1	SEMA4D	0.878620161	0.021205449
RP11-20I23.8	TC2N	0.996643027	1.69E-05
CCDC144NL-AS1	ISCU	-0.859816129	0.028099864
CDC37L1-AS1	TC2N	0.983535539	0.000404386
RP5-1142A6.10	TC2N	0.989993125	0.000149705
RP11-556I13.1	TC2N	0.995654825	2.83E-05
CTA-315H11.2	TCEA3	-0.958637234	0.002530934
RP11-66D17.5	TCEA3	0.933110498	0.00656167
RP11-126K1.8	TCEA3	0.961585752	0.002185139
RP3-438O4.4	TCEA3	0.985475652	0.000314903
NUP50-AS1	TCEA3	0.974110874	0.000996694
PSMD5-AS1	TCEA3	0.986459759	0.000273766
TOPORS-AS1	TCEA3	0.975350096	0.000903938
AC087294.2	TCEA3	0.994781599	4.08E-05

AP001062.8	TCEA3	0.983208139	0.000420583
RP11-455F5.3	TCEA3	0.996355494	1.99E-05
RP11-326C3.2	TCEA3	0.995956685	2.45E-05
AP006621.8	TCEA3	0.989608141	0.000161425
JHDM1D-AS1	TCEA3	0.997781113	7.38E-06
RP11-20I23.6	TCEA3	0.997911756	6.54E-06
RP11-160E2.19	TCEA3	0.96294362	0.002034321
RMRP	ISCU	0.815965873	0.047686354
AC005786.7	TCEA3	0.988876439	0.000184912
AC005944.2	TCEA3	0.965720253	0.00174251
LL21NC02-21A1.1	ISCU	0.849885152	0.032110322
CTB-191K22.5	TCEA3	0.96633288	0.001681132
RP11-20I23.8	TCEA3	0.998290493	4.38E-06
LLNLR-284B4.1	TYMP	0.818713072	0.046318432
RP4-784A16.3	TYMP	-0.85957522	0.028194152
CDC37L1-AS1	TCEA3	0.989038599	0.00017957
TOPORS-AS1	TYMP	0.817258799	0.047040258
RP11-160E2.19	TYMP	0.811509929	0.049944375
AC005786.7	TYMP	0.822285374	0.044567397
AC005944.2	TYMP	0.852391129	0.031074489
RP5-1142A6.10	TYMP	0.844666489	0.034318767
RP5-1142A6.10	TCEA3	0.989694257	0.000158765
RP11-498J9.2	TRIM22	0.848103171	0.032856639
RP11-34P13.14	TRIM22	0.836388403	0.037963293
RP11-556I13.1	TCEA3	0.997794329	7.29E-06
CCDC144NL-AS1	ANKRD13D	-0.894500427	0.016108126
CTA-315H11.2	TCEANC	-0.921864167	0.008919295
RP11-66D17.5	ANKRD13D	0.872534097	0.02333583
RP11-126K1.8	ANKRD13D	0.915198213	0.010482095
RP11-66D17.5	TCEANC	0.944578138	0.004522258
RP11-126K1.8	TCEANC	0.986395699	0.000276357
RP3-438O4.4	TCEANC	0.974520163	0.000965562
NUP50-AS1	TCEANC	0.973835451	0.00101792
PSMD5-AS1	TCEANC	0.962002068	0.002138333
TOPORS-AS1	TCEANC	0.946231719	0.004258819
AC087294.2	TCEANC	0.98212853	0.00047623
AP001062.8	TCEANC	0.985012376	0.00033526
RP11-455F5.3	TCEANC	0.983228987	0.000419542
RP11-326C3.2	TCEANC	0.955717946	0.002897934
AP006621.8	TCEANC	0.96351487	0.001972463
JHDM1D-AS1	TCEANC	0.979667614	0.000615906
RP11-20I23.6	TCEANC	0.965853166	0.001729102
AC005786.7	TCEANC	0.960165531	0.002348573
AC005944.2	TCEANC	0.938976144	0.005472243
CTB-191K22.5	TCEANC	0.969053829	0.00142168
RP11-20I23.8	TCEANC	0.978206524	0.000707258
CDC37L1-AS1	TCEANC	0.971101714	0.0012406
RP5-1142A6.10	TCEANC	0.945106614	0.004437221
RP11-556I13.1	TCEANC	0.979525713	0.000624503
RP11-118G23.2	TCF4	0.957082424	0.002723352
CTA-315H11.2	TCF7	-0.956856057	0.002751946
AC011558.5	TBC1D9B	0.888439137	0.017974506
CCDC144NL-AS1	CYTH4	-0.899514931	0.014638562
RP11-66D17.5	TCF7	0.936518625	0.005916916
RP11-126K1.8	CYTH4	0.862775367	0.026953889
RP3-438O4.4	CYTH4	0.884653478	0.019189898
NUP50-AS1	CYTH4	0.879924486	0.020761561
RP11-126K1.8	TCF7	0.965584741	0.001756234
TOPORS-AS1	CYTH4	0.898202848	0.015016546
RP3-438O4.4	TCF7	0.986282564	0.000280961
AP001062.8	CYTH4	0.891324727	0.017073728
NUP50-AS1	TCF7	0.976780471	0.00080246
PSMD5-AS1	TCF7	0.987596142	0.000229829

TOPORS-AS1	TCF7	0.976068625	0.000852213
AC087294.2	TCF7	0.99594829	2.46E-05
AP001062.8	TCF7	0.985584962	0.000310192
RP11-455F5.3	TCF7	0.99753074	9.14E-06
RP11-326C3.2	TCF7	0.995555398	2.96E-05
AP006621.8	TCF7	0.990456261	0.00013619
CTB-191K22.5	CYTH4	0.866626134	0.025496616
JHDM1D-AS1	TCF7	0.998348663	4.09E-06
CDC37L1-AS1	CYTH4	0.8941997	0.016198407
RP11-20I23.6	TCF7	0.99814087	5.18E-06
RP11-160E2.19	TCF7	0.960851622	0.002268894
AC005786.7	TCF7	0.989587255	0.000162073
RP4-784A16.3	SIPA1	-0.823063053	0.04419037
CTA-315H11.2	SIPA1	-0.814259418	0.048545361
RP11-77G23.2	SIPA1	-0.855941232	0.029634572
RP11-66D17.5	SIPA1	0.906965241	0.01258057
RP11-126K1.8	SIPA1	0.909269191	0.011974668
RP3-438O4.4	SIPA1	0.871023064	0.023879806
AC005944.2	TCF7	0.967366846	0.001580008
CTB-191K22.5	TCF7	0.969061705	0.00142096
TOPORS-AS1	SIPA1	0.896368334	0.015552806
AC087294.2	SIPA1	0.902153779	0.01389244
AP001062.8	SIPA1	0.911999449	0.011275403
RP11-455F5.3	SIPA1	0.904971652	0.013116509
RP11-326C3.2	SIPA1	0.904254961	0.013311816
RP11-20I23.8	TCF7	0.998877089	1.89E-06
JHDM1D-AS1	SIPA1	0.890173409	0.017430463
RP11-20I23.6	SIPA1	0.915224509	0.01047569
RP11-160E2.19	SIPA1	0.906877346	0.012603971
CDC37L1-AS1	TCF7	0.989154783	0.00017579
RP5-1142A6.10	TCF7	0.989725019	0.00015782
RP11-556I13.1	TCF7	0.998345295	4.10E-06
RP11-20I23.8	SIPA1	0.898559596	0.014913315
CDC37L1-AS1	SIPA1	0.86655163	0.025524446
LL21NC02-21A1.1	SIPA1	0.822830733	0.044302845
AC024028.1	TCF7L2	0.996345048	2.00E-05
RP11-556I13.1	SIPA1	0.889798137	0.017547506
AC011558.5	SIPA1	0.819825173	0.045769948
CCDC144NL-AS1	TBC1D10C	-0.896794317	0.015427476
RP11-498J9.2	TCF7L2	0.945784088	0.004329367
RP11-66D17.5	TBC1D10C	0.90859644	0.012150096
RP11-34P13.14	TCF7L2	0.92853125	0.00747915
RP11-473M20.11	TCF7L2	0.99628397	2.07E-05
RP11-770G2.2	TCN2	0.954020961	0.003122507
AC005943.6	TCN2	0.92938014	0.007304651
CTA-315H11.2	TCP11L2	-0.950432046	0.003624579
RP11-66D17.5	TCP11L2	0.947016003	0.004136585
RP11-126K1.8	TCP11L2	0.973607259	0.001035673
RP3-438O4.4	TCP11L2	0.991181631	0.000116303
NUP50-AS1	TCP11L2	0.982541484	0.000454539
PSMD5-AS1	TCP11L2	0.985364098	0.000319747
TOPORS-AS1	TCP11L2	0.977462663	0.000756174
AC087294.2	TCP11L2	0.998556523	3.12E-06
AP001062.8	TCP11L2	0.990969112	0.000121967
RP11-455F5.3	TCP11L2	0.999252803	8.37E-07
RP11-326C3.2	TCP11L2	0.990745564	0.000128071
AP006621.8	TCP11L2	0.987540233	0.000231902
JHDM1D-AS1	TCP11L2	0.999776784	7.47E-08
RP11-20I23.6	TCP11L2	0.99697111	1.37E-05
RP11-160E2.19	TCP11L2	0.948253969	0.003947199
AC005786.7	TCP11L2	0.990545105	0.00013367
AC011558.5	TBC1D10C	0.878819335	0.021137376
CCDC144NL-AS1	IL32	-0.858520938	0.028608542

AC005944.2	TCP11L2	0.967001105	0.001615424
CTB-191K22.5	TCP11L2	0.975801503	0.000871266
RP11-20I23.8	TCP11L2	0.999814367	5.17E-08
CDC37L1-AS1	TCP11L2	0.992941892	7.45E-05
RP5-1142A6.10	TCP11L2	0.986575641	0.00026911
RP11-556I13.1	TCP11L2	0.999760991	8.57E-08
RP11-498J9.2	TCTEX1D1	0.920427764	0.009245696
RP11-34P13.14	TCTEX1D1	0.943521923	0.004694584
RP11-93O14.2	TCTEX1D1	0.968129371	0.001507419
RP11-78A19.3	TCTEX1D1	0.954838292	0.003013314
RP11-680G24.6	TCTEX1D1	0.979649415	0.000617005
LA16c-359F1.1	TCTEX1D1	0.974607424	0.000958988
Z69720.3	TCTEX1D1	0.93722759	0.00578689
LLNLR-284B4.1	TEAD1	-0.973301091	0.001059732
RP11-77G23.2	TEAD1	0.957905198	0.002620663
CTA-315H11.2	TECPR1	-0.956523868	0.002794172
RP11-66D17.5	TECPR1	0.928575151	0.007470076
RP11-126K1.8	TECPR1	0.960011769	0.002366616
RP3-438O4.4	TECPR1	0.982395734	0.000462137
NUP50-AS1	TECPR1	0.972467869	0.001126592
PSMD5-AS1	TECPR1	0.986836718	0.000258768
TOPORS-AS1	TECPR1	0.976376429	0.000830518
AC011558.5	IL32	0.83696336	0.037704585
AC087294.2	TECPR1	0.993392055	6.54E-05
AP001062.8	TECPR1	0.981523904	0.000508896
RP11-455F5.3	TECPR1	0.99548937	3.05E-05
RP11-326C3.2	TECPR1	0.997268925	1.12E-05
AP006621.8	TECPR1	0.990411015	0.000137482
JHDM1D-AS1	TECPR1	0.996375579	1.97E-05
RP11-20I23.6	TECPR1	0.997728693	7.73E-06
LA16c-359F1.1	CAMP	0.843986349	0.034611683
RP11-160E2.19	TECPR1	0.966078	0.001706536
AC005786.7	TECPR1	0.988219093	0.000207367
AC005944.2	TECPR1	0.964394143	0.001879095
RP11-34P13.14	TNFSF10	0.907356324	0.012476703
RP11-93O14.2	TNFSF10	0.859833023	0.028093257
RP11-485G7.6	TNFSF10	0.81630426	0.047516861
CTB-191K22.5	TECPR1	0.963002147	0.00202794
RP11-78A19.3	TNFSF10	0.873898689	0.022849708
Z69720.3	TNFSF10	0.884431864	0.019262228
AC024028.1	TOB1	0.858835959	0.028484421
RP11-20I23.8	TECPR1	0.997090152	1.27E-05
CTD-2531D15.5	TOB1	-0.821097783	0.045146032
AC011558.5	TOB1	0.889828941	0.017537884
CDC37L1-AS1	TECPR1	0.984991271	0.000336202
RP5-1142A6.10	TECPR1	0.990878636	0.000124419
RP11-556I13.1	TECPR1	0.996377809	1.97E-05
AC024028.1	TEK	0.962286162	0.00210668
RP11-485G7.6	RFX3	0.91615543	0.010250158
RP11-498J9.2	TEK	0.999929933	7.36E-09
RP11-34P13.14	TEK	0.976409134	0.000828229
LA16c-359F1.1	RFX3	0.826919936	0.042342609
RP11-93O14.2	TEK	0.982660414	0.000448385
CCDC144NL-AS1	CD3D	-0.896374311	0.015551044
RP11-485G7.6	TEK	0.967935385	0.001525726
RP11-78A19.3	TEK	0.982947789	0.000433688
Z69720.3	TEK	0.986211487	0.000283874
RP11-473M20.11	TES	0.960074888	0.002359201
CTA-315H11.2	TESC	-0.935485804	0.006108866
RP11-66D17.5	TESC	0.966270501	0.001687332
RP11-126K1.8	TESC	0.986361576	0.000277741
RP3-438O4.4	TESC	0.992320321	8.82E-05
NUP50-AS1	TESC	0.992864581	7.62E-05

PSMD5-AS1	TESC	0.985971015	0.000293838
TOPORS-AS1	TESC	0.976309858	0.000835186
AC087294.2	TESC	0.999445195	4.62E-07
AP001062.8	TESC	0.997961008	6.23E-06
RP11-455F5.3	TESC	0.999177609	1.01E-06
RP11-326C3.2	TESC	0.981976437	0.000484346
AP006621.8	TESC	0.985378801	0.000319106
JHDM1D-AS1	TESC	0.997414707	1.00E-05
RP11-20I23.6	TESC	0.994018065	5.36E-05
RP11-160E2.19	TESC	0.933830944	0.006422661
AC005786.7	TESC	0.991886903	9.85E-05
AC005944.2	TESC	0.976536045	0.000819377
CTB-191K22.5	TESC	0.988957794	0.000182222
AC011558.5	CD3D	0.853037689	0.030809841
CCDC144NL-AS1	FCGR2A	-0.824076037	0.043701504
CTA-315H11.2	FCGR2A	-0.83941406	0.036611184
CTD-2541M15.3	FCGR2A	-0.837880999	0.037293404
PSMD5-AS1	FCGR2A	0.851047073	0.031628054
RP11-326C3.2	FCGR2A	0.850242926	0.031961457
AP006621.8	FCGR2A	0.854917036	0.030046669
RP11-20I23.8	TESC	0.997817062	7.14E-06
AC005944.2	FCGR2A	0.823746599	0.043860213
RP5-1142A6.10	FCGR2A	0.82161042	0.044895832
CDC37L1-AS1	TESC	0.992363056	8.73E-05
CCDC144NL-AS1	UPP1	-0.818716527	0.046316724
CTA-315H11.2	UPP1	-0.867243539	0.025266549
CTD-2541M15.3	UPP1	-0.828729547	0.041488365
PSMD5-AS1	UPP1	0.883494037	0.019569754
TOPORS-AS1	UPP1	0.81436678	0.048491107
AC087294.2	UPP1	0.819099677	0.046127415
RP11-455F5.3	UPP1	0.832051087	0.039941602
RP11-326C3.2	UPP1	0.900029439	0.014491611
AP006621.8	UPP1	0.888967694	0.017807847
JHDM1D-AS1	UPP1	0.828062783	0.041802171
RP11-20I23.6	UPP1	0.863260247	0.026768277
RP5-1142A6.10	TESC	0.983702401	0.000396253
AC005786.7	UPP1	0.835928721	0.038170728
AC005944.2	UPP1	0.858225102	0.028725336
RP11-20I23.8	UPP1	0.836676069	0.037833751
RP5-1142A6.10	UPP1	0.884727592	0.019165738
RP11-556I13.1	UPP1	0.827997976	0.04183273
RP11-556I13.1	TESC	0.997335944	1.06E-05
AC024028.1	TET2	0.974861313	0.000939987
RP11-498J9.2	TET2	0.997237035	1.14E-05
RP11-34P13.14	TET2	0.988790023	0.000187791
RP11-93O14.2	TET2	0.980762632	0.000551555
RP11-485G7.6	TET2	0.945632409	0.004353402
RP11-473M20.11	TET2	0.929298908	0.007321262
RP11-78A19.3	TET2	0.981403664	0.00051552
Z69720.3	TET2	0.985994297	0.000292866
CTA-315H11.2	TF	-0.950790209	0.003572822
RP11-66D17.5	TF	0.945868995	0.004315942
RP11-126K1.8	TF	0.972057328	0.001160281
RP3-438O4.4	TF	0.991419393	0.000110124
NUP50-AS1	TF	0.981611592	0.000504091
PSMD5-AS1	TF	0.984495319	0.000358729
TOPORS-AS1	TF	0.977749501	0.000737119
AC087294.2	TF	0.998335379	4.15E-06
AP001062.8	TF	0.99022723	0.000142794
RP11-455F5.3	TF	0.99894435	1.67E-06
RP11-326C3.2	TF	0.990827907	0.000125805
AP006621.8	TF	0.986861007	0.000257816
JHDM1D-AS1	TF	0.999827294	4.47E-08

RP11-473M20.11	LAIR1	0.872228633	0.023445316
LLNLR-284B4.1	LAIR1	0.880074289	0.020710868
CTD-2541M15.3	LAIR1	-0.838183842	0.037158168
RP11-160E2.19	LAIR1	0.845025244	0.034164735
RP11-20I23.6	TF	0.996976782	1.37E-05
CCDC144NL-AS1	RNF149	-0.877721128	0.021514019
RP11-160E2.19	TF	0.948469022	0.003914744
CTD-2139B15.2	RNF149	-0.812974601	0.049196816
RP3-438O4.4	RNF149	0.816786258	0.04727592
PSMD5-AS1	RNF149	0.892145325	0.016821629
TOPORS-AS1	RNF149	0.832133315	0.039903659
AC087294.2	RNF149	0.849823306	0.032136089
RP11-455F5.3	RNF149	0.862029863	0.027240455
AC005786.7	TF	0.990466513	0.000135898
AP006621.8	RNF149	0.904181705	0.013331858
JHDM1D-AS1	RNF149	0.866662915	0.025482882
RP11-20I23.6	RNF149	0.887535098	0.018261283
AC005944.2	TF	0.96572747	0.001741781
AC005786.7	RNF149	0.851597009	0.031400999
AC005944.2	RNF149	0.843237773	0.034935425
RP11-20I23.8	RNF149	0.8711551	0.023832035
CDC37L1-AS1	RNF149	0.832788711	0.039601841
RP5-1142A6.10	RNF149	0.893084608	0.016535282
RP11-556I13.1	RNF149	0.866800891	0.025431395
CTB-191K22.5	TF	0.974718188	0.000950675
CCDC144NL-AS1	MICAL1	-0.888039053	0.018101151
RP11-20I23.8	TF	0.999782397	7.10E-08
RP11-66D17.5	MICAL1	0.814286114	0.048531868
RP11-126K1.8	MICAL1	0.865942924	0.025752359
RP3-438O4.4	MICAL1	0.890589924	0.017300997
NUP50-AS1	MICAL1	0.886688547	0.018531798
CDC37L1-AS1	TF	0.993370815	6.58E-05
TOPORS-AS1	MICAL1	0.90765655	0.012397248
RP5-1142A6.10	TF	0.986560151	0.000269731
AP001062.8	MICAL1	0.896266579	0.015582816
RP11-556I13.1	TF	0.999821018	4.80E-08
RP11-66D17.5	TFDP1	0.973479201	0.001045702
RP11-126K1.8	TFDP1	0.97416946	0.000992208
RP3-438O4.4	TFDP1	0.942710528	0.004829111
NUP50-AS1	TFDP1	0.963404548	0.001984336
AC087294.2	TFDP1	0.938064715	0.005635178
AP001062.8	TFDP1	0.961210914	0.002227709
RP11-455F5.3	TFDP1	0.932054492	0.00676805
CTB-191K22.5	MICAL1	0.872859295	0.023219539
JHDM1D-AS1	TFDP1	0.924544966	0.008325393
CDC37L1-AS1	MICAL1	0.899234124	0.014719066
AC005786.7	TFDP1	0.923500273	0.008554466
CTB-191K22.5	TFDP1	0.965287143	0.001786559
RP11-20I23.8	TFDP1	0.922724599	0.008726507
CCDC144NL-AS1	PIK3CD	-0.908301172	0.01222748
CDC37L1-AS1	TFDP1	0.931071065	0.00696305
RP11-66D17.5	PIK3CD	0.817301074	0.047019202
RP11-126K1.8	PIK3CD	0.876793251	0.021834721
RP3-438O4.4	PIK3CD	0.894617175	0.016073143
NUP50-AS1	PIK3CD	0.890817783	0.017230368
LL21NC02-21A1.1	TFDP1	0.923552887	0.008542857
TOPORS-AS1	PIK3CD	0.904486638	0.013248529
RP11-556I13.1	TFDP1	0.924292396	0.008380498
AP001062.8	PIK3CD	0.902616301	0.013763604
CTA-315H11.2	TFEB	-0.964493354	0.001868701
RP11-126K1.8	TFEB	0.931237405	0.006929877
RP3-438O4.4	TFEB	0.956582994	0.002786633
NUP50-AS1	TFEB	0.94800697	0.003984637

PSMD5-AS1	TFEB	0.984989849	0.000336266
TOPORS-AS1	TFEB	0.958254297	0.00257768
AC087294.2	TFEB	0.975162319	0.000917704
AP001062.8	TFEB	0.957316018	0.002694
CTB-191K22.5	PIK3CD	0.878358449	0.021295056
RP11-455F5.3	TFEB	0.979929387	0.000600202
CDC37L1-AS1	PIK3CD	0.903660255	0.013474939
RP11-326C3.2	TFEB	0.998528448	3.25E-06
AP006621.8	TFEB	0.989500197	0.00016479
JHDM1D-AS1	TFEB	0.980596928	0.000561066
CCDC144NL-AS1	C20orf111	-0.873491482	0.022994261
RP11-20I23.6	TFEB	0.989245832	0.000172856
RP11-66D17.5	C20orf111	0.908970489	0.012052406
RP11-160E2.19	TFEB	0.989804261	0.0001554
AC005786.7	TFEB	0.974050552	0.001001324
AC005944.2	TFEB	0.96010834	0.002355276
CTB-191K22.5	TFEB	0.937531392	0.005731604
RP11-20I23.8	TFEB	0.983013379	0.000430367
CDC37L1-AS1	TFEB	0.962468143	0.002086526
RP5-1142A6.10	TFEB	0.987694211	0.000226217
RP11-556I13.1	TFEB	0.980605487	0.000560573
RP11-485G7.6	TFEC	0.926164178	0.007976327
CTA-315H11.2	TFF3	-0.959434127	0.002435008
RP11-66D17.5	TFF3	0.931837855	0.006810774
RP11-126K1.8	TFF3	0.962902234	0.002038839
RP3-438O4.4	TFF3	0.983400111	0.000411047
NUP50-AS1	TFF3	0.974198535	0.000989985
PSMD5-AS1	TFF3	0.98860059	0.000194179
TOPORS-AS1	TFF3	0.974315604	0.00098106
AC087294.2	TFF3	0.994436417	4.63E-05
AP001062.8	TFF3	0.983235995	0.000419192
RP11-455F5.3	TFF3	0.996526436	1.81E-05
RP11-326C3.2	TFF3	0.997038501	1.31E-05
AC011558.5	C20orf111	0.875921198	0.022138193
CCDC144NL-AS1	PIK3IP1	-0.905625569	0.012939525
AP006621.8	TFF3	0.991704378	0.000102941
RP11-66D17.5	PIK3IP1	0.887576734	0.018248028
JHDM1D-AS1	TFF3	0.997205445	1.17E-05
RP11-20I23.6	TFF3	0.997925143	6.45E-06
RP11-160E2.19	TFF3	0.965316988	0.001783507
AC005786.7	TFF3	0.98831738	0.000203928
AC005944.2	TFF3	0.967417619	0.001575122
CTB-191K22.5	TFF3	0.966155252	0.001698816
RP11-20I23.8	TFF3	0.997964618	6.21E-06
CDC37L1-AS1	TFF3	0.986612388	0.000267643
RP5-1142A6.10	TFF3	0.990115629	0.000146068
RP11-556I13.1	TFF3	0.997200038	1.17E-05
AC011558.5	TFRC	-0.961384814	0.002207909
AC024028.1	TGFA	0.939114898	0.005447643
RP11-473M20.11	TGFA	0.980988419	0.000538725
RP11-485G7.6	TGFB1	0.925890955	0.008034717
AC024028.1	TGFBR3	0.964097617	0.001910333
RP11-498J9.2	TGFBR3	0.999998091	5.47E-12
RP11-34P13.14	TGFBR3	0.97851775	0.000687274
RP11-93O14.2	TGFBR3	0.9832121	0.000420385
RP11-485G7.6	TGFBR3	0.965456777	0.001769242
RP11-78A19.3	TGFBR3	0.983377103	0.000412184
AC011558.5	PIK3IP1	0.906776309	0.012630897
CCDC144NL-AS1	SLC25A39	-0.861426566	0.02747341
Z69720.3	TGFBR3	0.986496102	0.000272302
RP11-66D17.5	TGM2	0.955667548	0.002904485
CTB-191K22.5	TGM2	0.920282955	0.009278918
LL21NC02-21A1.1	TGM2	0.967016981	0.001613879

AC024028.1	THBS1	0.963596713	0.001963678
RP11-498J9.2	THBS1	0.999350564	6.33E-07
RP11-34P13.14	THBS1	0.980666899	0.00055704
RP11-93O14.2	THBS1	0.986929144	0.000255154
RP11-485G7.6	THBS1	0.964933662	0.001822912
RP11-78A19.3	THBS1	0.988422157	0.000200294
Z69720.3	THBS1	0.983926069	0.00038548
CTA-315H11.2	THBS4	-0.954763163	0.003023271
RP11-126K1.8	THBS4	0.949267529	0.003795388
RP3-438O4.4	THBS4	0.933602489	0.006466583
NUP50-AS1	THBS4	0.951601957	0.003456873
PSMD5-AS1	THBS4	0.994943756	3.83E-05
TOPORS-AS1	THBS4	0.930777414	0.0070218
AC087294.2	THBS4	0.964474762	0.001870647
AP001062.8	THBS4	0.957057674	0.002726471
RP11-455F5.3	THBS4	0.972011877	0.001164041
LL21NC02-21A1.1	SLC25A39	0.830207281	0.040796826
RP11-326C3.2	THBS4	0.985496819	0.000313988
AP006621.8	THBS4	0.99489385	3.90E-05
CCDC144NL-AS1	SELL	-0.90484384	0.013151237
JHDM1D-AS1	THBS4	0.964575435	0.001860123
RP11-66D17.5	SELL	0.893162394	0.016511674
RP11-20I23.6	THBS4	0.975208104	0.000914338
RP11-160E2.19	THBS4	0.98056755	0.000562761
AC005786.7	THBS4	0.959633764	0.002411263
AC005944.2	THBS4	0.980059631	0.000592463
CTB-191K22.5	THBS4	0.946819746	0.004167008
RP11-20I23.8	THBS4	0.96935384	0.001394389
CDC37L1-AS1	THBS4	0.937664271	0.005707504
RP5-1142A6.10	THBS4	0.973907269	0.001012364
RP11-556I13.1	THBS4	0.964369075	0.001881726
CTA-315H11.2	THEM5	-0.945830693	0.004321996
RP11-66D17.5	THEM5	0.950045906	0.003680789
RP11-126K1.8	THEM5	0.972652995	0.001111562
RP3-438O4.4	THEM5	0.993612024	6.11E-05
NUP50-AS1	THEM5	0.983449912	0.000408592
PSMD5-AS1	THEM5	0.982352178	0.00046442
TOPORS-AS1	THEM5	0.980154451	0.000586861
AC087294.2	THEM5	0.998887845	1.85E-06
AP001062.8	THEM5	0.991399886	0.000110625
RP11-455F5.3	THEM5	0.99882156	2.08E-06
RP11-326C3.2	THEM5	0.988679931	0.000191491
AC011558.5	SELL	0.897594911	0.015193253
CCDC144NL-AS1	CCNDBP1	-0.860894943	0.027679469
AP006621.8	THEM5	0.98440587	0.000362869
JHDM1D-AS1	THEM5	0.999997857	6.89E-12
RP11-20I23.6	THEM5	0.996840038	1.50E-05
RP11-160E2.19	THEM5	0.944214975	0.004581153
AC005786.7	THEM5	0.991837344	9.97E-05
AC005944.2	THEM5	0.965265497	0.001788775
CTB-191K22.5	THEM5	0.976648937	0.000811542
RP11-20I23.8	THEM5	0.999785213	6.92E-08
CDC37L1-AS1	THEM5	0.995184149	3.47E-05
RP5-1142A6.10	THEM5	0.986596286	0.000268285
RP11-556I13.1	THEM5	0.999998945	1.67E-12
RP11-160E2.19	THG1L	-0.931827957	0.006812729
AC011558.5	THG1L	-0.941249318	0.005076071
RP11-498J9.2	THNSL2	0.981614746	0.000503919
RP11-34P13.14	THNSL2	0.975790448	0.000872059
RP11-93O14.2	THNSL2	0.983384047	0.000411841
RP11-485G7.6	THNSL2	0.954076727	0.003114996
RP11-78A19.3	THNSL2	0.970813583	0.001265339
Z69720.3	THNSL2	0.99030454	0.000140547

RP11-770G2.2	THOC4	0.920225033	0.009292222
LL21NC02-21A1.1	CCNDBP1	0.844861246	0.034235107
RP11-118G23.2	THRB	0.982438909	0.00045988
LL21NC02-21A1.1	THRB	-0.947138265	0.004117687
CCDC144NL-AS1	MBP	-0.887393632	0.018306356
CTA-315H11.2	MBP	-0.907508594	0.012436374
CTD-2139B15.2	MBP	-0.849860491	0.032120596
PSMD5-AS1	MBP	0.839680599	0.036493176
RP11-326C3.2	MBP	0.874358726	0.022686925
AP006621.8	MBP	0.854115799	0.030370932
RP11-20I23.6	MBP	0.816375208	0.04748136
AC024028.1	TIAM1	0.963465829	0.001977737
RP5-1142A6.10	MBP	0.819212253	0.046071862
RP11-473M20.11	TIAM1	0.993444729	6.43E-05
AC024028.1	PITPNM1	0.883162343	0.01967908
AC024028.1	TIE1	0.962401744	0.002093868
AC011558.5	PITPNM1	0.901096674	0.014189072
CCDC144NL-AS1	UBE2H	-0.883732784	0.019491244
RP11-498J9.2	TIE1	0.999804757	5.72E-08
RP11-34P13.14	TIE1	0.980208056	0.000583705
RP11-93O14.2	TIE1	0.9841971	0.000372624
RP11-485G7.6	TIE1	0.964145385	0.001905284
RP11-78A19.3	TIE1	0.982990578	0.00043152
Z69720.3	TIE1	0.988170636	0.000209073
RP11-498J9.2	TIGD3	0.956493015	0.00279811
RP11-93O14.2	TIGD3	0.967805319	0.001538061
RP11-485G7.6	TIGD3	0.995051775	3.67E-05
RP11-78A19.3	TIGD3	0.966404058	0.001674071
LA16c-359F1.1	TIGD3	0.918359016	0.009725797
Z69720.3	TIGD3	0.930167856	0.007144523
AC011558.5	TIMELESS	-0.94434351	0.004560265
AC005943.6	TIMM23B	0.937829805	0.005677552
RP11-770G2.2	TIMM50	0.945163921	0.004428047
RP11-91K8.5	TIMM8AP1	0.923046427	0.008654925
AC024028.1	TIPARP	0.952902385	0.003275042
RP11-498J9.2	TIPARP	0.997681166	8.06E-06
RP11-34P13.14	TIPARP	0.98644441	0.000274386
RP11-93O14.2	TIPARP	0.989544446	0.000163406
RP11-485G7.6	TIPARP	0.96200442	0.00213807
RP11-78A19.3	TIPARP	0.986647762	0.000266233
AC011558.5	UBE2H	0.821635449	0.044883633
CCDC144NL-AS1	ANXA6	-0.885161927	0.019024445
LA16c-359F1.1	TIPARP	0.91737698	0.009957829
RP11-66D17.5	ANXA6	0.882747137	0.019816341
Z69720.3	TIPARP	0.991939398	9.72E-05
RP3-337H4.8	TK1	0.927211485	0.007754429
PSMD5-AS1	TLE1	-0.919579295	0.009441175
RP11-326C3.2	TLE1	-0.922415495	0.008795529
AP006621.8	TLE1	-0.921281898	0.009050919
RP11-160E2.19	TLE1	-0.97053367	0.001289605
AC011558.5	TLE1	-0.9660964	0.001704696
CTA-315H11.2	TLE2	-0.95440302	0.003071227
RP11-66D17.5	TLE2	0.939670106	0.005349753
RP11-126K1.8	TLE2	0.974733975	0.000949493
RP3-438O4.4	TLE2	0.976887221	0.000795127
NUP50-AS1	TLE2	0.980256956	0.000580834
PSMD5-AS1	TLE2	0.995895187	2.52E-05
TOPORS-AS1	TLE2	0.967997558	0.001519847
AC087294.2	TLE2	0.9933243	6.67E-05
AP001062.8	TLE2	0.987117675	0.000247863
RP11-455F5.3	TLE2	0.996497693	1.84E-05
RP11-326C3.2	TLE2	0.994389095	4.71E-05
AP006621.8	TLE2	0.996953758	1.39E-05

JHDM1D-AS1	TLE2	0.993400583	6.52E-05
RP11-20I23.6	TLE2	0.995419442	3.14E-05
CCDC144NL-AS1	SERPINA1	-0.816137469	0.04760037
CTA-315H11.2	SERPINA1	-0.906852217	0.012610666
RP11-66D17.5	SERPINA1	0.903624396	0.013484805
RP11-126K1.8	SERPINA1	0.914592761	0.010630098
RP11-160E2.19	TLE2	0.963679617	0.001954799
AC005786.7	TLE2	0.986381908	0.000276916
AC005944.2	TLE2	0.979384256	0.000633132
CTB-191K22.5	TLE2	0.973935501	0.001010184
RP11-20I23.8	TLE2	0.995222801	3.42E-05
CDC37L1-AS1	TLE2	0.978490502	0.000689012
RP5-1142A6.10	TLE2	0.98849571	0.000197762
RP11-556I13.1	TLE2	0.993296345	6.73E-05
RP11-473M20.11	TLE4	0.934750255	0.006247392
AC024028.1	TLE6	0.996637363	1.69E-05
RP11-498J9.2	TLE6	0.957199351	0.00270864
RP11-34P13.14	TLE6	0.932880346	0.006606383
RP11-473M20.11	TLE6	0.991130935	0.000117642
Z69720.3	TLE6	0.923985225	0.008447753
CTA-315H11.2	TLR1	-0.965452939	0.001769633
RP11-126K1.8	TLR1	0.942034788	0.004942568
RP3-438O4.4	TLR1	0.959102401	0.002474718
NUP50-AS1	TLR1	0.955153039	0.002971776
PSMD5-AS1	TLR1	0.990412481	0.00013744
AC011558.5	SERPINA1	0.913311459	0.010946627
CCDC144NL-AS1	CDKN2D	-0.868039658	0.02497135
TOPORS-AS1	TLR1	0.958278544	0.002574708
AC087294.2	TLR1	0.978993968	0.000657246
AP001062.8	TLR1	0.963903517	0.001930918
RP11-455F5.3	TLR1	0.98396053	0.000383834
RP11-326C3.2	TLR1	0.999152721	1.08E-06
AP006621.8	TLR1	0.99398086	5.42E-05
JHDM1D-AS1	TLR1	0.983140453	0.00042397
RP11-20I23.6	TLR1	0.990924856	0.000123164
RP11-160E2.19	TLR1	0.987676865	0.000226854
AC005786.7	TLR1	0.976242589	0.000839917
AC005944.2	TLR1	0.967429831	0.001573948
CTB-191K22.5	TLR1	0.945974894	0.004299226
RP11-20I23.8	TLR1	0.985736641	0.000303714
CDC37L1-AS1	TLR1	0.964277624	0.00189134
RP5-1142A6.10	TLR1	0.988368817	0.00020214
RP11-556I13.1	TLR1	0.983107326	0.000425633
CTA-315H11.2	TLR10	-0.953432262	0.003202339
RP11-66D17.5	TLR10	0.941862432	0.004971713
RP11-126K1.8	TLR10	0.966997193	0.001615805
RP3-438O4.4	TLR10	0.990970092	0.000121941
LL21NC02-21A1.1	CDKN2D	0.817109988	0.047114413
NUP50-AS1	TLR10	0.978349377	0.00069805
PSMD5-AS1	TLR10	0.982926198	0.000434783
CCDC144NL-AS1	TRPV2	-0.852744085	0.030929886
TOPORS-AS1	TLR10	0.977045665	0.000784305
RP3-438O4.4	TRPV2	0.858160078	0.028751037
NUP50-AS1	TRPV2	0.823916465	0.043778346
PSMD5-AS1	TRPV2	0.904081388	0.013359326
TOPORS-AS1	TRPV2	0.861777762	0.027337686
AC087294.2	TRPV2	0.879303303	0.020972403
AP001062.8	TRPV2	0.840611958	0.036082231
RP11-455F5.3	TRPV2	0.887431784	0.018294195
AC087294.2	TLR10	0.997140293	1.23E-05
AP006621.8	TRPV2	0.914583937	0.010632262
JHDM1D-AS1	TRPV2	0.895647438	0.015766015
RP11-20I23.6	TRPV2	0.9110662	0.011512133

AP001062.8	TLR10	0.987409586	0.00023678
AC005786.7	TRPV2	0.881265173	0.020309979
AC005944.2	TRPV2	0.863384997	0.02672062
CTB-191K22.5	TRPV2	0.812057868	0.049664099
RP11-20I23.8	TRPV2	0.898573341	0.014909344
CDC37L1-AS1	TRPV2	0.875889405	0.022149295
RP5-1142A6.10	TRPV2	0.912382893	0.011178829
RP11-556I13.1	TRPV2	0.895867823	0.015700686
RP11-455F5.3	TLR10	0.997665763	8.17E-06
RP11-326C3.2	TLR10	0.991388751	0.000110911
AP006621.8	TLR10	0.985680891	0.000306087
JHDM1D-AS1	TLR10	0.999458121	4.40E-07
RP11-20I23.6	TLR10	0.996869995	1.47E-05
RP11-160E2.19	TLR10	0.950907451	0.003555959
AC005786.7	TLR10	0.989775924	0.000156263
AC005944.2	TLR10	0.963495901	0.001974502
RP11-680G24.6	NFIL3	0.84243957	0.035282192
LA16c-359F1.1	NFIL3	0.882339294	0.019951613
CTB-191K22.5	TLR10	0.971465492	0.001209711
CCDC144NL-AS1	MAP2K3	-0.857903807	0.028852437
RP11-20I23.8	TLR10	0.999337425	6.58E-07
CDC37L1-AS1	TLR10	0.993900625	5.57E-05
RP5-1142A6.10	TLR10	0.986541445	0.00027048
RP11-556I13.1	TLR10	0.999476202	4.11E-07
AC024028.1	TM4SF1	0.953622902	0.003176378
RP11-498J9.2	TM4SF1	0.997675473	8.10E-06
RP11-34P13.14	TM4SF1	0.970681943	0.001276723
RP11-93O14.2	TM4SF1	0.979523199	0.000624656
RP11-485G7.6	TM4SF1	0.974484435	0.00096826
RP11-78A19.3	TM4SF1	0.982059187	0.000479922
Z69720.3	TM4SF1	0.985691493	0.000305635
AC024028.1	TMC4	0.94230394	0.004897223
RP11-498J9.2	TMC4	0.960249226	0.00233878
RP11-485G7.6	TMC4	0.92695323	0.007808863
Z69720.3	TMC4	0.932428427	0.006694613
CTA-315H11.2	TMC5	-0.924181799	0.008404683
RP11-66D17.5	TMC5	0.972948119	0.001087808
RP11-126K1.8	TMC5	0.990653831	0.000130618
RP3-438O4.4	TMC5	0.993261757	6.80E-05
NUP50-AS1	TMC5	0.994082727	5.24E-05
LL21NC02-21A1.1	MAP2K3	0.847570627	0.033081244
PSMD5-AS1	TMC5	0.977939853	0.000724607
TOPORS-AS1	TMC5	0.97253345	0.001121257
CCDC144NL-AS1	DEF6	-0.896969931	0.015375951
AC087294.2	TMC5	0.997470142	9.59E-06
RP11-66D17.5	DEF6	0.884141271	0.019357268
AP001062.8	TMC5	0.999075164	1.28E-06
RP11-455F5.3	TMC5	0.996186887	2.18E-05
RP11-326C3.2	TMC5	0.971308546	0.00122299
AP006621.8	TMC5	0.976715909	0.000806912
JHDM1D-AS1	TMC5	0.994231706	4.98E-05
RP11-20I23.6	TMC5	0.987385061	0.000237701
AC005786.7	TMC5	0.987494404	0.000233607
AC005944.2	TMC5	0.970046034	0.001332422
CTB-191K22.5	TMC5	0.991340764	0.000112149
RP11-20I23.8	TMC5	0.99395329	5.47E-05
CDC37L1-AS1	TMC5	0.992092909	9.35E-05
RP5-1142A6.10	TMC5	0.97433324	0.000979719
RP11-556I13.1	TMC5	0.994141861	5.14E-05
CTA-315H11.2	TMCC2	-0.947420342	0.004074249
RP11-66D17.5	TMCC2	0.951326074	0.003496069
RP11-126K1.8	TMCC2	0.975170083	0.000917133
RP3-438O4.4	TMCC2	0.992409041	8.62E-05

NUP50-AS1	TMCC2	0.984762094	0.000346522
PSMD5-AS1	TMCC2	0.985246787	0.00032488
TOPORS-AS1	TMCC2	0.978565231	0.00068425
AC011558.5	DEF6	0.910130886	0.011751774
CCDC144NL-AS1	PDLIM7	-0.887225983	0.01835984
AC087294.2	TMCC2	0.999148579	1.09E-06
AP001062.8	TMCC2	0.992388193	8.67E-05
RP11-455F5.3	TMCC2	0.999450844	4.52E-07
RP11-326C3.2	TMCC2	0.989452876	0.000166276
AP006621.8	TMCC2	0.986888064	0.000256757
JHDM1D-AS1	TMCC2	0.99986645	2.68E-08
RP11-20I23.6	TMCC2	0.997145613	1.22E-05
RP11-160E2.19	TMCC2	0.946193532	0.004264815
AC005786.7	TMCC2	0.991836599	9.97E-05
AC005944.2	TMCC2	0.969044744	0.001422511
CTB-191K22.5	TMCC2	0.978555336	0.000684879
RP11-20I23.8	TMCC2	0.999947146	4.19E-09
CDC37L1-AS1	TMCC2	0.994025068	5.34E-05
RP5-1142A6.10	TMCC2	0.987048006	0.000250545
RP11-556I13.1	TMCC2	0.999847639	3.48E-08
RP3-339A18.6	TMED8	0.949200159	0.003805388
AC024028.1	TMEM108	0.962080532	0.002129567
RP11-498J9.2	TMEM108	0.999658311	1.75E-07
RP11-34P13.14	TMEM108	0.975192851	0.000915459
RP11-93O14.2	TMEM108	0.983083165	0.000426848
RP11-485G7.6	TMEM108	0.967573394	0.001560179
RP11-78A19.3	TMEM108	0.982539289	0.000454653
AC011558.5	PDLIM7	0.86185372	0.027308373
Z69720.3	TMEM108	0.984547143	0.000356341
CTA-315H11.2	TMEM111	-0.941054078	0.005109525
RP11-66D17.5	TMEM111	0.959069844	0.002478632
RP11-126K1.8	TMEM111	0.981330204	0.000519588
RP3-438O4.4	TMEM111	0.993410116	6.50E-05
NUP50-AS1	TMEM111	0.98906078	0.000178845
PSMD5-AS1	TMEM111	0.984808078	0.000344439
TOPORS-AS1	TMEM111	0.978189857	0.000708336
AC087294.2	TMEM111	0.999812629	5.27E-08
AP001062.8	TMEM111	0.995713824	2.75E-05
RP11-455F5.3	TMEM111	0.999722422	1.16E-07
RP11-326C3.2	TMEM111	0.985468545	0.000315211
AP006621.8	TMEM111	0.985523688	0.000312829
JHDM1D-AS1	TMEM111	0.999212071	9.31E-07
RP11-20I23.6	TMEM111	0.995577081	2.93E-05
RP11-680G24.6	STX11	0.834317346	0.038902057
LA16c-359F1.1	STX11	0.886442181	0.018610882
RP11-160E2.19	TMEM111	0.938300647	0.005592776
CTA-315H11.2	SLC2A1	-0.840348529	0.036198243
AC005786.7	TMEM111	0.99193745	9.72E-05
AC005944.2	TMEM111	0.971262539	0.001226896
CTB-191K22.5	TMEM111	0.983747574	0.000394066
RP11-20I23.8	TMEM111	0.999275664	7.87E-07
CDC37L1-AS1	TMEM111	0.994013028	5.37E-05
TOPORS-AS1	SLC2A1	0.906665292	0.012660515
RP5-1142A6.10	TMEM111	0.984925055	0.000339168
RP11-556I13.1	TMEM111	0.999166883	1.04E-06
CTA-315H11.2	TMEM121	-0.958208421	0.002583309
RP11-326C3.2	SLC2A1	0.895321442	0.015862888
RP3-438O4.4	TMEM121	0.923712734	0.008507634
NUP50-AS1	TMEM121	0.928853074	0.007412759
PSMD5-AS1	TMEM121	0.983207223	0.000420628
RP11-160E2.19	SLC2A1	0.824098731	0.043690581
TOPORS-AS1	TMEM121	0.930216941	0.007134602
AC087294.2	TMEM121	0.95304473	0.003255433

AP001062.8	TMEM121	0.93616523	0.005982257
RP11-455F5.3	TMEM121	0.960805659	0.002274189
RP11-326C3.2	TMEM121	0.988467589	0.000198728
AP006621.8	TMEM121	0.986226247	0.000283268
RP5-1142A6.10	SLC2A1	0.910073289	0.01176661
JHDM1D-AS1	TMEM121	0.957486992	0.002672616
CCDC144NL-AS1	UBE2V1	-0.897178564	0.015314845
RP11-20I23.6	TMEM121	0.972399607	0.00113216
RP11-160E2.19	TMEM121	0.996847847	1.49E-05
AC005786.7	TMEM121	0.953687666	0.003167582
AC005944.2	TMEM121	0.961595572	0.002184029
CTB-191K22.5	TMEM121	0.919812591	0.009387227
RP11-20I23.8	TMEM121	0.962173393	0.002119216
CDC37L1-AS1	TMEM121	0.93048501	0.007080541
RP5-1142A6.10	TMEM121	0.975239136	0.00091206
RP11-556I13.1	TMEM121	0.957399319	0.002683571
AC011558.5	TMEM121	0.929188182	0.007343934
AC024028.1	TMEM123	0.997144921	1.22E-05
RP11-498J9.2	TMEM123	0.958943133	0.002493895
RP11-34P13.14	TMEM123	0.96231733	0.002103221
RP11-93O14.2	TMEM123	0.923508673	0.008552612
RP11-473M20.11	TMEM123	0.983543316	0.000404005
RP11-78A19.3	TMEM123	0.930433862	0.007090841
Z69720.3	TMEM123	0.935175024	0.00616721
RP5-1033H22.2	TMEM144	0.984903277	0.000340146
RMRP	UBE2V1	0.860186592	0.027955162
RP11-21J18.1	TMEM144	0.943904348	0.004631825
RP11-298J23.8	TMEM144	0.971568188	0.00120106
LL21NC02-21A1.1	UBE2V1	0.812461068	0.049458324
RP11-165D6.1	TMEM144	0.988980803	0.000181465
RP3-337H4.8	TMEM14C	0.958729199	0.002519771
CCDC144NL-AS1	DNAJB2	-0.868805859	0.024688804
CTD-2139B15.2	TMEM14C	0.924745522	0.008281763
RP11-91K8.5	TMEM155	0.927958364	0.007598048
CTA-315H11.2	TMEM158	-0.947672726	0.004035576
RP11-66D17.5	TMEM158	0.94824937	0.003947894
RP11-126K1.8	TMEM158	0.971873031	0.001175564
RP3-438O4.4	TMEM158	0.992743012	7.88E-05
NUP50-AS1	TMEM158	0.982661589	0.000448325
PSMD5-AS1	TMEM158	0.98329145	0.000416431
TOPORS-AS1	TMEM158	0.979682251	0.000615023
AC087294.2	TMEM158	0.998658191	2.70E-06
AP001062.8	TMEM158	0.990762221	0.000127611
RP11-455F5.3	TMEM158	0.998836612	2.03E-06
RP11-326C3.2	TMEM158	0.9898441	0.00015419
AP006621.8	TMEM158	0.985468697	0.000315204
JHDM1D-AS1	TMEM158	0.999957489	2.71E-09
RP11-20I23.6	TMEM158	0.99718717	1.19E-05
RP11-160E2.19	TMEM158	0.946721699	0.004182249
AC005786.7	TMEM158	0.991648887	0.00010432
AC005944.2	TMEM158	0.965701009	0.001744456
CTB-191K22.5	TMEM158	0.975734506	0.000876077
LL21NC02-21A1.1	DNAJB2	0.819778872	0.045792722
RP11-20I23.8	TMEM158	0.999846094	3.55E-08
CDC37L1-AS1	TMEM158	0.994503185	4.52E-05
CCDC144NL-AS1	STOM	-0.854818926	0.030086286
CTA-315H11.2	STOM	-0.890076322	0.017460707
RP5-1142A6.10	TMEM158	0.987161696	0.000246175
RP11-556I13.1	TMEM158	0.999957763	2.68E-09
AC005944.2	TMEM161B	-0.92417698	0.008405737
AC024028.1	TMEM163	0.960024061	0.002365171
RP11-498J9.2	TMEM163	0.999685568	1.48E-07
RP11-34P13.14	TMEM163	0.976860224	0.000796979

RP11-93O14.2	TMEM163	0.981771955	0.000495364
RP11-485G7.6	TMEM163	0.967687771	0.001549252
RP11-78A19.3	TMEM163	0.981020669	0.000536904
Z69720.3	TMEM163	0.988777461	0.000188211
RP11-498J9.2	TMEM164	0.944947908	0.004462675
RP11-34P13.14	TMEM164	0.982819238	0.000440232
RP11-93O14.2	TMEM164	0.960526087	0.002306531
RP11-160E2.19	STOM	0.84187082	0.035530259
RP11-78A19.3	TMEM164	0.944917175	0.004467613
AC005944.2	STOM	0.91478188	0.01058376
RP11-680G24.6	TMEM164	0.948325692	0.00393636
RMRP	STOM	0.9157901	0.010338382
LA16c-359F1.1	TMEM164	0.92210641	0.008864811
Z69720.3	TMEM164	0.973968045	0.001007674
LL21NC02-21A1.1	STOM	0.842230296	0.035373375
RP3-337H4.8	TMEM173	-0.935418544	0.00612147
RP11-66D17.5	TMEM175	0.98604888	0.000290593
CTA-315H11.2	UQCR11	-0.900367079	0.014395564
RP11-126K1.8	TMEM175	0.997157465	1.21E-05
RP3-438O4.4	TMEM175	0.964599778	0.001857582
NUP50-AS1	TMEM175	0.990826171	0.000125853
PSMD5-AS1	TMEM175	0.963315622	0.001993931
TOPORS-AS1	TMEM175	0.938033121	0.005640868
AC087294.2	TMEM175	0.973562805	0.001039149
AP001062.8	TMEM175	0.988875626	0.000184939
RP11-455F5.3	TMEM175	0.971990792	0.001165787
RP11-326C3.2	TMEM175	0.93220437	0.006738568
AP006621.8	TMEM175	0.955757567	0.002892789
JHDM1D-AS1	TMEM175	0.963170719	0.002009616
RP11-20I23.6	TMEM175	0.956479121	0.002799885
AC005786.7	TMEM175	0.96294128	0.002034576
RP11-160E2.19	UQCR11	0.911978991	0.011280567
AC005944.2	TMEM175	0.974208009	0.000989261
CTB-191K22.5	TMEM175	0.995455318	3.09E-05
RP11-20I23.8	TMEM175	0.964526064	0.00186528
CDC37L1-AS1	TMEM175	0.960477464	0.002312179
LL21NC02-21A1.1	TMEM175	0.925567937	0.008104016
LL21NC02-21A1.1	UQCR11	0.895192611	0.01590125
RP5-1142A6.10	TMEM175	0.943848307	0.004640996
RP11-556I13.1	TMEM175	0.962895713	0.002039551
CCDC144NL-AS1	EVL	-0.899437615	0.014660706
RP11-160E2.19	TMEM191A	0.96821174	0.001499679
RP11-66D17.5	EVL	0.890961392	0.017185924
AC011558.5	TMEM191A	0.992712187	7.95E-05
AC024028.1	TMEM191C	0.934961887	0.00620738
RP11-498J9.2	TMEM191C	0.990006522	0.000149305
RP11-34P13.14	TMEM191C	0.945595023	0.004359336
RP11-93O14.2	TMEM191C	0.965667889	0.001747807
RP11-485G7.6	TMEM191C	0.981067691	0.000534255
RP11-78A19.3	TMEM191C	0.963885576	0.001932826
Z69720.3	TMEM191C	0.976695233	0.00080834
LLNLR-284B4.1	TMEM194A	-0.949575556	0.003749832
RP11-77G23.2	TMEM194A	0.946701228	0.004185434
MIR210HG	TMEM233	0.968292881	0.001492074
RP11-326C3.2	TMEM25	0.919822008	0.009385053
RP11-160E2.19	TMEM25	0.961212877	0.002227485
AC011558.5	TMEM25	0.969081255	0.001419175
RP4-784A16.3	TMEM33	0.929986491	0.007181238
AC011558.5	TMEM40	0.956314249	0.002820981
BX322559.3	TMEM45A	-0.923617543	0.008528601
LL21NC02-21A1.1	TMEM45A	-0.938782104	0.005506735
RP11-498J9.2	TMEM51	0.955344342	0.002946667
RP11-93O14.2	TMEM51	0.936672795	0.005888521

AC011558.5	EVL	0.904521199	0.0132391
CCDC144NL-AS1	AGXT2L2	-0.890293243	0.017393167
RP11-485G7.6	TMEM51	0.966303032	0.001684097
NUP50-AS1	AGXT2L2	0.811678776	0.04985793
PSMD5-AS1	AGXT2L2	0.916242286	0.010229237
TOPORS-AS1	AGXT2L2	0.822535625	0.04444591
AC087294.2	AGXT2L2	0.852157393	0.031170424
AP001062.8	AGXT2L2	0.823815466	0.043827014
RP11-455F5.3	AGXT2L2	0.867133884	0.025307338
RP11-78A19.3	TMEM51	0.928585758	0.007467885
Z69720.3	TMEM51	0.930418412	0.007093953
JHDM1D-AS1	AGXT2L2	0.86241718	0.027091394
RP11-20I23.6	AGXT2L2	0.887392972	0.018306566
CTA-315H11.2	TMEM63A	-0.975382422	0.000901578
AC005786.7	AGXT2L2	0.852793853	0.030909522
AC005944.2	AGXT2L2	0.879129558	0.021031557
RP11-20I23.8	AGXT2L2	0.869708578	0.024357878
CDC37L1-AS1	AGXT2L2	0.817386233	0.046976799
RP5-1142A6.10	AGXT2L2	0.895963944	0.015672234
RP11-556I13.1	AGXT2L2	0.862311932	0.027131861
RP3-438O4.4	TMEM63A	0.933840669	0.006420794
CCDC144NL-AS1	DGKD	-0.9108422	0.011569307
NUP50-AS1	TMEM63A	0.917263497	0.009984814
CTD-2139B15.2	DGKD	-0.825993332	0.042783166
RP3-438O4.4	DGKD	0.824223926	0.043630346
PSMD5-AS1	DGKD	0.9031703	0.013610049
TOPORS-AS1	DGKD	0.82319694	0.044125611
AC087294.2	DGKD	0.859064659	0.028394472
AP001062.8	DGKD	0.820832512	0.045275757
RP11-455F5.3	DGKD	0.872649099	0.023294674
PSMD5-AS1	TMEM63A	0.971641328	0.001194918
AP006621.8	DGKD	0.915445465	0.010421944
JHDM1D-AS1	DGKD	0.87617549	0.022049494
RP11-20I23.6	DGKD	0.89055851	0.017310745
TOPORS-AS1	TMEM63A	0.933002928	0.00658255
AC005786.7	DGKD	0.850216395	0.031972485
AC005944.2	DGKD	0.848912767	0.032516567
RP11-20I23.8	DGKD	0.880051439	0.020718597
CDC37L1-AS1	DGKD	0.841830158	0.035548026
RP5-1142A6.10	DGKD	0.887734049	0.018197985
RP11-556I13.1	DGKD	0.876270074	0.022016545
AC087294.2	TMEM63A	0.955474307	0.002929669
AC024028.1	LRRFIP1	0.860519795	0.027825317
RP11-473M20.11	LRRFIP1	0.901568483	0.014056306
AP001062.8	TMEM63A	0.931179488	0.006941418
RP11-91K8.5	LRRFIP1	-0.84095003	0.035933604
AC011558.5	LRRFIP1	0.843149555	0.034973671
CCDC144NL-AS1	ALAS2	-0.856630181	0.029358881
RP11-455F5.3	TMEM63A	0.962444192	0.002089173
RP11-326C3.2	TMEM63A	0.992070688	9.41E-05
AP006621.8	TMEM63A	0.978920864	0.000661812
JHDM1D-AS1	TMEM63A	0.964721804	0.001844874
RP11-20I23.6	TMEM63A	0.973536365	0.001041219
RP11-160E2.19	TMEM63A	0.992970966	7.39E-05
AC005786.7	TMEM63A	0.951021863	0.003539541
AC005944.2	TMEM63A	0.936420589	0.005935007
RP11-20I23.8	TMEM63A	0.967093235	0.001606466
CDC37L1-AS1	TMEM63A	0.943147335	0.004756458
RP5-1142A6.10	TMEM63A	0.970225581	0.001316576
RP11-556I13.1	TMEM63A	0.96477341	0.001839512
AC011558.5	TMEM63A	0.923542018	0.008545255
CTA-315H11.2	TMEM63B	-0.93232609	0.006714672
RP11-66D17.5	TMEM63B	0.968257931	0.001495347

RP11-126K1.8	TMEM63B	0.987576858	0.000230543
RP3-438O4.4	TMEM63B	0.993060343	7.21E-05
NUP50-AS1	TMEM63B	0.993459013	6.40E-05
PSMD5-AS1	TMEM63B	0.983840893	0.000389565
TOPORS-AS1	TMEM63B	0.976081142	0.000851326
LL21NC02-21A1.1	ALAS2	0.851380083	0.03149047
AC087294.2	TMEM63B	0.999262808	8.15E-07
AP001062.8	TMEM63B	0.998531226	3.23E-06
RP11-473M20.11	DENND5A	0.822466329	0.044479535
CCDC144NL-AS1	DENND5A	-0.83562013	0.03831028
CTA-315H11.2	DENND5A	-0.839551564	0.036550283
RP11-326C3.2	DENND5A	0.825301901	0.043113296
RP11-160E2.19	DENND5A	0.908681544	0.012127836
RP11-455F5.3	TMEM63B	0.998679876	2.61E-06
RP11-473M20.11	SKAP1	0.87070167	0.023996279
CTD-2541M15.3	SKAP1	-0.81141027	0.04999543
RP11-160E2.19	SKAP1	0.867361671	0.025222641
RP11-326C3.2	TMEM63B	0.979438043	0.000629844
CTA-315H11.2	SH3GLB2	-0.873387687	0.023031176
AP006621.8	TMEM63B	0.983136441	0.000424172
JHDM1D-AS1	TMEM63B	0.996934567	1.41E-05
RP11-20I23.6	TMEM63B	0.992624597	8.14E-05
RP11-160E2.19	TMEM63B	0.928621428	0.007460518
AC005786.7	TMEM63B	0.991170922	0.000116585
AC005944.2	TMEM63B	0.974695909	0.000952344
CTB-191K22.5	TMEM63B	0.989699316	0.00015861
RP11-20I23.8	TMEM63B	0.997126214	1.24E-05
CDC37L1-AS1	TMEM63B	0.992700394	7.97E-05
RP5-1142A6.10	TMEM63B	0.981647993	0.000502104
RP11-556I13.1	TMEM63B	0.996854806	1.48E-05
AC024028.1	TMEM66	0.996013153	2.38E-05
RP11-498J9.2	TMEM66	0.943381265	0.004717771
RP11-160E2.19	SH3GLB2	0.885257342	0.018993472
RP11-34P13.14	TMEM66	0.945090526	0.004439798
RP11-473M20.11	TMEM66	0.992287436	8.90E-05
RP4-784A16.3	TMEM67	0.975350188	0.000903931
RP11-77G23.2	TMEM67	0.95255168	0.003323603
CTA-315H11.2	TMEM71	-0.969405659	0.001389702
RP3-438O4.4	TMEM71	0.929349147	0.007310986
NUP50-AS1	TMEM71	0.923484355	0.00855798
PSMD5-AS1	TMEM71	0.978962747	0.000659194
CCDC144NL-AS1	ADIPOR1	-0.865516414	0.025912629
TOPORS-AS1	TMEM71	0.932591094	0.006662789
AC087294.2	TMEM71	0.955665552	0.002904744
AP001062.8	TMEM71	0.934967715	0.00620628
RP11-455F5.3	TMEM71	0.963469413	0.001977351
RP11-326C3.2	TMEM71	0.992526333	8.36E-05
AP006621.8	TMEM71	0.984681383	0.000350193
JHDM1D-AS1	TMEM71	0.962686315	0.00206249
RP11-20I23.6	TMEM71	0.974013246	0.001004193
RP11-160E2.19	TMEM71	0.996105868	2.27E-05
AC005786.7	TMEM71	0.952486702	0.003332639
AC005944.2	TMEM71	0.947818515	0.004013318
RP11-20I23.8	TMEM71	0.966094128	0.001704923
CDC37L1-AS1	TMEM71	0.93680536	0.005864158
RP5-1142A6.10	TMEM71	0.973197125	0.001067964
RP11-556I13.1	TMEM71	0.962661087	0.002065263
AC011558.5	TMEM71	0.927142609	0.007768928
CTA-315H11.2	TMEM86B	-0.935467924	0.006112215
RP11-66D17.5	TMEM86B	0.966491771	0.001665391
RP11-126K1.8	TMEM86B	0.986551986	0.000270058
RP3-438O4.4	TMEM86B	0.992660362	8.06E-05
LL21NC02-21A1.1	ADIPOR1	0.822002943	0.044704692

NUP50-AS1	TMEM86B	0.992739506	7.89E-05
PSMD5-AS1	TMEM86B	0.985275619	0.000323615
CCDC144NL-AS1	EPB41	-0.881041918	0.020384849
TOPORS-AS1	TMEM86B	0.975833805	0.000868951
AC087294.2	TMEM86B	0.999417605	5.09E-07
AP001062.8	TMEM86B	0.998011723	5.93E-06
RP11-455F5.3	TMEM86B	0.999071177	1.29E-06
RP11-326C3.2	TMEM86B	0.981298548	0.000521346
AP006621.8	TMEM86B	0.984711323	0.000348829
JHDM1D-AS1	TMEM86B	0.997413165	1.00E-05
RP11-20I23.6	TMEM86B	0.993560185	6.21E-05
RP11-160E2.19	TMEM86B	0.932282174	0.006723289
AC005786.7	TMEM86B	0.991448931	0.000109369
AC005944.2	TMEM86B	0.975679897	0.000880009
CTB-191K22.5	TMEM86B	0.98898678	0.000181269
RP11-20I23.8	TMEM86B	0.997714882	7.83E-06
CDC37L1-AS1	TMEM86B	0.992747331	7.87E-05
RP5-1142A6.10	TMEM86B	0.982797282	0.000441355
RP11-556I13.1	TMEM86B	0.997336332	1.06E-05
RP11-34P13.14	TMEM87B	0.936564948	0.005908377
AC011558.5	TMEM98	-0.943723927	0.004661381
RMRP	EPB41	0.842120707	0.035421167
CTA-315H11.2	TMIGD2	-0.967727934	0.001545424
RP11-126K1.8	TMIGD2	0.919925081	0.009361269
RP3-438O4.4	TMIGD2	0.939607521	0.005360744
NUP50-AS1	TMIGD2	0.933550918	0.006476518
CCDC144NL-AS1	C9orf78	-0.86559031	0.025884827
PSMD5-AS1	TMIGD2	0.982337372	0.000465198
TOPORS-AS1	TMIGD2	0.942702973	0.004830372
AC087294.2	TMIGD2	0.963525503	0.001971321
AP001062.8	TMIGD2	0.944159538	0.004590176
RP11-455F5.3	TMIGD2	0.970324026	0.001307928
RP11-326C3.2	TMIGD2	0.995486286	3.05E-05
AP006621.8	TMIGD2	0.987573937	0.000230651
JHDM1D-AS1	TMIGD2	0.969801446	0.001354159
RP11-20I23.6	TMIGD2	0.980250168	0.000581232
RP11-160E2.19	TMIGD2	0.994484165	4.56E-05
AC005786.7	TMIGD2	0.961040742	0.002247169
AC005944.2	TMIGD2	0.95342088	0.003203892
CTB-191K22.5	TMIGD2	0.922510665	0.008774249
RP11-20I23.8	TMIGD2	0.972900377	0.001091634
CDC37L1-AS1	TMIGD2	0.946220976	0.004260506
RP5-1142A6.10	TMIGD2	0.979281528	0.000639436
RP11-556I13.1	TMIGD2	0.969781708	0.001355921
AC011558.5	TMIGD2	0.919480684	0.009464022
LLNLR-284B4.1	TMPO	-0.95469776	0.003031953
RP11-77G23.2	TMPO	0.979704768	0.000613665
LL21NC02-21A1.1	C9orf78	0.819957928	0.045704676
CTD-2541M15.3	TMPO	0.926733812	0.007855257
RP11-160E2.19	TMPRSS13	0.949520166	0.003758004
AC011558.5	TMPRSS13	0.971636889	0.001195291
RP11-66D17.5	TMPRSS4	0.979014753	0.00065595
RP11-126K1.8	TMPRSS4	0.992296104	8.88E-05
RP3-438O4.4	TMPRSS4	0.990988198	0.000121453
NUP50-AS1	TMPRSS4	0.997658383	8.22E-06
RP11-485G7.6	IFNGR1	0.89804226	0.015063126
PSMD5-AS1	TMPRSS4	0.979838998	0.000605602
TOPORS-AS1	TMPRSS4	0.974261844	0.000985154
AC087294.2	TMPRSS4	0.996477495	1.86E-05
AP001062.8	TMPRSS4	0.999985782	3.03E-10
RP11-455F5.3	TMPRSS4	0.994973248	3.78E-05
RP11-326C3.2	TMPRSS4	0.96965811	0.001366979
AP006621.8	TMPRSS4	0.977228256	0.000771924

JHDM1D-AS1	TMPRSS4	0.991779809	0.00010108
RP11-20I23.6	TMPRSS4	0.987463164	0.000234773
AC005786.7	TMPRSS4	0.989716658	0.000158077
AC005944.2	TMPRSS4	0.977323449	0.000765509
CTB-191K22.5	TMPRSS4	0.99528101	3.34E-05
RP11-20I23.8	TMPRSS4	0.99219599	9.11E-05
CDC37L1-AS1	TMPRSS4	0.988988565	0.00018121
RP5-1142A6.10	TMPRSS4	0.977307131	0.000766606
RP11-556I13.1	TMPRSS4	0.99166131	0.000104011
RP11-66D17.5	TMSL6	0.996331292	2.02E-05
RP11-126K1.8	TMSL6	0.976129605	0.000847893
RP3-438O4.4	TMSL6	0.964323622	0.001886501
NUP50-AS1	TMSL6	0.991840673	9.96E-05
PSMD5-AS1	TMSL6	0.948247662	0.003948152
TOPORS-AS1	TMSL6	0.959448783	0.002433261
CCDC144NL-AS1	HPS1	-0.840613801	0.03608142
AC087294.2	TMSL6	0.96645966	0.001668566
AP001062.8	TMSL6	0.981241216	0.000524537
RP11-455F5.3	TMSL6	0.960931746	0.002259677
RP11-326C3.2	TMSL6	0.922358612	0.008808259
AP006621.8	TMSL6	0.938540953	0.00554975
JHDM1D-AS1	TMSL6	0.954230404	0.003094343
RP11-20I23.6	TMSL6	0.956450687	0.002803517
AC005786.7	TMSL6	0.973745037	0.001024936
AC005944.2	TMSL6	0.974830237	0.000942303
CTB-191K22.5	TMSL6	0.993047365	7.23E-05
RP11-20I23.8	TMSL6	0.956329434	0.002819035
CDC37L1-AS1	TMSL6	0.957882227	0.002623504
LL21NC02-21A1.1	TMSL6	0.936026354	0.006008031
RP5-1142A6.10	TMSL6	0.956343006	0.002817296
RP11-160E2.19	HPS1	0.915378181	0.010438296
RP11-556I13.1	TMSL6	0.954029707	0.003121328
RP11-160E2.19	TNF	0.966920453	0.001623286
AC011558.5	TNF	0.981214683	0.000526018
RMRP	HPS1	0.81395335	0.048700184
RP11-473M20.11	TNFAIP2	0.925398588	0.008140464
AC011558.5	TNFAIP2	0.922275458	0.008826886
LL21NC02-21A1.1	HPS1	0.871128022	0.023841828
AC024028.1	TNFAIP3	0.981066178	0.000534341
RP11-498J9.2	TNFAIP3	0.997190973	1.18E-05
CCDC144NL-AS1	MT1P3	-0.87300465	0.023167649
RP11-34P13.14	TNFAIP3	0.976970675	0.000789418
RP11-93O14.2	TNFAIP3	0.972111179	0.001155783
RP11-485G7.6	TNFAIP3	0.949298851	0.003790743
RP11-473M20.11	TNFAIP3	0.94233465	0.004892062
RP11-78A19.3	TNFAIP3	0.97534208	0.000904523
Z69720.3	TNFAIP3	0.978723761	0.000674202
AC024028.1	TNFAIP6	0.960657353	0.002291318
RP11-498J9.2	TNFAIP6	0.999420162	5.04E-07
RP11-34P13.14	TNFAIP6	0.974376538	0.000976431
RP11-93O14.2	TNFAIP6	0.979422874	0.000630771
RP11-485G7.6	TNFAIP6	0.969098488	0.001417601
RP11-78A19.3	TNFAIP6	0.980076416	0.000591469
Z69720.3	TNFAIP6	0.987619323	0.000228973
AC024028.1	TNFRSF10B	0.974369577	0.000976959
RP11-498J9.2	TNFRSF10B	0.994581508	4.40E-05
RP11-34P13.14	TNFRSF10B	0.990172541	0.000144394
RP11-93O14.2	TNFRSF10B	0.973841682	0.001017437
RP11-485G7.6	TNFRSF10B	0.93475899	0.006245738
RP11-473M20.11	TNFRSF10B	0.926635371	0.007876116
RP11-78A19.3	TNFRSF10B	0.97041865	0.001299642
LL21NC02-21A1.1	MT1P3	0.813677224	0.048840058
Z69720.3	TNFRSF10B	0.990376151	0.000138482

CTA-315H11.2	TNFRSF10C	-0.963759435	0.001946269
AC011558.5	MT1P3	0.828807752	0.041451631
RP11-66D17.5	TNFRSF10C	0.921127937	0.00908588
RP11-126K1.8	TNFRSF10C	0.955998801	0.002861563
AC011558.5	RARA	0.851254704	0.031542238
AC024028.1	BCL3	0.883320578	0.019626889
RP3-438O4.4	TNFRSF10C	0.976692576	0.000808523
LLNLR-284B4.1	BCL3	0.814587024	0.048379897
AC011558.5	BCL3	0.89524654	0.015885186
CCDC144NL-AS1	ECHDC2	-0.871866938	0.023575273
NUP50-AS1	TNFRSF10C	0.967757804	0.00154258
PSMD5-AS1	ECHDC2	0.882244227	0.019983207
AC087294.2	ECHDC2	0.825791198	0.042879554
RP11-455F5.3	ECHDC2	0.840113045	0.036302095
RP11-326C3.2	ECHDC2	0.912201551	0.011224451
AP006621.8	ECHDC2	0.893150692	0.016515225
JHDM1D-AS1	ECHDC2	0.841697028	0.035606224
RP11-20I23.6	ECHDC2	0.866540347	0.025528662
PSMD5-AS1	TNFRSF10C	0.989417677	0.000167386
AC005786.7	ECHDC2	0.828284233	0.041697825
AC005944.2	ECHDC2	0.835675363	0.038285285
RP11-20I23.8	ECHDC2	0.847731339	0.033013386
RP5-1142A6.10	ECHDC2	0.874854999	0.022511942
RP11-556I13.1	ECHDC2	0.841760337	0.035578542
TOPORS-AS1	TNFRSF10C	0.970004876	0.001336068
CCDC144NL-AS1	WAS	-0.885491924	0.018917428
AC087294.2	TNFRSF10C	0.990346168	0.000139345
RP11-66D17.5	WAS	0.83842065	0.037052582
RP11-126K1.8	WAS	0.881780754	0.020137581
AP001062.8	TNFRSF10C	0.977288667	0.00076785
NUP50-AS1	WAS	0.905118694	0.013076611
RP11-455F5.3	TNFRSF10C	0.99342762	6.47E-05
RP11-326C3.2	TNFRSF10C	0.999131399	1.13E-06
AP006621.8	TNFRSF10C	0.993065003	7.20E-05
AP001062.8	WAS	0.91584491	0.010325122
JHDM1D-AS1	TNFRSF10C	0.993940838	5.50E-05
RP11-20I23.6	TNFRSF10C	0.996567153	1.77E-05
RP11-160E2.19	TNFRSF10C	0.973584488	0.001037453
AC005786.7	TNFRSF10C	0.984832351	0.000343342
AC005944.2	TNFRSF10C	0.966244666	0.001689903
CTB-191K22.5	TNFRSF10C	0.959003985	0.002486559
RP11-20I23.8	TNFRSF10C	0.995146947	3.53E-05
CDC37L1-AS1	TNFRSF10C	0.98064707	0.00055818
CTB-191K22.5	WAS	0.892041076	0.016853556
RP5-1142A6.10	TNFRSF10C	0.990037097	0.000148395
RP11-556I13.1	TNFRSF10C	0.993934468	5.51E-05
AC024028.1	TNFRSF10D	0.968564553	0.001466749
RP11-498J9.2	TNFRSF10D	0.999728267	1.11E-07
RP11-34P13.14	TNFRSF10D	0.981868022	0.000490172
AC024028.1	FNBP1	0.819719279	0.045822043
RP11-473M20.11	FNBP1	0.897419523	0.015244417
RP11-160E2.19	FNBP1	0.840605625	0.036085018
RP11-93O14.2	TNFRSF10D	0.981377981	0.000516941
RP11-485G7.6	TNFRSF10D	0.959029504	0.002483486
RP11-473M20.11	TNFRSF10D	0.920052515	0.009331904
RP11-78A19.3	TNFRSF10D	0.98121944	0.000525752
Z69720.3	TNFRSF10D	0.987812699	0.00022189
RP11-680G24.6	TNFRSF11A	0.922407519	0.008797313
RP11-160E2.19	TNFRSF14	0.920490915	0.009231226
AC024028.1	TNFRSF18	0.962469665	0.002086358
RP11-680G24.6	KLF4	0.826112092	0.042726582
LA16c-359F1.1	KLF4	0.879950873	0.020752628
RP11-498J9.2	TNFRSF18	0.999973319	1.07E-09

RP11-34P13.14	TNFRSF18	0.977820734	0.000732425
RP11-93O14.2	TNFRSF18	0.983610742	0.000400711
RP11-485G7.6	TNFRSF18	0.96705416	0.001610262
RP11-93O14.2	RASGRP4	0.912993249	0.011025934
RP11-485G7.6	RASGRP4	0.880237002	0.020655873
RP11-78A19.3	TNFRSF18	0.983760317	0.00039345
Z69720.3	TNFRSF18	0.986560639	0.000269711
RP4-784A16.3	TNFRSF19	0.950254537	0.003650366
CCDC144NL-AS1	C7orf41	-0.916599025	0.010143527
RP11-77G23.2	TNFRSF19	0.989145536	0.00017609
RP11-66D17.5	C7orf41	0.901465325	0.014085283
RP11-498J9.2	TNFRSF21	0.960171811	0.002347838
RP11-34P13.14	TNFRSF21	0.957463858	0.002675504
RP11-93O14.2	TNFRSF21	0.975709471	0.000877879
RP11-485G7.6	TNFRSF21	0.942048369	0.004940275
RP11-78A19.3	TNFRSF21	0.957504734	0.002670401
Z69720.3	TNFRSF21	0.972469736	0.00112644
CTA-315H11.2	TNFRSF25	-0.955201348	0.002965425
RP11-66D17.5	TNFRSF25	0.937552838	0.005727711
RP11-126K1.8	TNFRSF25	0.965146678	0.001800962
RP3-438O4.4	TNFRSF25	0.987253084	0.00024269
NUP50-AS1	TNFRSF25	0.977182018	0.00077505
PSMD5-AS1	TNFRSF25	0.986657332	0.000265853
TOPORS-AS1	TNFRSF25	0.977434856	0.000758034
AC087294.2	TNFRSF25	0.996187479	2.18E-05
AP001062.8	TNFRSF25	0.985786875	0.000301584
RP11-455F5.3	TNFRSF25	0.997498318	9.38E-06
RP11-326C3.2	TNFRSF25	0.995105083	3.59E-05
AP006621.8	TNFRSF25	0.989498063	0.000164857
JHDM1D-AS1	TNFRSF25	0.998565997	3.08E-06
RP11-20I23.6	TNFRSF25	0.998342942	4.12E-06
AC011558.5	C7orf41	0.875420614	0.022313298
CCDC144NL-AS1	WDR13	-0.842445746	0.035279503
RP11-160E2.19	TNFRSF25	0.95986397	0.002384024
AC005786.7	TNFRSF25	0.990312442	0.000140319
AC005944.2	TNFRSF25	0.966852089	0.001629965
CTB-191K22.5	TNFRSF25	0.969337063	0.001395909
RP11-20I23.8	TNFRSF25	0.999015014	1.45E-06
CDC37L1-AS1	TNFRSF25	0.9900294	0.000148624
RP5-1142A6.10	TNFRSF25	0.990111643	0.000146186
RP11-556I13.1	TNFRSF25	0.998569356	3.07E-06
AC024028.1	TNFRSF8	0.993751794	5.84E-05
RP11-498J9.2	TNFRSF8	0.948082343	0.003973194
RP11-34P13.14	TNFRSF8	0.920488161	0.009231857
RP11-473M20.11	TNFRSF8	0.992565644	8.27E-05
AC024028.1	TNFSF10	0.989891302	0.000152762
RP11-498J9.2	TNFSF10	0.920497502	0.009229717
RP11-473M20.11	TNFSF10	0.999840312	3.82E-08
RP11-160E2.19	TNFSF14	0.947892088	0.004002109
AC011558.5	TNFSF14	0.978746687	0.000672755
AC024028.1	TNFSF8	0.963099363	0.002017363
RP11-473M20.11	TNFSF8	0.993198585	6.92E-05
RP11-498J9.2	TNFSF9	0.958237459	0.002579746
LL21NC02-21A1.1	WDR13	0.865605645	0.025879059
RP11-34P13.14	TNFSF9	0.961044515	0.002246737
RP11-93O14.2	TNFSF9	0.967098583	0.001605947
CCDC144NL-AS1	STK10	-0.909084802	0.012022627
RP11-485G7.6	TNFSF9	0.932445602	0.00669125
RP11-126K1.8	STK10	0.867568072	0.025146014
RP3-438O4.4	STK10	0.868362549	0.024852093
NUP50-AS1	STK10	0.875142646	0.022410815
RP11-78A19.3	TNFSF9	0.947875952	0.004004566
TOPORS-AS1	STK10	0.875722239	0.02220771

AC087294.2	STK10	0.908411706	0.012198483
AP001062.8	STK10	0.886258064	0.018670089
Z69720.3	TNFSF9	0.979780826	0.00060909
CTA-315H11.2	TNIP1	-0.958049125	0.0026029
RP11-66D17.5	TNIP1	0.933190708	0.006546121
JHDM1D-AS1	STK10	0.915893134	0.010313463
RP11-126K1.8	TNIP1	0.960140209	0.00235154
RP3-438O4.4	TNIP1	0.98315741	0.00042312
AC005786.7	STK10	0.905648731	0.012933278
NUP50-AS1	TNIP1	0.974160889	0.000992864
CTB-191K22.5	STK10	0.865599134	0.025881508
PSMD5-AS1	TNIP1	0.988580956	0.000194847
CDC37L1-AS1	STK10	0.878386707	0.021285372
TOPORS-AS1	TNIP1	0.975015843	0.000928515
RP11-556I13.1	STK10	0.915773477	0.010342405
AC087294.2	TNIP1	0.993745453	5.86E-05
AP001062.8	TNIP1	0.982174573	0.000473787
RP11-455F5.3	TNIP1	0.995494834	3.04E-05
CCDC144NL-AS1	LUC7L3	-0.879513138	0.020901067
RP11-326C3.2	TNIP1	0.996850251	1.49E-05
RP11-66D17.5	LUC7L3	0.862713727	0.026977528
RP11-126K1.8	LUC7L3	0.901606273	0.014045698
AP006621.8	TNIP1	0.991191286	0.000116048
NUP50-AS1	LUC7L3	0.911850257	0.011313087
PSMD5-AS1	LUC7L3	0.914228621	0.010719596
JHDM1D-AS1	TNIP1	0.996477087	1.86E-05
RP11-20I23.6	TNIP1	0.998479797	3.46E-06
RP11-160E2.19	TNIP1	0.967780951	0.001540378
AC005786.7	TNIP1	0.98964756	0.000160205
AC005944.2	TNIP1	0.970102821	0.0013274
CTB-191K22.5	TNIP1	0.966710201	0.00164387
RP11-20I23.8	TNIP1	0.997481984	9.50E-06
CDC37L1-AS1	TNIP1	0.987025108	0.00025143
RP11-160E2.19	LUC7L3	0.89516649	0.015909034
RP5-1142A6.10	TNIP1	0.99197086	9.64E-05
AC005944.2	LUC7L3	0.865182895	0.026038284
CTB-191K22.5	LUC7L3	0.896809259	0.015423089
RMRP	LUC7L3	0.838699698	0.036928343
RP11-556I13.1	TNIP1	0.996481356	1.85E-05
CTA-315H11.2	TNK2	-0.959640497	0.002410464
RP11-126K1.8	TNK2	0.921864235	0.008919279
RP3-438O4.4	TNK2	0.918696692	0.009646625
NUP50-AS1	TNK2	0.928825643	0.007418406
PSMD5-AS1	TNK2	0.985462315	0.00031548
TOPORS-AS1	TNK2	0.922227124	0.008837721
AC087294.2	TNK2	0.95128676	0.003501672
AP001062.8	TNK2	0.936806744	0.005863904
RP11-455F5.3	TNK2	0.960145121	0.002350964
RP11-326C3.2	TNK2	0.98604594	0.000290715
RP11-680G24.6	TUBB3	0.837942596	0.037265879
LA16c-359F1.1	TUBB3	0.887578028	0.018247616
AP006621.8	TNK2	0.98815649	0.000209572
CCDC144NL-AS1	FAM134A	-0.865208579	0.026028597
JHDM1D-AS1	TNK2	0.954829622	0.003014463
RP11-20I23.6	TNK2	0.968485048	0.001474138
RP11-160E2.19	TNK2	0.992467416	8.49E-05
AC005786.7	TNK2	0.948339912	0.003934213
AC005944.2	TNK2	0.962459586	0.002087471
CTB-191K22.5	TNK2	0.920575248	0.00921192
RP11-20I23.8	TNK2	0.959723718	0.002400601
CDC37L1-AS1	TNK2	0.92466917	0.00829836
RP5-1142A6.10	TNK2	0.969492898	0.001381829
RP11-556I13.1	TNK2	0.954686522	0.003033446

AC011558.5	TNK2	0.918744329	0.009635481
RP11-118G23.2	TNKS	0.987395273	0.000237317
RP11-680G24.6	TNKS	0.930530507	0.007071385
CTD-2139B15.2	TNKS1BP1	0.925691246	0.008077528
AC024028.1	TNNT1	0.949306545	0.003789603
RP11-498J9.2	TNNT1	0.997872846	6.78E-06
RP11-34P13.14	TNNT1	0.965710138	0.001743533
RP11-93O14.2	TNNT1	0.982554084	0.000453885
RP11-485G7.6	TNNT1	0.979293953	0.000638672
RP11-78A19.3	TNNT1	0.982607185	0.000451134
LL21NC02-21A1.1	FAM134A	0.828073138	0.041797289
Z69720.3	TNNT1	0.982068099	0.000479447
RP11-91K8.5	TNNT2	0.935562569	0.006094496
CCDC144NL-AS1	FAM100B	-0.856234219	0.029517181
CTA-315H11.2	TNNT3	-0.967552376	0.001562191
RP11-126K1.8	TNNT3	0.952742602	0.003297123
RP3-438O4.4	TNNT3	0.972867941	0.001094236
NUP50-AS1	TNNT3	0.962881516	0.002041102
PSMD5-AS1	TNNT3	0.988509733	0.000197281
TOPORS-AS1	TNNT3	0.965830359	0.001731399
AC087294.2	TNNT3	0.987795702	0.000222508
AP001062.8	TNNT3	0.973684031	0.001029683
RP11-455F5.3	TNNT3	0.991584929	0.000105922
RP11-326C3.2	TNNT3	0.999449705	4.54E-07
AP006621.8	TNNT3	0.992899906	7.54E-05
JHDM1D-AS1	TNNT3	0.992091495	9.36E-05
RP11-20I23.6	TNNT3	0.994478572	4.56E-05
RP11-160E2.19	TNNT3	0.975134614	0.000919744
AC005786.7	TNNT3	0.980864358	0.000545756
AC005944.2	TNNT3	0.962080629	0.002129556
CTB-191K22.5	TNNT3	0.953556452	0.003185415
RP11-20I23.8	TNNT3	0.993266827	6.79E-05
CDC37L1-AS1	TNNT3	0.977097756	0.000780763
RP5-1142A6.10	TNNT3	0.987289004	0.000241327
LL21NC02-21A1.1	FAM100B	0.845421406	0.03399502
RP11-556I13.1	TNNT3	0.992084852	9.37E-05
RP11-34P13.14	TNRC18	0.947248837	0.004100633
AC011558.5	FAM100B	0.81241616	0.049481224
Z69720.3	TNRC18	0.917577333	0.009910275
CTA-315H11.2	TNS1	-0.942604033	0.004846906
RP11-66D17.5	CCDC88B	0.863781837	0.026569291
RP11-66D17.5	TNS1	0.954981234	0.002994414
RP3-438O4.4	CCDC88B	0.911302887	0.011451869
RP11-126K1.8	TNS1	0.985092938	0.000331674
RP3-438O4.4	TNS1	0.989383112	0.000168479
TOPORS-AS1	CCDC88B	0.908649417	0.012136236
NUP50-AS1	TNS1	0.987230261	0.000243558
PSMD5-AS1	TNS1	0.984959193	0.000337638
TOPORS-AS1	TNS1	0.972162927	0.001151568
AC087294.2	TNS1	0.99805685	5.66E-06
AP001062.8	TNS1	0.995206256	3.44E-05
RP11-455F5.3	TNS1	0.998924481	1.73E-06
RP11-326C3.2	TNS1	0.983715289	0.000395628
AP006621.8	TNS1	0.986043368	0.000290822
JHDM1D-AS1	TNS1	0.997172051	1.20E-05
RP11-20I23.6	TNS1	0.991988701	9.60E-05
RP11-160E2.19	TNS1	0.933985865	0.006392959
AC005786.7	TNS1	0.98668635	0.0002647
CDC37L1-AS1	CCDC88B	0.917182428	0.010004113
AC005944.2	TNS1	0.968022434	0.001517498
CTB-191K22.5	TNS1	0.981673037	0.000500739
AC011558.5	CCDC88B	0.902960033	0.013668232
RP11-156P1.3	ABCA7	-0.888455629	0.017969294

RP11-66D17.5	ABCA7	0.857439975	0.029036392
RP11-126K1.8	ABCA7	0.902453727	0.013808823
NUP50-AS1	ABCA7	0.866168469	0.025667798
PSMD5-AS1	ABCA7	0.881306658	0.020296082
AC087294.2	ABCA7	0.826573149	0.04250724
AP001062.8	ABCA7	0.857291805	0.029095272
RP11-455F5.3	ABCA7	0.834741567	0.038708892
AP006621.8	ABCA7	0.86591131	0.025764223
RP11-20I23.6	ABCA7	0.81326045	0.04905153
AC005944.2	ABCA7	0.907753002	0.012371775
CTB-191K22.5	ABCA7	0.881490396	0.020234584
RP11-20I23.8	ABCA7	0.816301362	0.047518312
LL21NC02-21A1.1	ABCA7	0.84661489	0.033486143
RP11-20I23.8	TNS1	0.997161482	1.21E-05
RP11-680G24.6	SNF8	-0.904174107	0.013333937
LA16c-359F1.1	SNF8	-0.843722896	0.034725458
CTC-1337H24.3	SNF8	0.858788678	0.028503034
RP11-66D17.5	SNF8	0.837117118	0.03763554
CDC37L1-AS1	TNS1	0.989104191	0.000177431
CCDC144NL-AS1	AKT2	-0.847564649	0.03308377
RP5-1142A6.10	TNS1	0.979425231	0.000630627
RP11-556I13.1	TNS1	0.997091678	1.27E-05
CTD-2541M15.3	TNS3	0.94137394	0.005054773
AC011558.5	TNS3	-0.922342608	0.008811843
AC024028.1	TNS4	0.959302009	0.002450785
RP11-498J9.2	TNS4	0.998736302	2.39E-06
RP11-34P13.14	TNS4	0.983262265	0.000417883
RP11-93O14.2	TNS4	0.983621899	0.000400167
RP11-485G7.6	TNS4	0.960236925	0.002340218
RP11-78A19.3	TNS4	0.980295221	0.000578592
Z69720.3	TNS4	0.992166176	9.18E-05
RP11-473M20.11	TOB1	0.924660018	0.00830035
CTA-315H11.2	TOLLIP	-0.929596038	0.007260591
RP11-66D17.5	TOLLIP	0.951804158	0.003428283
RP11-160E2.19	AKT2	0.9149985	0.010530804
RP11-126K1.8	TOLLIP	0.980116401	0.000589106
RP3-438O4.4	TOLLIP	0.982260266	0.000469256
NUP50-AS1	TOLLIP	0.986595269	0.000268326
RMRP	AKT2	0.827199085	0.042210303
PSMD5-AS1	TOLLIP	0.986089884	0.000288891
TOPORS-AS1	TOLLIP	0.977479622	0.00075504
LL21NC02-21A1.1	AKT2	0.843962988	0.034621764
AC087294.2	TOLLIP	0.994187936	5.06E-05
AP001062.8	TOLLIP	0.991628975	0.000104818
RP11-455F5.3	TOLLIP	0.995432768	3.12E-05
CCDC144NL-AS1	HLA-F	-0.877241473	0.021679519
RP11-326C3.2	TOLLIP	0.984785774	0.000345448
AP006621.8	TOLLIP	0.986695399	0.000264341
JHDM1D-AS1	TOLLIP	0.992245935	9.00E-05
RP11-20I23.6	TOLLIP	0.992387511	8.67E-05
RP11-160E2.19	TOLLIP	0.942463773	0.004870392
AC005786.7	TOLLIP	0.988717285	0.000190231
AC005944.2	TOLLIP	0.971937241	0.001170228
CTB-191K22.5	TOLLIP	0.978143579	0.000711334
RP11-20I23.8	TOLLIP	0.993257342	6.80E-05
CDC37L1-AS1	TOLLIP	0.979880769	0.000603103
RP5-1142A6.10	TOLLIP	0.985910661	0.000296366
RP11-556I13.1	TOLLIP	0.992138744	9.25E-05
CTD-2541M15.3	TOP2A	0.952183608	0.003374947
RP11-77G23.2	TOPBP1	0.995841105	2.59E-05
CTA-315H11.2	TOX2	-0.966955204	0.001619896
RP11-126K1.8	TOX2	0.94354283	0.004691142
RP3-438O4.4	TOX2	0.967141164	0.001601816

NUP50-AS1	TOX2	0.957355144	0.002689099
PSMD5-AS1	TOX2	0.987625716	0.000228737
TOPORS-AS1	TOX2	0.963797796	0.001942176
AC087294.2	TOX2	0.983253374	0.000418326
AP001062.8	TOX2	0.967337615	0.001582824
AC011558.5	HLA-F	0.860371092	0.027883229
RP11-455F5.3	TOX2	0.987308711	0.000240581
RP11-326C3.2	TOX2	0.999867728	2.62E-08
AP006621.8	TOX2	0.991980505	9.62E-05
RP11-93O14.2	IL10RA	0.903161272	0.013612545
RP11-485G7.6	IL10RA	0.875004662	0.022459298
JHDM1D-AS1	TOX2	0.988098643	0.000211621
RP11-78A19.3	IL10RA	0.913959953	0.010785862
RP11-20I23.6	TOX2	0.993350622	6.62E-05
RP11-160E2.19	TOX2	0.98263631	0.000449629
AC005786.7	TOX2	0.979274509	0.000639868
AC005944.2	TOX2	0.962475228	0.002085743
CTB-191K22.5	TOX2	0.947722568	0.00402796
RP11-20I23.8	TOX2	0.989817968	0.000154983
CDC37L1-AS1	TOX2	0.972329765	0.00113787
RP5-1142A6.10	TOX2	0.988767912	0.000188531
RP11-680G24.6	ICAM1	0.82096376	0.045211551
LA16c-359F1.1	ICAM1	0.879017469	0.021069762
RP11-556I13.1	TOX2	0.988104312	0.000211419
CCDC144NL-AS1	UBXN6	-0.861961608	0.027266763
AC024028.1	TP53I11	0.996298856	2.05E-05
RP11-498J9.2	TP53I11	0.975498887	0.000893103
RP11-34P13.14	TP53I11	0.95126412	0.003504901
RP11-93O14.2	TP53I11	0.932284124	0.006722906
RP11-473M20.11	TP53I11	0.979531452	0.000624154
RP11-78A19.3	TP53I11	0.939939739	0.005302527
Z69720.3	TP53I11	0.945323209	0.004402598
CTA-315H11.2	TPM2	-0.966543564	0.001660275
RP11-66D17.5	TPM2	0.917382083	0.009956617
RP11-126K1.8	TPM2	0.953752208	0.003158829
RP3-438O4.4	TPM2	0.974381796	0.000976032
NUP50-AS1	TPM2	0.965204947	0.00179498
PSMD5-AS1	TPM2	0.989589273	0.000162011
TOPORS-AS1	TPM2	0.967206878	0.001595451
AC087294.2	TPM2	0.988821518	0.000186739
AP001062.8	TPM2	0.975126638	0.000920332
RP11-455F5.3	TPM2	0.992258479	8.97E-05
RP11-326C3.2	TPM2	0.999459934	4.37E-07
AP006621.8	TPM2	0.993396824	6.53E-05
JHDM1D-AS1	TPM2	0.992780304	7.80E-05
LL21NC02-21A1.1	UBXN6	0.828561186	0.041567498
RP11-20I23.6	TPM2	0.995671278	2.81E-05
RP11-160E2.19	TPM2	0.975750483	0.000874929
CCDC144NL-AS1	NBEAL2	-0.85730505	0.029090007
CTA-315H11.2	NBEAL2	-0.891693959	0.016960072
CTD-2541M15.3	NBEAL2	-0.812478185	0.049449598
PSMD5-AS1	NBEAL2	0.850389256	0.031900665
RP11-326C3.2	NBEAL2	0.879050025	0.021058663
AP006621.8	NBEAL2	0.861651089	0.027386604
RP11-20I23.6	NBEAL2	0.826378166	0.042599936
AC005786.7	TPM2	0.982976639	0.000432226
RP5-1142A6.10	NBEAL2	0.837233193	0.037583457
AC005944.2	TPM2	0.96568931	0.00174564
CCDC144NL-AS1	ACP1	-0.864878629	0.026153169
CTB-191K22.5	TPM2	0.956641212	0.00277922
RP11-20I23.8	TPM2	0.994097472	5.22E-05
CDC37L1-AS1	TPM2	0.978896839	0.000663316
RP5-1142A6.10	TPM2	0.989050312	0.000179187

RP11-556I13.1	TPM2	0.992774346	7.81E-05
AC024028.1	TPM4	0.965298187	0.001785429
RP11-498J9.2	TPM4	0.992023219	9.52E-05
RP11-34P13.14	TPM4	0.995287717	3.33E-05
RP11-93O14.2	TPM4	0.983715078	0.000395639
RP11-485G7.6	TPM4	0.933495019	0.006487296
RP11-78A19.3	TPM4	0.979358243	0.000634726
Z69720.3	TPM4	0.987689276	0.000226398
AC024028.1	TPPP3	0.964355341	0.001883169
RP11-498J9.2	TPPP3	1	0
RP11-34P13.14	TPPP3	0.978552256	0.000685076
RP11-93O14.2	TPPP3	0.982998398	0.000431125
RP11-485G7.6	TPPP3	0.965304842	0.001784749
RP11-78A19.3	TPPP3	0.983256999	0.000418145
Z69720.3	TPPP3	0.986539728	0.000270549
RP11-66D17.5	TPRG1L	0.971366961	0.001218039
LL21NC02-21A1.1	ACP1	0.829651189	0.041056424
RP11-126K1.8	TPRG1L	0.989647744	0.000160199
RP3-438O4.4	TPRG1L	0.933485494	0.006489133
NUP50-AS1	TPRG1L	0.972335418	0.001137407
PSMD5-AS1	TPRG1L	0.939123569	0.005446108
LLNLR-284B4.1	ARID5A	0.849441066	0.032295554
AC011558.5	ARID5A	0.851862787	0.031291542
AC087294.2	TPRG1L	0.946233126	0.004258598
AP001062.8	TPRG1L	0.969138688	0.001413934
RP11-455F5.3	TPRG1L	0.945446468	0.004382954
AP006621.8	TPRG1L	0.929914594	0.007195818
JHDM1D-AS1	TPRG1L	0.932338991	0.006712142
RP11-20I23.6	TPRG1L	0.923401032	0.008576384
AC005786.7	TPRG1L	0.931383164	0.006900872
LA16c-359F1.1	FCAR	0.840822471	0.035989649
AC005944.2	TPRG1L	0.952067776	0.003391185
CTB-191K22.5	TPRG1L	0.977905984	0.000726826
RP11-20I23.8	TPRG1L	0.933947364	0.006400334
CDC37L1-AS1	TPRG1L	0.925438636	0.008131837
LL21NC02-21A1.1	TPRG1L	0.923115149	0.008639677
RP11-556I13.1	TPRG1L	0.931947599	0.006789114
RP5-1033H22.2	TPSAB1	0.95561777	0.002910962
RP11-21J18.1	TPSAB1	0.920568415	0.009213483
LA16c-359F1.1	PFKFB3	0.863803508	0.026561039
RP11-298J23.8	TPSAB1	0.945418347	0.004387432
CCDC144NL-AS1	SEPT6	-0.878327457	0.021305679
RP11-165D6.1	TPSAB1	0.963021288	0.002025855
RP3-438O4.4	SEPT6	0.832324121	0.03981568
NUP50-AS1	SEPT6	0.829638778	0.041062227
RP5-1033H22.2	TPSB2	0.925641538	0.008088201
TOPORS-AS1	SEPT6	0.852918431	0.030858575
AC087294.2	SEPT6	0.871553593	0.023688134
AP001062.8	SEPT6	0.840888747	0.035960525
RP11-455F5.3	SEPT6	0.883939976	0.019423233
RP3-339A18.6	TPSB2	0.953518717	0.003190553
RP11-165D6.1	TPSB2	0.919200704	0.009529039
JHDM1D-AS1	SEPT6	0.882618963	0.019858806
RP11-20I23.6	SEPT6	0.907305056	0.012490295
RP3-339A18.6	TPSD1	0.986144093	0.000286649
AC005786.7	SEPT6	0.876711026	0.02186325
AC005944.2	SEPT6	0.887942283	0.018131847
CTB-191K22.5	SEPT6	0.815661699	0.04783895
RP11-20I23.8	SEPT6	0.888957288	0.017811121
CDC37L1-AS1	SEPT6	0.844351247	0.034454387
CTA-315H11.2	TPT1	-0.96855501	0.001467635
RP11-556I13.1	SEPT6	0.882604172	0.019863709
RP11-126K1.8	TPT1	0.958061884	0.002601328

RP3-438O4.4	TPT1	0.962021393	0.002136172
RP11-498J9.2	STK17B	0.891762837	0.016938911
RP11-34P13.14	STK17B	0.886857425	0.018477681
RP11-93O14.2	STK17B	0.830640742	0.040595009
NUP50-AS1	TPT1	0.964170689	0.001902612
RP11-78A19.3	STK17B	0.849322863	0.032344943
Z69720.3	STK17B	0.852809124	0.030903275
PSMD5-AS1	TPT1	0.996805475	1.53E-05
TOPORS-AS1	TPT1	0.953882425	0.003141204
AC087294.2	TPT1	0.983427177	0.000409712
AP001062.8	TPT1	0.972692523	0.001108366
RP11-455F5.3	TPT1	0.988685396	0.000191306
RP11-326C3.2	TPT1	0.997523552	9.19E-06
CCDC144NL-AS1	ARHGAP9	-0.901359982	0.014114903
AP006621.8	TPT1	0.998895301	1.83E-06
RP11-126K1.8	ARHGAP9	0.86268448	0.026988748
RP3-438O4.4	ARHGAP9	0.885499515	0.01891497
NUP50-AS1	ARHGAP9	0.879670717	0.020847573
JHDM1D-AS1	TPT1	0.985769543	0.000302318
TOPORS-AS1	ARHGAP9	0.898544832	0.01491758
RP11-20I23.6	TPT1	0.990982119	0.000121617
AP001062.8	ARHGAP9	0.891488905	0.017023146
RP11-160E2.19	TPT1	0.980455223	0.000569264
AC005786.7	TPT1	0.976600175	0.000814921
AC005944.2	TPT1	0.97646885	0.000824058
CTB-191K22.5	TPT1	0.958035134	0.002604624
RP11-20I23.8	TPT1	0.988466088	0.00019878
CDC37L1-AS1	TPT1	0.966756019	0.001639373
RP5-1142A6.10	TPT1	0.985354418	0.000320169
RP11-556I13.1	TPT1	0.985674565	0.000306357
CTB-191K22.5	ARHGAP9	0.866229804	0.025644825
AC011558.5	TPX2	-0.96275404	0.002055057
CDC37L1-AS1	ARHGAP9	0.895128945	0.015920224
CTA-315H11.2	TRAF3IP3	-0.967326776	0.001583869
RP11-126K1.8	TRAF3IP3	0.950561679	0.003605804
RP3-438O4.4	TRAF3IP3	0.977094625	0.000780976
CCDC144NL-AS1	MKRN1	-0.867357718	0.02522411
NUP50-AS1	TRAF3IP3	0.963318404	0.001993631
PSMD5-AS1	TRAF3IP3	0.985674012	0.000306381
TOPORS-AS1	TRAF3IP3	0.967939046	0.001525379
AC087294.2	TRAF3IP3	0.988946941	0.00018258
AP001062.8	TRAF3IP3	0.974067215	0.001000044
RP11-455F5.3	TRAF3IP3	0.991788087	0.000100876
RP11-326C3.2	TRAF3IP3	0.998261433	4.53E-06
AP006621.8	TRAF3IP3	0.990004764	0.000149358
JHDM1D-AS1	TRAF3IP3	0.993676403	5.99E-05
RP11-20I23.6	TRAF3IP3	0.995245482	3.39E-05
RP11-160E2.19	TRAF3IP3	0.972378724	0.001133866
AC005786.7	TRAF3IP3	0.982668871	0.000447949
AC005944.2	TRAF3IP3	0.960661162	0.002290877
CTB-191K22.5	TRAF3IP3	0.954794084	0.003019171
RP11-20I23.8	TRAF3IP3	0.994478878	4.56E-05
CDC37L1-AS1	TRAF3IP3	0.982254967	0.000469535
RP5-1142A6.10	TRAF3IP3	0.987468668	0.000234567
RP11-556I13.1	TRAF3IP3	0.993704392	5.93E-05
AC024028.1	TRAF4	0.970840802	0.001262992
RP11-498J9.2	TRAF4	0.998011497	5.93E-06
LL21NC02-21A1.1	MKRN1	0.81889933	0.046226359
RP11-34P13.14	TRAF4	0.976091083	0.000850621
RP11-93O14.2	TRAF4	0.972935529	0.001088816
RP11-485G7.6	TRAF4	0.954481983	0.003060681
RP11-473M20.11	TRAF4	0.924098907	0.008422832
RP11-78A19.3	TRAF4	0.971124219	0.001238678

Z69720.3	TRAF4	0.986429427	0.000274991
CTD-2139B15.2	TRAIP	0.941428552	0.005045454
RP11-473M20.11	GGT1	0.912682703	0.011103599
CTA-315H11.2	TRAK2	-0.923075152	0.00864855
RP11-680G24.6	GGT1	0.819857003	0.045754294
LA16c-359F1.1	GGT1	0.882955442	0.019747421
RP11-66D17.5	TRAK2	0.960961086	0.002256307
RP11-126K1.8	TRAK2	0.991211068	0.000115529
RP11-767C1.1	UROD	0.902954002	0.013669903
CTC-1337H24.3	UROD	0.892612458	0.016678925
RP3-438O4.4	TRAK2	0.985777499	0.000301981
RP11-498J9.2	C5AR1	0.886249585	0.018672818
RP11-34P13.14	C5AR1	0.855720601	0.029723118
RP11-93O14.2	C5AR1	0.81374982	0.048803266
NUP50-AS1	TRAK2	0.986469861	0.000273359
RP11-78A19.3	C5AR1	0.829008519	0.041357398
LLNLR-284B4.1	C5AR1	0.830373075	0.040719578
Z69720.3	C5AR1	0.83712205	0.037633327
PSMD5-AS1	TRAK2	0.971854472	0.001177108
TOPORS-AS1	TRAK2	0.962331825	0.002101614
AC087294.2	TRAK2	0.99189538	9.83E-05
RP11-93O14.2	FCGR2C	0.903512236	0.013515688
RP11-485G7.6	FCGR2C	0.866344801	0.025601779
AP001062.8	TRAK2	0.994435585	4.64E-05
RP11-78A19.3	FCGR2C	0.915495882	0.010409699
RP11-455F5.3	TRAK2	0.991824326	1.00E-04
CCDC144NL-AS1	SIGIRR	-0.878117265	0.021377793
RP11-326C3.2	TRAK2	0.96539546	0.001775492
AP006621.8	TRAK2	0.972035609	0.001162077
JHDM1D-AS1	TRAK2	0.988849568	0.000185805
RP11-20I23.6	TRAK2	0.978617578	0.000680924
AC005786.7	TRAK2	0.97605537	0.000853154
AC005944.2	TRAK2	0.956150882	0.002841962
CTB-191K22.5	TRAK2	0.98221367	0.000471717
RP11-20I23.8	TRAK2	0.987982516	0.000215762
CDC37L1-AS1	TRAK2	0.98295565	0.000433289
RP5-1142A6.10	TRAK2	0.96197491	0.002141371
RP11-556I13.1	TRAK2	0.988728499	0.000189854
RP11-66D17.5	TRAPPC5	0.971509826	0.001205972
RP11-126K1.8	TRAPPC5	0.96661051	0.001653675
RP3-438O4.4	TRAPPC5	0.930674073	0.007042533
NUP50-AS1	TRAPPC5	0.975318628	0.000906238
PSMD5-AS1	TRAPPC5	0.960845955	0.002269547
TOPORS-AS1	TRAPPC5	0.92528748	0.00816442
AC087294.2	TRAPPC5	0.94846373	0.003915541
AP001062.8	TRAPPC5	0.963633758	0.001959708
RP11-455F5.3	TRAPPC5	0.947676549	0.004034991
RP11-326C3.2	TRAPPC5	0.9222607	0.008830193
AP006621.8	TRAPPC5	0.949153205	0.003812365
AC011558.5	SIGIRR	0.876736591	0.021854378
CCDC144NL-AS1	CEBPB	-0.824892219	0.043309461
CTA-315H11.2	CEBPB	-0.873001975	0.023168604
RP11-77G23.2	CEBPB	-0.823174339	0.04413654
RP11-66D17.5	CEBPB	0.841228072	0.035811584
RP11-126K1.8	CEBPB	0.888291126	0.018021308
RP3-438O4.4	CEBPB	0.839284642	0.036668547
NUP50-AS1	CEBPB	0.890547246	0.017314241
JHDM1D-AS1	TRAPPC5	0.935739002	0.006061532
TOPORS-AS1	CEBPB	0.855368146	0.029864828
AC087294.2	CEBPB	0.88619947	0.018688951
AP001062.8	CEBPB	0.886101772	0.01872042
RP11-455F5.3	CEBPB	0.896707046	0.015453113
RP11-20I23.6	TRAPPC5	0.945151569	0.004430024

AC005786.7	TRAPPC5	0.955041363	0.002986482
JHDM1D-AS1	CEBPB	0.88079012	0.020469448
RP11-20I23.6	CEBPB	0.905498578	0.012973805
AC005944.2	TRAPPC5	0.9906139	0.000131735
AC005786.7	CEBPB	0.892191509	0.016807495
CTB-191K22.5	TRAPPC5	0.980831887	0.000547603
CTB-191K22.5	CEBPB	0.887670461	0.018218205
RP11-20I23.8	CEBPB	0.890009015	0.017481689
CDC37L1-AS1	CEBPB	0.840857688	0.035974172
RP11-20I23.8	TRAPPC5	0.940962748	0.005125212
RP11-556I13.1	CEBPB	0.880383341	0.020606472
AC011558.5	CEBPB	0.878574697	0.021221003
CCDC144NL-AS1	CYB5R3	-0.833943347	0.039072727
CDC37L1-AS1	TRAPPC5	0.927762347	0.00763894
LL21NC02-21A1.1	TRAPPC5	0.919168079	0.009536629
RP5-1142A6.10	TRAPPC5	0.94833516	0.00393493
RP11-556I13.1	TRAPPC5	0.935407646	0.006123513
CTA-315H11.2	TRAT1	-0.965011739	0.001814852
RP11-66D17.5	TRAT1	0.918718662	0.009641485
RP11-126K1.8	TRAT1	0.954699801	0.003031682
RP3-438O4.4	TRAT1	0.974726673	0.00095004
NUP50-AS1	TRAT1	0.966267433	0.001687637
PSMD5-AS1	TRAT1	0.989893681	0.00015269
TOPORS-AS1	TRAT1	0.968309426	0.001490525
AC087294.2	TRAT1	0.98922244	0.000173608
AP001062.8	TRAT1	0.975881814	0.000865516
RP11-455F5.3	TRAT1	0.992597907	8.20E-05
RP11-326C3.2	TRAT1	0.999458496	4.40E-07
AP006621.8	TRAT1	0.993582745	6.16E-05
JHDM1D-AS1	TRAT1	0.992943217	7.45E-05
RP11-20I23.6	TRAT1	0.99602147	2.37E-05
RP11-160E2.19	TRAT1	0.975495349	0.00089336
AC005786.7	TRAT1	0.983716056	0.000395591
LL21NC02-21A1.1	CYB5R3	0.875080808	0.022432537
AC005944.2	TRAT1	0.966433254	0.001671179
CTB-191K22.5	TRAT1	0.957531941	0.002667008
RP11-118G23.2	HK1	-0.834749908	0.038705098
RP11-20I23.8	TRAT1	0.994297959	4.87E-05
CDC37L1-AS1	TRAT1	0.978903967	0.00066287
RP5-1142A6.10	TRAT1	0.989728056	0.000157727
RP11-556I13.1	TRAT1	0.992933073	7.47E-05
PSMD5-AS1	HK1	0.890422296	0.017353045
TOPORS-AS1	HK1	0.883247413	0.019651013
AC087294.2	HK1	0.916894287	0.010072852
CTA-315H11.2	TRBC2	-0.963421325	0.001982528
RP11-455F5.3	HK1	0.910295767	0.011709356
RP11-326C3.2	HK1	0.842831029	0.035111928
AP006621.8	HK1	0.876978841	0.021770394
JHDM1D-AS1	HK1	0.899337166	0.014689501
RP11-20I23.6	HK1	0.886706508	0.018526038
AC005786.7	HK1	0.907301747	0.012491173
RP11-66D17.5	TRBC2	0.922357413	0.008808528
RP11-126K1.8	TRBC2	0.956661206	0.002776676
RP11-20I23.8	HK1	0.899793118	0.014559019
CDC37L1-AS1	HK1	0.90945912	0.011925365
RP3-438O4.4	TRBC2	0.97746434	0.000756062
RP5-1142A6.10	HK1	0.871874114	0.023572691
RP11-556I13.1	HK1	0.898994701	0.014787874
CCDC144NL-AS1	PNPLA2	-0.87584138	0.022166069
NUP50-AS1	TRBC2	0.968474317	0.001475137
PSMD5-AS1	TRBC2	0.98940208	0.000167879
TOPORS-AS1	TRBC2	0.97049014	0.001293399
AC087294.2	TRBC2	0.990815699	0.00012614

AP001062.8	TRBC2	0.977925572	0.000725542
RP11-455F5.3	TRBC2	0.993779573	5.79E-05
RP11-326C3.2	TRBC2	0.998972517	1.58E-06
AP006621.8	TRBC2	0.992972446	7.39E-05
JHDM1D-AS1	TRBC2	0.99433227	4.81E-05
RP11-20I23.6	TRBC2	0.996794299	1.54E-05
RP11-160E2.19	TRBC2	0.972887769	0.001092645
AC005786.7	TRBC2	0.985297531	0.000322655
AC005944.2	TRBC2	0.966545147	0.001660119
CTB-191K22.5	TRBC2	0.959844326	0.002386342
RP11-20I23.8	TRBC2	0.995499544	3.03E-05
CDC37L1-AS1	TRBC2	0.981393095	0.000516104
RP5-1142A6.10	TRBC2	0.990156388	0.000144868
RP11-556I13.1	TRBC2	0.994326601	4.82E-05
AC024028.1	TREM1	0.946822788	0.004166536
RP11-473M20.11	TREM1	0.985301682	0.000322473
LL21NC02-21A1.1	PNPLA2	0.824732393	0.043386102
RP11-770G2.2	TREM2	0.932910149	0.006600585
AC024028.1	TREML1	0.983710052	0.000395882
AC011558.5	PNPLA2	0.819264338	0.04604617
CTA-315H11.2	AMPD2	-0.846060455	0.033722093
CTD-2541M15.3	AMPD2	-0.837341971	0.037534678
PSMD5-AS1	AMPD2	0.823115805	0.04416485
RP11-326C3.2	AMPD2	0.85551452	0.029805937
AP006621.8	AMPD2	0.832946933	0.039529138
RP11-473M20.11	TREML1	0.999178933	1.01E-06
RP5-1142A6.10	AMPD2	0.828308352	0.041686468
CTA-315H11.2	TREML3	-0.969071012	0.00142011
CCDC144NL-AS1	FMNL1	-0.845908976	0.033786694
CTA-315H11.2	FMNL1	-0.882659744	0.01984529
CTD-2139B15.2	FMNL1	-0.812604383	0.049385279
PSMD5-AS1	FMNL1	0.839701124	0.036484096
RP11-326C3.2	FMNL1	0.871934659	0.023550915
AP006621.8	FMNL1	0.85151368	0.031435354
RP11-20I23.6	FMNL1	0.818956573	0.046198079
RP11-126K1.8	TREML3	0.941795805	0.004983002
RP5-1142A6.10	FMNL1	0.831220629	0.040325749
RP3-438O4.4	TREML3	0.961695799	0.002172718
NUP50-AS1	TREML3	0.953783548	0.003154582
PSMD5-AS1	TREML3	0.988460434	0.000198974
RP11-34P13.14	RASSF2	0.903427273	0.013539105
RP11-93O14.2	RASSF2	0.858859617	0.028475111
RP11-485G7.6	RASSF2	0.819714334	0.045824477
TOPORS-AS1	TREML3	0.958751484	0.002517069
RP11-78A19.3	RASSF2	0.873518492	0.022984659
Z69720.3	RASSF2	0.882276059	0.019972626
AC024028.1	ZFP36L1	0.855977467	0.029620042
AC087294.2	TREML3	0.980221135	0.000582936
CTD-2139B15.2	ZFP36L1	-0.815617984	0.047860899
AC011558.5	ZFP36L1	0.907702379	0.012385142
CCDC144NL-AS1	ARIH2	-0.910459974	0.011667185
CTB-31O20.6	ARIH2	-0.841281346	0.035788227
AP001062.8	TREML3	0.964167176	0.001902982
RP11-66D17.5	ARIH2	0.904128191	0.013346507
RP11-455F5.3	TREML3	0.985130787	0.000329997
RP11-326C3.2	TREML3	0.999785374	6.91E-08
AP006621.8	TREML3	0.992959547	7.42E-05
JHDM1D-AS1	TREML3	0.985167006	0.000328395
TOPORS-AS1	ARIH2	0.901662413	0.014029946
RP11-20I23.6	TREML3	0.991057988	0.000119582
RP11-160E2.19	TREML3	0.985171135	0.000328212
AC005786.7	TREML3	0.975487193	0.000893952
AC005944.2	TREML3	0.961967944	0.00214215

CTB-191K22.5	TREML3	0.944039361	0.004609767
RP11-20I23.8	TREML3	0.987197879	0.000244792
CDC37L1-AS1	TREML3	0.966981704	0.001617313
RP5-1142A6.10	TREML3	0.986623038	0.000267218
RP11-556I13.1	TREML3	0.98515378	0.000328979
AC024028.1	TREML4	0.963900503	0.001931239
RP11-498J9.2	TREML4	0.999982671	4.50E-10
RMRP	ARIH2	0.815594664	0.04787261
RP11-34P13.14	TREML4	0.977853989	0.000730238
RP11-93O14.2	TREML4	0.983076102	0.000427204
RP11-485G7.6	TREML4	0.96587333	0.001727072
RP11-78A19.3	TREML4	0.983153983	0.000423292
AC024028.1	DOCK2	0.852297181	0.031113033
RP11-473M20.11	DOCK2	0.906770791	0.012632369
CTD-2139B15.2	DOCK2	-0.882082991	0.020036848
RP11-91K8.5	DOCK2	-0.844906574	0.03421565
AC011558.5	DOCK2	0.901780876	0.013996735
Z69720.3	TREML4	0.986149776	0.000286415
RP11-498J9.2	GSN	0.84744963	0.033132376
RP11-34P13.14	GSN	0.828713457	0.041495925
AC024028.1	TRGC2	0.937303856	0.005772987
LLNLR-284B4.1	GSN	0.822214611	0.044601778
CCDC144NL-AS1	LENG8	-0.891103721	0.017141932
RP11-473M20.11	TRGC2	0.980207096	0.000583762
AC024028.1	TRIB1	0.962946205	0.002034038
RP11-498J9.2	TRIB1	0.988382306	0.000201672
RP11-34P13.14	TRIB1	0.996771654	1.56E-05
RP11-93O14.2	TRIB1	0.985506116	0.000313587
RP11-485G7.6	TRIB1	0.928799058	0.007423882
RP11-78A19.3	TRIB1	0.983237971	0.000419094
Z69720.3	TRIB1	0.982403527	0.00046173
CTA-315H11.2	TRIM15	-0.929725959	0.007234139
RP11-66D17.5	TRIM15	0.962730033	0.002057691
RP11-126K1.8	TRIM15	0.990210407	0.000143285
RP3-438O4.4	TRIM15	0.989363707	0.000169094
NUP50-AS1	TRIM15	0.989722722	0.000157891
PSMD5-AS1	TRIM15	0.978803966	0.000669146
TOPORS-AS1	TRIM15	0.969505594	0.001380685
AC087294.2	TRIM15	0.996169961	2.20E-05
AP001062.8	TRIM15	0.996833973	1.50E-05
RP11-455F5.3	TRIM15	0.996172733	2.19E-05
RP11-326C3.2	TRIM15	0.973967035	0.001007751
AP006621.8	TRIM15	0.978942495	0.000660459
JHDM1D-AS1	TRIM15	0.993674445	5.99E-05
RP11-20I23.6	TRIM15	0.986184294	0.000284992
AC011558.5	LENG8	0.848035901	0.032884971
RP11-473M20.11	WIPF1	0.863145731	0.026812058
RP11-160E2.19	WIPF1	0.876922839	0.021789796
AC005786.7	TRIM15	0.983452693	0.000408455
CCDC144NL-AS1	CYFIP2	-0.898888181	0.014818536
AC005944.2	TRIM15	0.964538526	0.001863978
RP11-126K1.8	CYFIP2	0.83835257	0.037082923
RP3-438O4.4	CYFIP2	0.853847457	0.030479898
NUP50-AS1	CYFIP2	0.853051282	0.030804289
CTB-191K22.5	TRIM15	0.985102398	0.000331255
TOPORS-AS1	CYFIP2	0.869372865	0.024480698
AC087294.2	CYFIP2	0.89250331	0.016712217
AP001062.8	CYFIP2	0.864984418	0.026113198
RP11-455F5.3	CYFIP2	0.904687145	0.013193874
RP11-20I23.8	TRIM15	0.993284596	6.75E-05
CDC37L1-AS1	TRIM15	0.987499136	0.000233431
JHDM1D-AS1	CYFIP2	0.902363366	0.013833988
RP5-1142A6.10	TRIM15	0.972080139	0.001158396

RP11-556I13.1	TRIM15	0.99357041	6.19E-05
AC005786.7	CYFIP2	0.893720947	0.016342632
AC005944.2	CYFIP2	0.904719919	0.01318495
CTB-191K22.5	CYFIP2	0.839825412	0.036429137
RP11-20I23.8	CYFIP2	0.90820342	0.012253151
CDC37L1-AS1	CYFIP2	0.864455727	0.026313248
AC024028.1	TRIM22	0.955687579	0.00290188
RP11-556I13.1	CYFIP2	0.902315533	0.013847317
RP11-473M20.11	TRIM22	0.989859316	0.000153729
RP5-1033H22.2	TRIM29	0.945779159	0.004330148
RP11-498J9.2	FES	0.838394932	0.037064042
RP11-34P13.14	FES	0.81610294	0.047617666
RP11-298J23.8	TRIM29	0.944119218	0.004596744
LLNLR-284B4.1	FES	0.842298691	0.035343562
AC011558.5	FES	0.818205958	0.046569548
CCDC144NL-AS1	RASGRP2	-0.89978955	0.014560038
RP11-165D6.1	TRIM29	0.951535176	0.003466341
RP11-66D17.5	RASGRP2	0.902937463	0.013674484
AC024028.1	TRIM3	0.995986997	2.41E-05
RP11-498J9.2	TRIM3	0.95551355	0.002924546
RP11-34P13.14	TRIM3	0.964256931	0.001893518
RP11-473M20.11	TRIM3	0.980275119	0.000579769
Z69720.3	TRIM3	0.942397431	0.00488152
CTA-315H11.2	TRIM31	-0.93907026	0.005455551
RP11-66D17.5	TRIM31	0.96175879	0.002165623
RP11-126K1.8	TRIM31	0.980432407	0.00057059
RP3-438O4.4	TRIM31	0.993928169	5.52E-05
NUP50-AS1	TRIM31	0.990140926	0.000145323
PSMD5-AS1	TRIM31	0.984976284	0.000336873
TOPORS-AS1	TRIM31	0.979410337	0.000631537
AC087294.2	TRIM31	0.999835726	4.05E-08
AP001062.8	TRIM31	0.995830126	2.60E-05
RP11-455F5.3	TRIM31	0.999385542	5.66E-07
RP11-326C3.2	TRIM31	0.985111762	0.000330839
AP006621.8	TRIM31	0.985186845	0.000327519
JHDM1D-AS1	TRIM31	0.999006674	1.48E-06
RP11-20I23.6	TRIM31	0.996243034	2.11E-05
RP11-160E2.19	TRIM31	0.939305133	0.005414004
AC011558.5	RASGRP2	0.888972553	0.017806318
AC005786.7	TRIM31	0.993535504	6.25E-05
AC005944.2	TRIM31	0.973921031	0.001011301
RP11-498J9.2	PTP4A3	0.854844863	0.03007581
RP11-34P13.14	PTP4A3	0.842784699	0.035132059
CTB-191K22.5	TRIM31	0.985337076	0.000320926
CCDC144NL-AS1	ARHGAP30	-0.874584292	0.022607311
CTA-315H11.2	ARHGAP30	-0.908274271	0.012234542
PSMD5-AS1	ARHGAP30	0.875091514	0.022428775
RP11-455F5.3	ARHGAP30	0.825482115	0.043027137
RP11-326C3.2	ARHGAP30	0.900214262	0.014438997
AP006621.8	ARHGAP30	0.885488223	0.018918627
JHDM1D-AS1	ARHGAP30	0.824472241	0.043510987
RP11-20I23.6	ARHGAP30	0.851117677	0.03159886
RP11-20I23.8	TRIM31	0.999244123	8.57E-07
AC005944.2	ARHGAP30	0.828334027	0.04167438
RP11-20I23.8	ARHGAP30	0.831406273	0.040239726
RP5-1142A6.10	ARHGAP30	0.860520969	0.02782486
RP11-556I13.1	ARHGAP30	0.82447007	0.043512029
CDC37L1-AS1	TRIM31	0.994835127	3.99E-05
CTD-2139B15.2	VASP	-0.817295413	0.047022021
CTD-2541M15.3	VASP	-0.832111262	0.039913834
RP11-91K8.5	VASP	-0.857150188	0.029151602
RP11-160E2.19	VASP	0.896073668	0.015639786
RP5-1142A6.10	TRIM31	0.986571293	0.000269284

CCDC144NL-AS1	CD97	-0.87639034	0.021974685
RP11-556I13.1	TRIM31	0.998966047	1.60E-06
RP3-438O4.4	CD97	0.811934658	0.049727058
PSMD5-AS1	CD97	0.902097785	0.013908077
TOPORS-AS1	CD97	0.828444155	0.041622547
AC087294.2	CD97	0.850201102	0.031978843
AP001062.8	CD97	0.813885288	0.048734645
RP11-455F5.3	CD97	0.863333089	0.026740445
RP5-1033H22.2	TRIM67	0.96732599	0.001583945
AP006621.8	CD97	0.91186476	0.011309422
JHDM1D-AS1	CD97	0.864674784	0.026230271
RP11-20I23.6	CD97	0.88825797	0.018031801
RP11-21J18.1	TRIM67	0.9674692	0.001570166
AC005786.7	CD97	0.853031792	0.03081225
AC005944.2	CD97	0.859609918	0.028180562
RP11-20I23.8	CD97	0.870482165	0.024075982
CDC37L1-AS1	CD97	0.827285437	0.042169415
RP5-1142A6.10	CD97	0.89594605	0.015677529
RP11-556I13.1	CD97	0.8647286	0.026209906
RP11-298J23.8	TRIM67	0.959996719	0.002368386
RP11-165D6.1	TRIM67	0.981905988	0.000488128
RP11-498J9.2	RHOH	0.871500723	0.023707202
RP11-34P13.14	RHOH	0.862311309	0.0271321
AC024028.1	TRIO	0.94548732	0.004376453
RP11-78A19.3	RHOH	0.817053449	0.047142601
Z69720.3	RHOH	0.830092537	0.040850328
RP11-473M20.11	TRIO	0.970706351	0.001274608
RMRP	TRIP10	-0.935907391	0.006030152
CTA-315H11.2	TRIP12	-0.968496481	0.001473074
RP11-93O14.2	IDS	0.87985611	0.02078472
RP11-485G7.6	IDS	0.829203883	0.041265797
RP11-126K1.8	TRIP12	0.950461704	0.00362028
RP11-78A19.3	IDS	0.890245043	0.017408163
Z69720.3	IDS	0.908416517	0.012197222
RP3-438O4.4	TRIP12	0.979407419	0.000631715
NUP50-AS1	TRIP12	0.95330166	0.003220184
PSMD5-AS1	TRIP12	0.96638843	0.00167562
TOPORS-AS1	TRIP12	0.952426435	0.003341031
AC087294.2	TRIP12	0.98429951	0.000367823
AP001062.8	TRIP12	0.970017865	0.001334917
RP11-455F5.3	TRIP12	0.986245475	0.000282479
RP11-680G24.6	DUSP6	0.836037076	0.038121784
LA16c-359F1.1	DUSP6	0.888001315	0.018113119
RP11-326C3.2	TRIP12	0.981937074	0.000486457
AP006621.8	TRIP12	0.972705502	0.001107317
JHDM1D-AS1	TRIP12	0.990476669	0.000135609
RP11-20I23.6	TRIP12	0.980863368	0.000545812
RP11-160E2.19	TRIP12	0.935868799	0.006037337
AC005786.7	TRIP12	0.966461414	0.001668392
AC005944.2	TRIP12	0.931947259	0.006789181
CTB-191K22.5	TRIP12	0.946499588	0.004216874
LA16c-359F1.1	LTF	0.844957742	0.034193692
RP11-20I23.8	TRIP12	0.988742676	0.000189378
CDC37L1-AS1	TRIP12	0.985045507	0.000333783
RP5-1142A6.10	TRIP12	0.961902273	0.002149507
RP11-556I13.1	TRIP12	0.990547363	0.000133606
RP11-34P13.14	TRMU	-0.973025667	0.001081609
RP11-93O14.2	TRMU	-0.924374471	0.008362571
RP11-78A19.3	TRMU	-0.92249832	0.008777008
Z69720.3	TRMU	-0.921734817	0.008948454
LA16c-359F1.1	NEK6	0.84984082	0.032128791
AC024028.1	TRO	0.969537895	0.001377776
RP11-498J9.2	TRO	0.997520173	9.22E-06

RP11-34P13.14	TRO	0.986873491	0.000257327
CCDC144NL-AS1	SLC25A37	-0.865306013	0.025991864
RP11-93O14.2	TRO	0.986627936	0.000267023
RP11-485G7.6	TRO	0.951449166	0.003478554
RP11-473M20.11	TRO	0.921510138	0.008999213
RP11-78A19.3	TRO	0.986469291	0.000273382
Z69720.3	TRO	0.982972447	0.000432438
RP3-337H4.8	TROAP	0.934364857	0.006320581
CTD-2139B15.2	TROAP	0.926611047	0.007881273
CTA-315H11.2	TRPV2	-0.944332416	0.004562066
RP11-326C3.2	TRPV2	0.940866567	0.005141757
RP11-160E2.19	TRPV2	0.971079864	0.001242467
AC011558.5	TRPV2	0.951808412	0.003427683
RP11-77G23.2	TRUB1	0.944669879	0.004507439
RP11-498J9.2	TSC22D2	0.948944162	0.003843504
RP11-34P13.14	TSC22D2	0.932303715	0.006719062
RP11-93O14.2	TSC22D2	0.980254073	0.000581003
RP11-485G7.6	TSC22D2	0.971703788	0.001189685
RP11-78A19.3	TSC22D2	0.976028822	0.000855039
RP11-680G24.6	TSC22D2	0.93559943	0.006087602
LA16c-359F1.1	TSC22D2	0.979759591	0.000610365
Z69720.3	TSC22D2	0.947046322	0.004131895
LL21NC02-21A1.1	SLC25A37	0.822952716	0.044243772
CTA-315H11.2	TSGA10	-0.929037972	0.007374746
RP11-66D17.5	TSGA10	0.970966634	0.001252168
RP11-473M20.11	IL4R	0.877765488	0.021498744
CTD-2139B15.2	IL4R	-0.866094033	0.025695691
RP11-91K8.5	IL4R	-0.823661066	0.043901463
RP11-160E2.19	IL4R	0.837250164	0.037575845
RP11-126K1.8	TSGA10	0.986507847	0.000271829
RP3-438O4.4	TSGA10	0.994997712	3.75E-05
NUP50-AS1	TSGA10	0.993233607	6.85E-05
RP11-34P13.14	TBXAS1	0.908897318	0.012071486
PSMD5-AS1	TSGA10	0.979632711	0.000618015
TOPORS-AS1	TSGA10	0.975592293	0.000886334
RP11-473M20.11	TBXAS1	0.870842865	0.023945077
AC087294.2	TSGA10	0.998716261	2.47E-06
LA16c-359F1.1	TBXAS1	0.836668953	0.037836953
AP001062.8	TSGA10	0.998237819	4.66E-06
CCDC144NL-AS1	MAF1	-0.841572345	0.035660769
RP11-455F5.3	TSGA10	0.997341482	1.06E-05
RP11-326C3.2	TSGA10	0.975538763	0.00089021
AP006621.8	TSGA10	0.978728107	0.000673927
JHDM1D-AS1	TSGA10	0.996371503	1.97E-05
RP11-20I23.6	TSGA10	0.990796162	0.000126676
RP11-160E2.19	TSGA10	0.92173995	0.008947296
AC005786.7	TSGA10	0.990458191	0.000136135
AC005944.2	TSGA10	0.97175981	0.001185002
CTB-191K22.5	TSGA10	0.990282825	0.000141176
RP11-20I23.8	TSGA10	0.996194435	2.17E-05
CDC37L1-AS1	TSGA10	0.994959306	3.80E-05
RP5-1142A6.10	TSGA10	0.978839767	0.000666896
RP11-556I13.1	TSGA10	0.996309724	2.04E-05
CTD-2541M15.3	TSPAN13	0.94793848	0.003995049
AC024028.1	TSPAN15	0.954580137	0.003047596
RP11-498J9.2	TSPAN15	0.998557344	3.12E-06
RP11-34P13.14	TSPAN15	0.967594719	0.001558139
RP11-93O14.2	TSPAN15	0.979992703	0.000596434
RP11-485G7.6	TSPAN15	0.975241685	0.000911873
RP11-78A19.3	TSPAN15	0.979903126	0.000601768
LL21NC02-21A1.1	MAF1	0.858056674	0.028791931
Z69720.3	TSPAN15	0.983779147	0.00039254
CTA-315H11.2	TSPAN32	-0.945289844	0.004407922

CCDC144NL-AS1	BCL2L1	-0.863853762	0.026541907
RP11-66D17.5	TSPAN32	0.954729768	0.003027703
RP11-126K1.8	TSPAN32	0.974371238	0.000976833
RP3-438O4.4	TSPAN32	0.991583064	0.000105969
NUP50-AS1	TSPAN32	0.986432682	0.000274859
PSMD5-AS1	TSPAN32	0.987266528	0.00024218
TOPORS-AS1	TSPAN32	0.979411914	0.000631441
AC087294.2	TSPAN32	0.998816825	2.10E-06
AP001062.8	TSPAN32	0.992403718	8.63E-05
RP11-455F5.3	TSPAN32	0.998916327	1.76E-06
RP11-326C3.2	TSPAN32	0.98971792	0.000158038
AP006621.8	TSPAN32	0.987993897	0.000215354
JHDM1D-AS1	TSPAN32	0.999027968	1.42E-06
RP11-20I23.6	TSPAN32	0.998251734	4.58E-06
RP11-160E2.19	TSPAN32	0.950045569	0.003680839
AC005786.7	TSPAN32	0.993987332	5.41E-05
AC005944.2	TSPAN32	0.975050977	0.000925916
CTB-191K22.5	TSPAN32	0.981054772	0.000534983
RP11-20I23.8	TSPAN32	0.999610793	2.27E-07
CDC37L1-AS1	TSPAN32	0.993627953	6.08E-05
RP5-1142A6.10	TSPAN32	0.990075509	0.000147255
LL21NC02-21A1.1	BCL2L1	0.824089794	0.043694883
RP11-556I13.1	TSPAN32	0.999003695	1.49E-06
CTA-315H11.2	TSPAN5	-0.932622114	0.006656729
RP11-66D17.5	TSPAN5	0.962627124	0.002068998
RP11-126K1.8	TSPAN5	0.986967535	0.000253661
RP3-438O4.4	TSPAN5	0.992875608	7.60E-05
NUP50-AS1	TSPAN5	0.989858765	0.000153745
PSMD5-AS1	TSPAN5	0.979143557	0.000647951
TOPORS-AS1	TSPAN5	0.97403476	0.001002538
AC087294.2	TSPAN5	0.998154938	5.10E-06
AP001062.8	TSPAN5	0.997011226	1.34E-05
RP11-455F5.3	TSPAN5	0.997736152	7.68E-06
RP11-326C3.2	TSPAN5	0.977249041	0.000770521
AP006621.8	TSPAN5	0.979645181	0.000617261
JHDM1D-AS1	TSPAN5	0.996455785	1.88E-05
RP11-20I23.6	TSPAN5	0.989582912	0.000162208
RP11-160E2.19	TSPAN5	0.921454105	0.009011894
AC005786.7	TSPAN5	0.986999162	0.000252434
AC005944.2	TSPAN5	0.964875172	0.001828963
CTB-191K22.5	TSPAN5	0.984882932	0.000341061
RP11-20I23.8	TSPAN5	0.995950739	2.46E-05
CDC37L1-AS1	TSPAN5	0.991819663	0.000100103
RP5-1142A6.10	TSPAN5	0.976193535	0.000843375
RP11-556I13.1	TSPAN5	0.996385097	1.96E-05
AC024028.1	TSPYL2	0.988170526	0.000209077
RP11-498J9.2	TSPYL2	0.984987981	0.00033635
RP11-34P13.14	TSPYL2	0.979258899	0.000640829
RP11-34P13.14	MAPK3	0.873481369	0.022997856
RP11-93O14.2	MAPK3	0.874751757	0.022548291
RP11-485G7.6	MAPK3	0.900726946	0.014293534
RP11-93O14.2	TSPYL2	0.962218771	0.002114167
RP11-78A19.3	MAPK3	0.88222371	0.019990029
LLNLR-284B4.1	MAPK3	0.834407458	0.038860987
Z69720.3	MAPK3	0.898675409	0.014879876
RP11-485G7.6	TSPYL2	0.919622686	0.00943113
RP11-498J9.2	ST6GAL1	0.817350545	0.046994567
RP11-34P13.14	ST6GAL1	0.826321328	0.042626976
RP11-473M20.11	TSPYL2	0.958966538	0.002491073
AC011558.5	ST6GAL1	0.826412689	0.042583517
CCDC144NL-AS1	HMHA1	-0.904987623	0.013112172
RP11-78A19.3	TSPYL2	0.969956837	0.001340329
RP11-66D17.5	HMHA1	0.827518697	0.042059058

RP11-126K1.8	HMHA1	0.882383858	0.01993681
RP3-438O4.4	HMHA1	0.906620679	0.012672427
NUP50-AS1	HMHA1	0.898538479	0.014919415
Z69720.3	TSPYL2	0.963852829	0.001936312
TOPORS-AS1	HMHA1	0.914565151	0.010636871
RP11-66D17.5	TSSC4	0.978539375	0.000685896
AP001062.8	HMHA1	0.910562701	0.01164084
RP11-126K1.8	TSSC4	0.954044074	0.003119392
RP3-438O4.4	TSSC4	0.932468897	0.006686689
NUP50-AS1	TSSC4	0.974039237	0.001002194
PSMD5-AS1	TSSC4	0.943709852	0.004663691
TOPORS-AS1	TSSC4	0.935339708	0.006136259
AC087294.2	TSSC4	0.942770704	0.00481907
AP001062.8	TSSC4	0.958362326	0.00256445
RP11-455F5.3	TSSC4	0.9387897	0.005505383
CTB-191K22.5	HMHA1	0.886266753	0.018667293
AP006621.8	TSSC4	0.931089574	0.006959355
CDC37L1-AS1	HMHA1	0.915975742	0.010293505
JHDM1D-AS1	TSSC4	0.929022022	0.007378021
RP11-20I23.6	TSSC4	0.940240408	0.005250106
AC005786.7	TSSC4	0.95739267	0.002684403
AC005944.2	TSSC4	0.981371775	0.000517284
CTB-191K22.5	TSSC4	0.977920554	0.000725871
RP11-20I23.8	TSSC4	0.933794748	0.00642961
CDC37L1-AS1	TSSC4	0.927843218	0.007622056
LL21NC02-21A1.1	TSSC4	0.929705202	0.007238362
RP5-1142A6.10	TSSC4	0.947850414	0.004008457
RP11-556I13.1	TSSC4	0.928753183	0.007433335
RP11-680G24.6	TRAF4	0.825937214	0.042809916
LA16c-359F1.1	TRAF4	0.871987804	0.023531808
RP11-118G23.2	TSTA3	-0.96409122	0.001911101
LL21NC02-21A1.1	TSTA3	0.935830247	0.006044518
RP11-498J9.2	PYGL	0.843264188	0.034923977
RP11-34P13.14	PYGL	0.849455423	0.032289558
AC011558.5	TTC12	-0.959140848	0.002470099
AC011558.5	PYGL	0.811737004	0.049828135
CCDC144NL-AS1	ADAM8	-0.857406386	0.029049734
CTA-315H11.2	ADAM8	-0.880859434	0.020446143
PSMD5-AS1	ADAM8	0.853689299	0.030544208
RP11-326C3.2	ADAM8	0.87773145	0.021510465
AP006621.8	ADAM8	0.863866215	0.026537168
RP11-20I23.6	ADAM8	0.825856704	0.042848306
RP11-160E2.19	TTC24	0.945144262	0.004431193
RP5-1142A6.10	ADAM8	0.839303316	0.036660267
AC011558.5	TTC24	0.979754981	0.000610642
AC024028.1	AQP3	0.858905223	0.028457165
LLNLR-284B4.1	TTC26	-0.925315017	0.008158479
CTD-2541M15.3	AQP3	-0.859113113	0.028375432
AC011558.5	AQP3	0.882136608	0.020019003
CTA-315H11.2	TTC39A	-0.968076019	0.001512443
RP11-126K1.8	TTC39A	0.951080735	0.003531107
RP3-438O4.4	TTC39A	0.96300859	0.002027238
NUP50-AS1	TTC39A	0.960351961	0.002326788
RP11-485G7.6	C10orf128	0.905873168	0.012872816
PSMD5-AS1	TTC39A	0.993228088	6.86E-05
TOPORS-AS1	TTC39A	0.958207158	0.002583464
AC087294.2	TTC39A	0.982861593	0.00043807
AP001062.8	TTC39A	0.969633788	0.00136916
RP11-455F5.3	TTC39A	0.98786325	0.000220057
RP11-326C3.2	TTC39A	0.999353768	6.26E-07
AP006621.8	TTC39A	0.996512179	1.82E-05
RP11-485G7.6	PLEK	0.904865104	0.013145456
JHDM1D-AS1	TTC39A	0.986376176	0.000277149

RP11-20I23.6	TTC39A	0.992018114	9.53E-05
LA16c-359F1.1	PLEK	0.834514088	0.038812416
RP11-160E2.19	TTC39A	0.983097879	0.000426108
CCDC144NL-AS1	LSP1	-0.896692745	0.015457316
AC005786.7	TTC39A	0.977363417	0.000762823
RP11-66D17.5	LSP1	0.899977244	0.014506486
AC005944.2	TTC39A	0.969919597	0.001343637
CTB-191K22.5	TTC39A	0.952125822	0.003383043
RP11-20I23.8	TTC39A	0.988727124	0.0001899
CDC37L1-AS1	TTC39A	0.967707232	0.001547396
RP5-1142A6.10	TTC39A	0.987228955	0.000243608
RP11-556I13.1	TTC39A	0.986321208	0.000279384
AC011558.5	TTC39B	0.923602085	0.008532009
AC024028.1	TTC7A	0.94070274	0.005169998
RP11-473M20.11	TTC7A	0.96912634	0.00141506
AC024028.1	TTC7B	0.956145584	0.002842644
RP11-498J9.2	TTC7B	0.996620926	1.71E-05
RP11-34P13.14	TTC7B	0.985390137	0.000318613
RP11-93O14.2	TTC7B	0.987620628	0.000228925
RP11-485G7.6	TTC7B	0.955684815	0.00290224
RP11-78A19.3	TTC7B	0.982412161	0.000461278
Z69720.3	TTC7B	0.989227145	0.000173457
RP11-473M20.11	TTLL3	0.945150477	0.004430199
CTD-2531D15.5	TTLL7	-0.933369678	0.006511494
CTA-315H11.2	TTN	-0.961857766	0.0021545
RP11-66D17.5	TTN	0.928977109	0.007387248
AC011558.5	LSP1	0.896351432	0.015557789
AC024028.1	CSTA	0.855795893	0.029692887
RP11-473M20.11	CSTA	0.874165998	0.022755054
RP11-126K1.8	TTN	0.960428382	0.002317887
CTD-2621I17.8	CSTA	-0.842426253	0.035287991
CCDC144NL-AS1	CSDA	-0.865743625	0.025827191
RP3-438O4.4	TTN	0.984376784	0.000364221
NUP50-AS1	TTN	0.97156002	0.001201747
PSMD5-AS1	TTN	0.985653438	0.000307259
TOPORS-AS1	TTN	0.972912915	0.001090628
AC087294.2	TTN	0.993942885	5.49E-05
AP001062.8	TTN	0.981740701	0.000497059
RP11-455F5.3	TTN	0.995850439	2.58E-05
RP11-326C3.2	TTN	0.996077454	2.30E-05
AP006621.8	TTN	0.989340603	0.000169829
JHDM1D-AS1	TTN	0.997456589	9.70E-06
RP11-20I23.6	TTN	0.996796791	1.54E-05
RP11-160E2.19	TTN	0.962616211	0.002070199
AC005786.7	TTN	0.986576734	0.000269067
AC005944.2	TTN	0.962541762	0.0020784
CTB-191K22.5	TTN	0.963596709	0.001963679
RP11-20I23.8	TTN	0.997797116	7.27E-06
CDC37L1-AS1	TTN	0.988191323	0.000208344
RP5-1142A6.10	TTN	0.987532504	0.000232189
RP11-556I13.1	TTN	0.997473337	9.57E-06
RP4-784A16.3	TTY15	0.928535265	0.00747832
LL21NC02-21A1.1	CSDA	0.819869683	0.045748059
RP11-21J18.1	TTY15	0.950959372	0.003548504
AC024028.1	TTYH3	0.928704054	0.007443465
RP11-498J9.2	TTYH3	0.973265185	0.001062571
RP11-34P13.14	TTYH3	0.923706037	0.008509108
RP11-93O14.2	TTYH3	0.949062821	0.003825814
RP11-485G7.6	TTYH3	0.95631478	0.002820913
RP11-78A19.3	TTYH3	0.941939897	0.004958604
Z69720.3	TTYH3	0.949586349	0.00374824
RP11-126K1.8	TUBA4A	0.936413952	0.005936233
LA16c-359F1.1	PLK3	0.854524189	0.03020545

NUP50-AS1	TUBA4A	0.924304811	0.008377785
PSMD5-AS1	TUBA4A	0.969343252	0.001395348
AC087294.2	TUBA4A	0.92978296	0.007222549
AP001062.8	TUBA4A	0.92950155	0.007279858
RP11-455F5.3	TUBA4A	0.939929868	0.005304252
RP11-485G7.6	CLU	0.897888875	0.015107683
RP11-326C3.2	TUBA4A	0.950128761	0.003668692
AP006621.8	TUBA4A	0.968776958	0.001447098
JHDM1D-AS1	TUBA4A	0.92653978	0.007896395
CCDC144NL-AS1	PARVG	-0.840905312	0.035953247
CTA-315H11.2	PARVG	-0.867752131	0.025077774
CTD-2541M15.3	PARVG	-0.816450913	0.047443492
PSMD5-AS1	PARVG	0.849438069	0.032296806
RP11-326C3.2	PARVG	0.872374913	0.023392855
AP006621.8	PARVG	0.858729618	0.028526292
RP11-20I23.6	PARVG	0.822078721	0.044667836
RP11-20I23.6	TUBA4A	0.936616725	0.00589884
RP5-1142A6.10	PARVG	0.838718051	0.036920178
RP11-160E2.19	TUBA4A	0.941232811	0.005078895
AC024028.1	MFSD10	0.904494421	0.013246405
AC005786.7	TUBA4A	0.919889331	0.009369515
LLNLR-284B4.1	MFSD10	0.81248652	0.049445348
AC011558.5	MFSD10	0.884173842	0.019346604
AC005944.2	TUBA4A	0.950878491	0.003560121
CTD-2531D15.5	TANK	-0.864070737	0.02645938
CTB-191K22.5	TUBA4A	0.917399923	0.009952378
RP11-126K1.8	TANK	0.836003269	0.038137052
NUP50-AS1	TANK	0.819131254	0.04611183
RP11-20I23.8	TUBA4A	0.932017848	0.006775267
AC087294.2	TANK	0.849842302	0.032128174
AP001062.8	TANK	0.833615578	0.039222589
RP11-455F5.3	TANK	0.867777522	0.025068367
RP11-326C3.2	TANK	0.914360199	0.010687215
RP5-1142A6.10	TUBA4A	0.935040101	0.006192624
JHDM1D-AS1	TANK	0.855501317	0.029811247
RP11-20I23.6	TANK	0.872161565	0.023469388
RP11-556I13.1	TUBA4A	0.926178037	0.00797337
AC005786.7	TANK	0.834599683	0.038773447
AC005944.2	TANK	0.882212232	0.019993846
RP11-20I23.8	TANK	0.862870252	0.026917519
RP5-1142A6.10	TANK	0.870921924	0.02391643
RP11-556I13.1	TANK	0.855179661	0.029940743
AC011558.5	TANK	0.903302638	0.013573491
AC024028.1	TUBB3	0.972700427	0.001107727
RP11-498J9.2	TUBB3	0.999430513	4.86E-07
RP11-34P13.14	TUBB3	0.979037532	0.000654532
RP11-93O14.2	TUBB3	0.978555737	0.000684854
RP11-485G7.6	TUBB3	0.9578788	0.002623928
RP11-473M20.11	TUBB3	0.92760435	0.007671978
RP11-78A19.3	TUBB3	0.979679973	0.00061516
Z69720.3	TUBB3	0.984369184	0.000364574
RP3-337H4.8	TUBG1	0.936456472	0.005928382
RP3-337H4.8	TUBG2	0.957855106	0.002626859
MIR210HG	TUBG2	0.955969027	0.002865408
CCDC144NL-AS1	TUSC1	0.979998892	0.000596066
CTD-2531D15.5	TUSC1	0.925216178	0.008179811
CTA-315H11.2	TUSC1	0.947910607	0.00399929
CTA-315H11.2	TUSC3	-0.959664692	0.002407594
RP11-66D17.5	TUSC3	0.931107915	0.006955694
RP11-126K1.8	TUSC3	0.95701139	0.002732309
RP3-438O4.4	TUSC3	0.987919094	0.000218041
RP11-93O14.2	CTSS	0.916951756	0.010059124
RP11-485G7.6	CTSS	0.896189586	0.015605541

NUP50-AS1	TUSC3	0.968479562	0.001474649
PSMD5-AS1	TUSC3	0.975939692	0.000861383
TOPORS-AS1	TUSC3	0.968534728	0.001469519
CCDC144NL-AS1	CSF3R	-0.889120699	0.017759742
AC087294.2	TUSC3	0.992128321	9.27E-05
AP001062.8	TUSC3	0.979738529	0.000611632
RP11-455F5.3	TUSC3	0.992616479	8.16E-05
RP11-326C3.2	TUSC3	0.987744935	0.00022436
AP006621.8	TUSC3	0.979664984	0.000616065
JHDM1D-AS1	TUSC3	0.996235689	2.12E-05
RP11-20I23.6	TUSC3	0.991763628	0.000101477
RP11-160E2.19	TUSC3	0.947375239	0.00408118
AC005786.7	TUSC3	0.982611082	0.000450933
AC005944.2	TUSC3	0.953443852	0.003200758
CTB-191K22.5	TUSC3	0.962612306	0.002070629
RP11-20I23.8	TUSC3	0.995581472	2.92E-05
CDC37L1-AS1	TUSC3	0.993119845	7.08E-05
RP5-1142A6.10	TUSC3	0.978898593	0.000663206
RP11-556I13.1	TUSC3	0.996298066	2.05E-05
LL21NC02-21A1.1	TWSG1	-0.929943495	0.007189955
RMRP	TXNRD3	-0.950949335	0.003549945
RP11-77G23.2	TYMP	-0.931827994	0.006812722
NUP50-AS1	TYW3	-0.917659787	0.009890736
PSMD5-AS1	TYW3	-0.952600569	0.003316813
TOPORS-AS1	TYW3	-0.93618519	0.005978557
AC087294.2	TYW3	-0.926246675	0.007958737
AC011558.5	CSF3R	0.874105827	0.022776344
CCDC144NL-AS1	PSMF1	-0.844335454	0.034461187
RP11-455F5.3	TYW3	-0.929873967	0.007204063
RP11-326C3.2	TYW3	-0.957346209	0.002690218
AP006621.8	TYW3	-0.951521904	0.003468224
JHDM1D-AS1	TYW3	-0.926393914	0.00792739
RP11-20I23.6	TYW3	-0.953452212	0.003199617
RP11-160E2.19	TYW3	-0.976271885	0.000837855
AC005786.7	TYW3	-0.948815596	0.003862717
AC005944.2	TYW3	-0.953866838	0.003143311
RP11-20I23.8	TYW3	-0.9327581	0.006630193
RP5-1142A6.10	TYW3	-0.972867802	0.001094247
RP11-556I13.1	TYW3	-0.926326396	0.007941757
AC011558.5	TYW3	-0.934072195	0.006376436
LL21NC02-21A1.1	PSMF1	0.844570282	0.034360129
CCDC144NL-AS1	ARHGAP4	-0.880295038	0.020636274
RP11-66D17.5	ARHGAP4	0.885364399	0.01895875
CTD-2541M15.3	UBA2	0.948665826	0.003885158
AC005944.2	UBA5	-0.932078856	0.006763253
RP11-680G24.6	UBA6	0.923463967	0.008562481
AC011558.5	UBA7	0.933249331	0.006534769
CTA-315H11.2	UBB	-0.945311896	0.004404403
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RP11-126K1.8	UBB	0.975288015	0.000908478
RP3-438O4.4	UBB	0.993014029	7.30E-05
NUP50-AS1	UBB	0.985735746	0.000303752
PSMD5-AS1	UBB	0.984969521	0.000337175
TOPORS-AS1	UBB	0.979733324	0.00061195
AC087294.2	UBB	0.99934175	6.50E-07
AP001062.8	UBB	0.992844616	7.66E-05
RP11-455F5.3	UBB	0.999396712	5.46E-07
RP11-326C3.2	UBB	0.988924107	0.000183334
AP006621.8	UBB	0.986367097	0.000277517
JHDM1D-AS1	UBB	0.999837637	3.95E-08
AC011558.5	ARHGAP4	0.913129979	0.010991823
RP11-20I23.6	UBB	0.997397987	1.01E-05
RP11-160E2.19	UBB	0.945611124	0.00435678

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AC005944.2	UBB	0.969950492	0.001340892
CTB-191K22.5	UBB	0.979616413	0.000619001
RP11-20I23.8	UBB	0.999954179	3.15E-09
CDC37L1-AS1	UBB	0.994519577	4.50E-05
RP11-680G24.6	CCL3L1	0.84301471	0.035032169
LA16c-359F1.1	CCL3L1	0.894051821	0.01624289
RP5-1142A6.10	UBB	0.987754253	0.000224019
CTA-315H11.2	TNFRSF14	-0.817277627	0.04703088
RP11-77G23.2	TNFRSF14	-0.849743707	0.032169266
NUP50-AS1	TNFRSF14	0.81738802	0.04697591
PSMD5-AS1	TNFRSF14	0.893490172	0.016412373
AC087294.2	TNFRSF14	0.817267146	0.0470361
RP11-455F5.3	TNFRSF14	0.830003794	0.040891729
RP11-326C3.2	TNFRSF14	0.872168886	0.02346676
AP006621.8	TNFRSF14	0.889649759	0.017593886
JHDM1D-AS1	TNFRSF14	0.813764697	0.048795728
RP11-20I23.6	TNFRSF14	0.848976392	0.032489912
RP11-556I13.1	UBB	0.999819954	4.86E-08
AC005786.7	TNFRSF14	0.832724023	0.039631583
AC005944.2	TNFRSF14	0.894077287	0.016235225
RP11-20I23.8	TNFRSF14	0.824757696	0.043373964
RP5-1142A6.10	TNFRSF14	0.871855532	0.023579377
RP11-556I13.1	TNFRSF14	0.813372165	0.048994804
AC011558.5	TNFRSF14	0.905190832	0.013057058
CTA-315H11.2	UBE2B	-0.954105505	0.003111123
RP11-66D17.5	UBE2B	0.943095319	0.004765081
RP11-126K1.8	SUN2	0.859629313	0.028172968
RP3-438O4.4	SUN2	0.874698216	0.022567153
NUP50-AS1	SUN2	0.868876161	0.024662955
RP11-126K1.8	UBE2B	0.977097192	0.000780801
TOPORS-AS1	SUN2	0.877633768	0.021544117
AC087294.2	SUN2	0.91049994	0.011656932
AP001062.8	SUN2	0.88364866	0.01951889
RP3-438O4.4	UBE2B	0.986469953	0.000273355
NUP50-AS1	UBE2B	0.98133231	0.000519471
PSMD5-AS1	UBE2B	0.98839155	0.000201352
TOPORS-AS1	UBE2B	0.971793416	0.001182196
AC087294.2	UBE2B	0.99716951	1.20E-05
AP001062.8	UBE2B	0.990562576	0.000133177
AC005786.7	SUN2	0.905268201	0.013036104
AC005944.2	SUN2	0.914634238	0.010619927
CTB-191K22.5	SUN2	0.858406327	0.028653763
RP11-455F5.3	UBE2B	0.999050616	1.35E-06
CDC37L1-AS1	SUN2	0.886750959	0.018511789
RP11-326C3.2	UBE2B	0.991219882	0.000115297
AP006621.8	UBE2B	0.990667455	0.000130238
JHDM1D-AS1	UBE2B	0.998084731	5.50E-06
RP11-20I23.6	UBE2B	0.994989785	3.76E-05
RP11-498J9.2	TREM1	0.832481494	0.039743185
RP11-34P13.14	TREM1	0.819839183	0.045763057
RP11-160E2.19	UBE2B	0.94922824	0.003801218
AC011558.5	TREM1	0.823129473	0.044158238
CCDC144NL-AS1	TESC	-0.85427426	0.030306672
AC005786.7	UBE2B	0.986680684	0.000264925
AC005944.2	UBE2B	0.967761066	0.00154227
CTB-191K22.5	UBE2B	0.974608183	0.000958931
RP11-20I23.8	UBE2B	0.998392577	3.87E-06
CDC37L1-AS1	UBE2B	0.987757173	0.000223913
RP5-1142A6.10	UBE2B	0.983703876	0.000396182
RP11-556I13.1	UBE2B	0.998028956	5.82E-06
CCDC144NL-AS1	UBE2D3	-0.933851141	0.006418785
CTA-315H11.2	UBE2D3	-0.978176425	0.000709206

RP11-126K1.8	UBE2D3	0.941121869	0.005097897
RP3-438O4.4	UBE2D3	0.956719449	0.002769272
NUP50-AS1	UBE2D3	0.943451567	0.004706175
PSMD5-AS1	UBE2D3	0.981795216	0.000494105
TOPORS-AS1	UBE2D3	0.945807204	0.00432571
AC087294.2	UBE2D3	0.975907695	0.000863667
AP001062.8	UBE2D3	0.959048724	0.002481173
RP11-455F5.3	UBE2D3	0.982171097	0.000473971
RP11-326C3.2	UBE2D3	0.99560893	2.89E-05
AP006621.8	UBE2D3	0.988622789	0.000193425
JHDM1D-AS1	UBE2D3	0.982392275	0.000462318
LL21NC02-21A1.1	TESC	0.851973584	0.031245966
RP11-20I23.6	UBE2D3	0.982656758	0.000448574
RP11-160E2.19	UBE2D3	0.973224731	0.001065775
CCDC144NL-AS1	HEXIM1	-0.908553188	0.012161416
AC005786.7	UBE2D3	0.962415397	0.002092358
RP3-438O4.4	HEXIM1	0.812991098	0.049188426
PSMD5-AS1	HEXIM1	0.912933528	0.011040849
TOPORS-AS1	HEXIM1	0.824051729	0.043713206
AC087294.2	HEXIM1	0.856092393	0.029573979
AP001062.8	HEXIM1	0.823275617	0.044087577
RP11-455F5.3	HEXIM1	0.871003968	0.023886719
AC005944.2	UBE2D3	0.943892428	0.004633774
CTB-191K22.5	UBE2D3	0.932873294	0.006607756
JHDM1D-AS1	HEXIM1	0.869409084	0.024467433
RP11-20I23.6	HEXIM1	0.890130613	0.017443791
RP11-20I23.8	UBE2D3	0.983303084	0.000415853
AC005786.7	HEXIM1	0.852193582	0.031155562
AC005944.2	HEXIM1	0.866342676	0.025602575
RP11-20I23.8	HEXIM1	0.875303399	0.022354395
CDC37L1-AS1	HEXIM1	0.826907065	0.042348713
RP5-1142A6.10	HEXIM1	0.894029963	0.01624947
RP11-556I13.1	HEXIM1	0.869379767	0.02447817
CDC37L1-AS1	UBE2D3	0.96184604	0.002155816
CCDC144NL-AS1	FBXO7	-0.86227525	0.027145971
RP5-1142A6.10	UBE2D3	0.971800277	0.001181624
RP11-556I13.1	UBE2D3	0.982375227	0.000463212
CTA-315H11.2	UBE2F	-0.931894387	0.006799612
RP11-66D17.5	UBE2F	0.953940394	0.003133373
RP11-126K1.8	UBE2F	0.993204556	6.91E-05
RP3-438O4.4	UBE2F	0.955415027	0.002937416
NUP50-AS1	UBE2F	0.980063079	0.000592259
PSMD5-AS1	UBE2F	0.987764313	0.000223652
TOPORS-AS1	UBE2F	0.928156975	0.007556724
AC087294.2	UBE2F	0.976823667	0.000799489
AP001062.8	UBE2F	0.984265815	0.000369399
RP11-455F5.3	UBE2F	0.98067727	0.000556445
RP11-326C3.2	UBE2F	0.960792706	0.002275683
AP006621.8	UBE2F	0.983559398	0.000403218
JHDM1D-AS1	UBE2F	0.970881295	0.001259504
RP11-20I23.6	UBE2F	0.967453585	0.001571666
RP11-160E2.19	UBE2F	0.91800482	0.009809179
AC005786.7	UBE2F	0.960698595	0.002286548
AC005944.2	UBE2F	0.983220968	0.000419942
CTB-191K22.5	UBE2F	0.983212321	0.000420374
LL21NC02-21A1.1	FBXO7	0.826710957	0.042441783
RP11-20I23.8	UBE2F	0.973499831	0.001044083
CDC37L1-AS1	UBE2F	0.955578827	0.002916034
AC024028.1	RASSF5	0.898363349	0.014970059
RP5-1142A6.10	UBE2F	0.953969338	0.003129467
CTD-2139B15.2	RASSF5	-0.814170491	0.048590321
AC011558.5	RASSF5	0.884259204	0.01931867
CCDC144NL-AS1	RNASE2	-0.831852568	0.040033275

CTA-315H11.2	RNASE2	-0.897293797	0.015281145
RP11-126K1.8	RNASE2	0.841785589	0.035567504
RP3-438O4.4	RNASE2	0.869784837	0.02433002
NUP50-AS1	RNASE2	0.874963187	0.022473881
RP11-556I13.1	UBE2F	0.970585019	0.001285136
TOPORS-AS1	RNASE2	0.906292585	0.012760193
AC087294.2	RNASE2	0.900622366	0.014323149
AP001062.8	RNASE2	0.877121113	0.021721144
RP11-455F5.3	RNASE2	0.908103466	0.012279428
CTA-315H11.2	UBE2H	-0.955361807	0.00294438
RP11-66D17.5	UBE2H	0.942974027	0.004785219
JHDM1D-AS1	RNASE2	0.906388653	0.012734464
RP11-126K1.8	UBE2H	0.974163828	0.000992639
RP3-438O4.4	UBE2H	0.987053561	0.00025033
NUP50-AS1	UBE2H	0.981151509	0.00052955
PSMD5-AS1	UBE2H	0.989386297	0.000168378
CTB-191K22.5	RNASE2	0.858235148	0.028721367
RP11-20I23.8	RNASE2	0.912643505	0.01111342
CDC37L1-AS1	RNASE2	0.875177539	0.022398563
TOPORS-AS1	UBE2H	0.973744219	0.001024999
RP11-556I13.1	RNASE2	0.906371822	0.01273897
AC087294.2	UBE2H	0.997470342	9.59E-06
CCDC144NL-AS1	KLF2	-0.904209547	0.013324239
AP001062.8	UBE2H	0.989828279	0.00015467
RP11-126K1.8	KLF2	0.836450734	0.037935206
RP3-438O4.4	KLF2	0.851535449	0.031426377
NUP50-AS1	KLF2	0.849800092	0.032145763
RP11-455F5.3	UBE2H	0.999176842	1.02E-06
TOPORS-AS1	KLF2	0.866272929	0.025628678
AC087294.2	KLF2	0.890606557	0.017295836
AP001062.8	KLF2	0.862632432	0.027008721
RP11-455F5.3	KLF2	0.903131025	0.013620908
RP11-326C3.2	UBE2H	0.993181262	6.96E-05
AP006621.8	UBE2H	0.991553359	0.000106717
JHDM1D-AS1	KLF2	0.900856107	0.014256999
JHDM1D-AS1	UBE2H	0.998710006	2.50E-06
RP11-20I23.6	UBE2H	0.996909928	1.43E-05
AC005786.7	KLF2	0.890590488	0.017300822
AC005944.2	KLF2	0.900912236	0.014241137
CTB-191K22.5	KLF2	0.836280587	0.038011898
RP11-20I23.8	KLF2	0.906572796	0.012685217
CDC37L1-AS1	KLF2	0.862216192	0.027168697
RP11-160E2.19	UBE2H	0.954250895	0.003091595
RP11-556I13.1	KLF2	0.900808777	0.014270382
AC005786.7	UBE2H	0.988804795	0.000187297
LLNLR-284B4.1	TMEM9	0.851579653	0.031408153
RP4-784A16.3	TMEM9	-0.860982008	0.027645672
RP11-77G23.2	TMEM9	-0.863962433	0.026500559
CTA-315H11.2	HDGF	-0.901729544	0.014011121
AC005944.2	UBE2H	0.970086624	0.001328832
CTB-191K22.5	UBE2H	0.974525733	0.000965142
RP11-20I23.8	UBE2H	0.99920919	9.38E-07
CDC37L1-AS1	UBE2H	0.989054966	0.000179035
RP5-1142A6.10	UBE2H	0.986868806	0.00025751
RP11-556I13.1	UBE2H	0.99866938	2.65E-06
RP3-337H4.8	UBE2T	0.928767621	0.007430359
CTD-2139B15.2	UBE2T	0.945853314	0.00431842
RP11-91K8.5	UBE2T	0.918722644	0.009640554
CTA-315H11.2	UBE2V1	-0.950524381	0.003611201
RP11-66D17.5	UBE2V1	0.93895986	0.005475133
RP11-126K1.8	UBE2V1	0.980612079	0.000560193
RP3-438O4.4	UBE2V1	0.983349236	0.000413564
RP11-160E2.19	HDGF	0.907369551	0.012473197

NUP50-AS1	UBE2V1	0.974248202	0.000986194
PSMD5-AS1	UBE2V1	0.974506776	0.000966573
TOPORS-AS1	UBE2V1	0.955182272	0.002967932
AC087294.2	UBE2V1	0.991095614	0.000118579
AP001062.8	UBE2V1	0.987245663	0.000242972
LL21NC02-21A1.1	HDGF	0.883993106	0.019405812
RP11-455F5.3	UBE2V1	0.992803981	7.75E-05
RP11-326C3.2	UBE2V1	0.975365279	0.000902829
AC024028.1	FLI1	0.89899828	0.014786844
AP006621.8	UBE2V1	0.977514614	0.000752705
AC011558.5	FLI1	0.883581665	0.019540921
CTA-315H11.2	NOSIP	-0.84122675	0.035812164
JHDM1D-AS1	UBE2V1	0.991922953	9.76E-05
RP11-20I23.6	UBE2V1	0.980601367	0.000560811
RP11-160E2.19	UBE2V1	0.917798911	0.009857811
AC005786.7	UBE2V1	0.971092439	0.001241392
AC005944.2	UBE2V1	0.948192021	0.003956572
CTB-191K22.5	UBE2V1	0.969390912	0.001391035
RP11-20I23.8	UBE2V1	0.990693907	0.000129502
CDC37L1-AS1	UBE2V1	0.98407328	0.000378471
RP5-1142A6.10	UBE2V1	0.960969979	0.002255286
RP11-556I13.1	UBE2V1	0.991854985	9.92E-05
AC011558.5	UBL3	0.944867188	0.004475649
CTA-315H11.2	UBL7	-0.918829722	0.009615521
RP11-66D17.5	UBL7	0.975785043	0.000872447
RP11-160E2.19	NOSIP	0.892090404	0.016838446
RP11-126K1.8	UBL7	0.984283097	0.00036859
RP3-438O4.4	UBL7	0.994399503	4.70E-05
NUP50-AS1	UBL7	0.996401155	1.94E-05
PSMD5-AS1	UBL7	0.980734131	0.000553185
TOPORS-AS1	UBL7	0.982504442	0.000456464
AC087294.2	UBL7	0.998397512	3.85E-06
AP001062.8	UBL7	0.998399267	3.84E-06
RP11-455F5.3	UBL7	0.996450181	1.89E-05
AC024028.1	UBA7	0.827378817	0.04212522
RP11-473M20.11	UBA7	0.904408846	0.013269763
LLNLR-284B4.1	UBA7	0.837201141	0.037597835
CTD-2541M15.3	UBA7	-0.829316592	0.041212993
RP11-160E2.19	UBA7	0.827102594	0.042256014
RP11-326C3.2	UBL7	0.976106668	0.000849517
AP006621.8	UBL7	0.978842484	0.000666725
JHDM1D-AS1	UBL7	0.995073587	3.63E-05
RP11-66D17.5	GABARAPL1	0.887046652	0.018417133
RP11-20I23.6	UBL7	0.993213201	6.89E-05
RP11-160E2.19	UBL7	0.926826469	0.007835649
AC005786.7	UBL7	0.995570236	2.94E-05
AC005944.2	UBL7	0.978082359	0.00071531
CTB-191K22.5	UBL7	0.992555418	8.29E-05
RP11-20I23.8	UBL7	0.99555625	2.96E-05
CDC37L1-AS1	UBL7	0.993470328	6.38E-05
RP5-1142A6.10	UBL7	0.985727894	0.000304086
RP11-556I13.1	UBL7	0.995008015	3.73E-05
CCDC144NL-AS1	UBR2	-0.939796157	0.00532765
CTA-315H11.2	UBR2	-0.974708794	0.000951379
RP11-126K1.8	UBR2	0.952169672	0.003376899
RP3-438O4.4	UBR2	0.962842841	0.002045331
NUP50-AS1	UBR2	0.945295144	0.004407076
PSMD5-AS1	UBR2	0.972105541	0.001156299
TOPORS-AS1	UBR2	0.939170808	0.005437746
AC087294.2	UBR2	0.977341621	0.000764287
AP001062.8	UBR2	0.963958192	0.001925109
RP11-455F5.3	UBR2	0.982689172	0.000446903
RP11-326C3.2	UBR2	0.984150599	0.000374815

AC011558.5	GABARAPL1	0.879657691	0.020851992
LLNLR-284B4.1	PSMB9	0.873522308	0.022983303
RP11-77G23.2	PSMB9	-0.896503528	0.015512977
CTD-2541M15.3	PSMB9	-0.880072676	0.020711413
PSMD5-AS1	PSMB9	0.849317901	0.032347017
RP11-326C3.2	PSMB9	0.834865414	0.038652584
AP006621.8	PSMB9	0.845061056	0.034149377
RP11-160E2.19	PSMB9	0.907310646	0.012488813
AC005944.2	PSMB9	0.857892357	0.028856971
RP5-1142A6.10	PSMB9	0.841769969	0.035574332
AP006621.8	UBR2	0.97939555	0.000632441
CCDC144NL-AS1	BNIP3L	-0.86712516	0.025310584
JHDM1D-AS1	UBR2	0.983264292	0.000417782
RP11-20I23.6	UBR2	0.974966881	0.000932142
RP11-160E2.19	UBR2	0.943263592	0.004737212
AC005786.7	UBR2	0.955255047	0.002958374
AC005944.2	UBR2	0.930018334	0.007174785
CTB-191K22.5	UBR2	0.936336801	0.005950491
RP11-20I23.8	UBR2	0.98243425	0.000460123
CDC37L1-AS1	UBR2	0.96672827	0.001642096
RP5-1142A6.10	UBR2	0.956008994	0.002860247
RP11-556I13.1	UBR2	0.983241822	0.000418902
AC011558.5	UBR7	-0.981601292	0.000504655
AC024028.1	UBTD2	0.983340994	0.000413972
RP11-473M20.11	UBTD2	0.998381898	3.93E-06
CTA-315H11.2	UBXN6	-0.943125106	0.004760142
RP11-66D17.5	UBXN6	0.955297019	0.002952869
RP11-126K1.8	UBXN6	0.976837648	0.000798529
RP3-438O4.4	UBXN6	0.993979159	5.43E-05
NUP50-AS1	UBXN6	0.986643194	0.000266415
PSMD5-AS1	UBXN6	0.983642395	0.000399168
TOPORS-AS1	UBXN6	0.979823444	0.000606533
LL21NC02-21A1.1	BNIP3L	0.820952964	0.045216831
AC087294.2	UBXN6	0.999592718	2.49E-07
AP001062.8	UBXN6	0.993758129	5.83E-05
RP11-455F5.3	UBXN6	0.999404999	5.31E-07
RP11-326C3.2	UBXN6	0.987191896	0.000245021
AP006621.8	UBXN6	0.98494813	0.000338133
JHDM1D-AS1	UBXN6	0.999829065	4.38E-08
RP11-20I23.6	UBXN6	0.996592118	1.74E-05
RP11-160E2.19	UBXN6	0.941575482	0.005020423
AC005786.7	UBXN6	0.992500673	8.41E-05
AC005944.2	UBXN6	0.968806247	0.001444399
CTB-191K22.5	UBXN6	0.980651052	0.000557951
RP11-20I23.8	UBXN6	0.999769998	7.93E-08
CDC37L1-AS1	UBXN6	0.995133021	3.55E-05
RP5-1142A6.10	UBXN6	0.986348779	0.000278262
RP11-556I13.1	UBXN6	0.999809641	5.44E-08
RP11-118G23.2	UGDH	0.994317386	4.83E-05
RP11-680G24.6	UGDH	0.959315139	0.002449215
AC024028.1	UGT1A6	0.964058807	0.00191444
RP11-498J9.2	UGT1A6	0.999993948	5.49E-11
RP11-34P13.14	UGT1A6	0.978574225	0.000683678
RP11-93O14.2	UGT1A6	0.983160246	0.000422978
RP11-485G7.6	UGT1A6	0.965307179	0.00178451
RP11-78A19.3	UGT1A6	0.983186524	0.000421663
Z69720.3	UGT1A6	0.986640928	0.000266505
CCDC144NL-AS1	PRMT2	-0.853309548	0.030698884
CTA-315H11.2	PRMT2	-0.903049482	0.013643466
CTD-2541M15.3	PRMT2	-0.820481999	0.045447432
PSMD5-AS1	PRMT2	0.887082795	0.018405579
AC087294.2	PRMT2	0.826611537	0.042489001
RP11-455F5.3	PRMT2	0.840463872	0.036147425

RP11-326C3.2	PRMT2	0.911302497	0.011451968
AP006621.8	PRMT2	0.89570357	0.015749363
JHDM1D-AS1	PRMT2	0.83980893	0.036436422
RP11-20I23.6	PRMT2	0.86898955	0.024621293
RP11-498J9.2	UHRF1BP1L	0.963247315	0.002001318
AC005786.7	PRMT2	0.834856649	0.038656568
AC005944.2	PRMT2	0.849402432	0.032311693
RP11-20I23.8	PRMT2	0.846970397	0.033335261
RP5-1142A6.10	PRMT2	0.882550213	0.019881601
RP11-556I13.1	PRMT2	0.839820589	0.036431268
RP11-34P13.14	UHRF1BP1L	0.980811787	0.000548749
CCDC144NL-AS1	RBM38	-0.864446612	0.026316704
RP11-93O14.2	UHRF1BP1L	0.980419902	0.000571317
RP11-485G7.6	UHRF1BP1L	0.931174008	0.006942511
RP11-78A19.3	UHRF1BP1L	0.97616399	0.000845462
RP11-680G24.6	UHRF1BP1L	0.956588802	0.002785893
LA16c-359F1.1	UHRF1BP1L	0.967062131	0.001609488
Z69720.3	UHRF1BP1L	0.976204111	0.000842629
AC024028.1	ULBP2	0.958751916	0.002517017
RP11-498J9.2	ULBP2	0.999184069	9.98E-07
RP11-34P13.14	ULBP2	0.971745125	0.001186228
RP11-93O14.2	ULBP2	0.97894967	0.000660011
RP11-485G7.6	ULBP2	0.971137966	0.001237504
RP11-78A19.3	ULBP2	0.979188101	0.000645196
Z69720.3	ULBP2	0.986667187	0.000265461
CTD-2531D15.5	UMPS	0.94210936	0.004929984
RP11-156P1.3	UNKL	-0.928070347	0.007574735
RP11-126K1.8	UNKL	0.938988155	0.005470111
RP11-160E2.19	UPP1	0.963268005	0.001999079
AC011558.5	UPP1	0.989357512	0.000169291
RP11-66D17.5	UQCR11	0.986071143	0.000289668
RP11-126K1.8	UQCR11	0.990434255	0.000136818
LL21NC02-21A1.1	RBM38	0.834653777	0.038748829
RP3-438O4.4	UQCR11	0.986706064	0.000263918
NUP50-AS1	UQCR11	0.999700013	1.35E-07
CCDC144NL-AS1	SEPT9	-0.894946912	0.015974536
PSMD5-AS1	UQCR11	0.977954519	0.000723648
RP11-126K1.8	SEPT9	0.856899006	0.029251638
RP3-438O4.4	SEPT9	0.885535294	0.018903385
NUP50-AS1	SEPT9	0.876340931	0.021991878
TOPORS-AS1	UQCR11	0.974361127	0.000977601
TOPORS-AS1	SEPT9	0.897920318	0.015098544
AC087294.2	SEPT9	0.916462803	0.010176214
AP001062.8	SEPT9	0.888393145	0.017989043
AC087294.2	UQCR11	0.992437201	8.56E-05
AP001062.8	UQCR11	0.998264486	4.52E-06
RP11-455F5.3	UQCR11	0.990155241	0.000144902
RP11-326C3.2	UQCR11	0.963521602	0.00197174
AP006621.8	UQCR11	0.973350179	0.001055856
JHDM1D-AS1	UQCR11	0.98591324	0.000296258
RP11-20I23.6	UQCR11	0.984693309	0.000349649
AC005944.2	SEPT9	0.916835973	0.010086791
CTB-191K22.5	SEPT9	0.863154189	0.026808823
AC005786.7	UQCR11	0.990450929	0.000136342
CDC37L1-AS1	SEPT9	0.896224823	0.015595139
AC005944.2	UQCR11	0.983761801	0.000393378
CTB-191K22.5	UQCR11	0.998337766	4.14E-06
RP11-20I23.8	UQCR11	0.987115963	0.000247928
CCDC144NL-AS1	UBE2F	-0.869309468	0.024503925
RP11-156P1.3	UBE2F	-0.82293824	0.04425078
CDC37L1-AS1	UQCR11	0.984054067	0.000379382
RP5-1142A6.10	UQCR11	0.978258472	0.000703903
RP11-556I13.1	UQCR11	0.98577174	0.000302225

CTD-2139B15.2	UQCRC1	0.934439801	0.006306316
CTD-2139B15.2	UQCRFS1	0.925715786	0.008072261
RP3-337H4.8	UROD	0.926515308	0.007901591
RP3-337H4.8	UROS	0.962343363	0.002100334
MIR210HG	UROS	0.928932315	0.007396456
CTA-315H11.2	USP12PX	-0.962017191	0.002136642
RP11-66D17.5	USP12PX	0.92948722	0.007282782
RP11-126K1.8	USP12PX	0.962384374	0.002095791
RP3-438O4.4	USP12PX	0.984285511	0.000368477
NUP50-AS1	USP12PX	0.972256284	0.001143893
PSMD5-AS1	USP12PX	0.986270951	0.000281436
TOPORS-AS1	USP12PX	0.972422394	0.0011303
AC087294.2	USP12PX	0.994295911	4.87E-05
AP001062.8	USP12PX	0.982596174	0.000451704
RP11-455F5.3	USP12PX	0.996359233	1.99E-05
RP11-326C3.2	USP12PX	0.996009791	2.39E-05
AP006621.8	USP12PX	0.989951048	0.000150965
LL21NC02-21A1.1	UBE2F	0.866895437	0.025396142
JHDM1D-AS1	USP12PX	0.99761844	8.50E-06
RP11-20I23.6	USP12PX	0.996594984	1.74E-05
CCDC144NL-AS1	ARHGEF1	-0.890364081	0.017371138
RP11-160E2.19	USP12PX	0.961650273	0.002177852
RP11-66D17.5	ARHGEF1	0.892378215	0.016750411
AC005786.7	USP12PX	0.986217549	0.000283625
AC005944.2	USP12PX	0.962708908	0.002060009
CTB-191K22.5	USP12PX	0.96427243	0.001891886
RP11-20I23.8	USP12PX	0.997945807	6.33E-06
CDC37L1-AS1	USP12PX	0.987788711	0.000222763
RP5-1142A6.10	USP12PX	0.986939434	0.000254754
RP11-556I13.1	USP12PX	0.997625446	8.45E-06
CTA-315H11.2	USP20	-0.938819753	0.005500034
RP11-66D17.5	USP20	0.934773739	0.006242946
RP11-126K1.8	USP20	0.965303425	0.001784894
RP3-438O4.4	USP20	0.958871446	0.002502551
NUP50-AS1	USP20	0.974808911	0.000943893
PSMD5-AS1	USP20	0.99643936	1.90E-05
TOPORS-AS1	USP20	0.959692213	0.002404332
AC087294.2	USP20	0.981230666	0.000525126
AP001062.8	USP20	0.976829762	0.00079907
RP11-455F5.3	USP20	0.985214874	0.000326284
RP11-326C3.2	USP20	0.988363371	0.000202329
AP006621.8	USP20	0.995127004	3.56E-05
JHDM1D-AS1	USP20	0.979312001	0.000637563
AC011558.5	ARHGEF1	0.903599001	0.013491794
RP11-20I23.6	USP20	0.988644964	0.000192673
RP11-160E2.19	USP20	0.971340628	0.00122027
AC005786.7	USP20	0.981205592	0.000526525
RP11-93O14.2	RUNX3	0.916236909	0.010230531
RP11-485G7.6	RUNX3	0.874870837	0.022506368
AC005944.2	USP20	0.989075956	0.00017835
CTB-191K22.5	USP20	0.969098487	0.001417601
RP11-20I23.8	USP20	0.983146183	0.000423683
CCDC144NL-AS1	TUBA4A	-0.903569088	0.013500029
CTA-315H11.2	TUBA4A	-0.914305215	0.01070074
RP11-66D17.5	TUBA4A	0.869754238	0.024341196
CDC37L1-AS1	USP20	0.960095418	0.002356792
RP3-438O4.4	TUBA4A	0.890032663	0.017474315
RP5-1142A6.10	USP20	0.988837332	0.000186212
RP11-556I13.1	USP20	0.979145363	0.000647839
TOPORS-AS1	TUBA4A	0.8916158	0.0169841
RP3-339A18.6	USP46	0.952508061	0.003329668
RP11-126K1.8	UTP11L	-0.950568715	0.003604786
RP3-438O4.4	UTP11L	-0.920812815	0.009157639

NUP50-AS1	UTP11L	-0.94529528	0.004407055
PSMD5-AS1	UTP11L	-0.95494133	0.002999685
TOPORS-AS1	UTP11L	-0.928879527	0.007407314
AC087294.2	UTP11L	-0.945928151	0.004306601
AP001062.8	UTP11L	-0.948887525	0.003851962
RP11-455F5.3	UTP11L	-0.950966057	0.003547545
RP11-326C3.2	UTP11L	-0.944665126	0.004508206
AP006621.8	UTP11L	-0.955175266	0.002968853
JHDM1D-AS1	UTP11L	-0.940895235	0.005136822
CDC37L1-AS1	TUBA4A	0.888427015	0.017978337
RP11-20I23.6	UTP11L	-0.945232761	0.00441704
AC005786.7	UTP11L	-0.939147483	0.005441874
AC011558.5	TUBA4A	0.840123238	0.036297597
AC005944.2	UTP11L	-0.937281883	0.005776991
CTB-191K22.5	UTP11L	-0.932917425	0.00659917
RP11-20I23.8	UTP11L	-0.943635151	0.004675959
RP5-1142A6.10	UTP11L	-0.942958349	0.004787825
RP11-556I13.1	UTP11L	-0.940617277	0.005184761
AC024028.1	UTRN	0.95776057	0.002638573
RP11-473M20.11	UTRN	0.988744398	0.00018932
LA16c-359F1.1	CLEC7A	0.845721022	0.03386693
AC011558.5	VASP	0.983785608	0.000392228
AC024028.1	KIAA0748	0.889271389	0.017712426
RP11-160E2.19	VAV1	0.964452114	0.001873018
CTD-2139B15.2	KIAA0748	-0.893426281	0.016431707
RP11-91K8.5	KIAA0748	-0.847636289	0.033053512
AC011558.5	KIAA0748	0.842977674	0.035048244
CCDC144NL-AS1	CDC42SE1	-0.908170772	0.012261731
AC011558.5	VAV1	0.986256845	0.000282014
RP11-126K1.8	CDC42SE1	0.815949704	0.04769446
RP3-438O4.4	CDC42SE1	0.847352001	0.033173661
NUP50-AS1	CDC42SE1	0.830583158	0.040621793
AC024028.1	VCAN	0.951747883	0.003436228
TOPORS-AS1	CDC42SE1	0.854757902	0.03011094
AC087294.2	CDC42SE1	0.882217547	0.019992079
AP001062.8	CDC42SE1	0.848115167	0.032851588
RP11-455F5.3	CDC42SE1	0.894650113	0.01606328
RP11-498J9.2	VCAN	0.998277373	4.45E-06
RP11-34P13.14	VCAN	0.966746209	0.001640336
JHDM1D-AS1	CDC42SE1	0.89635204	0.01555761
RP11-20I23.6	CDC42SE1	0.913559432	0.010885017
RP11-93O14.2	VCAN	0.982017574	0.000482144
AC005786.7	CDC42SE1	0.878634849	0.021200426
AC005944.2	CDC42SE1	0.878405143	0.021279055
CTB-191K22.5	CDC42SE1	0.81708261	0.047128062
RP11-20I23.8	CDC42SE1	0.900823226	0.014266296
CDC37L1-AS1	CDC42SE1	0.861606726	0.027403745
RP5-1142A6.10	CDC42SE1	0.915107201	0.010504279
RP11-556I13.1	CDC42SE1	0.896403939	0.015542312
RP11-485G7.6	VCAN	0.977707425	0.000739899
RP11-78A19.3	VCAN	0.982116847	0.000476851
Z69720.3	VCAN	0.98252169	0.000455567
AC024028.1	VGf	0.942993797	0.004781934
RP11-498J9.2	VGf	0.996862028	1.48E-05
RP11-34P13.14	VGf	0.977074242	0.000782361
RP11-93O14.2	VGf	0.990645655	0.000130846
RP11-485G7.6	VGf	0.975549289	0.000889447
LA16c-359F1.1	PTPRE	0.849779879	0.032154187
RP11-78A19.3	VGf	0.990178731	0.000144212
LA16c-359F1.1	VGf	0.92849248	0.007487168
RP11-498J9.2	MARCKSL1	0.849441189	0.032295503
RP11-34P13.14	MARCKSL1	0.828893882	0.041411193
Z69720.3	VGf	0.987365414	0.000238441

LLNLR-284B4.1	MARCKSL1	0.829317742	0.041212455
AC011558.5	MARCKSL1	0.81425753	0.048546315
CTA-315H11.2	VILL	-0.9400573	0.005282
RP11-66D17.5	VILL	0.921974833	0.008894384
RP11-126K1.8	VILL	0.942022979	0.004944562
RP3-438O4.4	VILL	0.96711641	0.001604217
RP11-485G7.6	ARHGAP26	0.904798961	0.013163442
NUP50-AS1	VILL	0.965495474	0.001765304
PSMD5-AS1	VILL	0.985791179	0.000301402
LA16c-359F1.1	ARHGAP26	0.814877619	0.048233345
TOPORS-AS1	VILL	0.975167702	0.000917308
AC087294.2	VILL	0.981789309	0.000494424
AP001062.8	VILL	0.968896147	0.001436129
RP11-455F5.3	VILL	0.983901713	0.000386646
RP11-93O14.2	FAM101B	0.91687498	0.010077466
RP11-485G7.6	FAM101B	0.88378916	0.019472728
RP11-326C3.2	VILL	0.994430603	4.64E-05
AP006621.8	VILL	0.987357381	0.000238743
JHDM1D-AS1	VILL	0.983793212	0.000391862
RP11-118G23.2	AP2S1	-0.852245481	0.031134253
RP11-20I23.6	VILL	0.994676275	4.24E-05
RP11-160E2.19	VILL	0.981287493	0.000521961
AC005786.7	VILL	0.987745955	0.000224322
AC005944.2	VILL	0.973806295	0.001020179
PSMD5-AS1	AP2S1	0.913598182	0.010875405
CTB-191K22.5	VILL	0.955599925	0.002913286
RP11-20I23.8	VILL	0.986540083	0.000270535
CDC37L1-AS1	VILL	0.970263402	0.00131325
RP5-1142A6.10	VILL	0.997578179	8.79E-06
RP11-326C3.2	AP2S1	0.871582335	0.023677771
AP006621.8	AP2S1	0.899612414	0.014610665
JHDM1D-AS1	AP2S1	0.914149868	0.010739
RP11-20I23.6	AP2S1	0.913915462	0.010796855
RP11-556I13.1	VILL	0.983785256	0.000392245
AC024028.1	VIM	0.981680358	0.00050034
RP11-498J9.2	VIM	0.996125722	2.25E-05
RP11-20I23.8	AP2S1	0.916641162	0.010133426
RP11-34P13.14	VIM	0.970950167	0.001253582
RP11-93O14.2	VIM	0.967712973	0.001546849
RP5-1142A6.10	AP2S1	0.912316727	0.011195464
RP11-556I13.1	AP2S1	0.913838518	0.010815879
CCDC144NL-AS1	LRCH4	-0.893979308	0.016264724
RP11-485G7.6	VIM	0.949635207	0.003741041
RP11-66D17.5	LRCH4	0.880374676	0.020609395
RP11-473M20.11	VIM	0.944819566	0.004483311
RP11-78A19.3	VIM	0.97096789	0.00125206
Z69720.3	VIM	0.975224819	0.000913111
CTA-315H11.2	VIPR1	-0.965742208	0.001740292
RP11-126K1.8	VIPR1	0.951937834	0.003409447
RP3-438O4.4	VIPR1	0.972306204	0.0011398
NUP50-AS1	VIPR1	0.963749418	0.001947338
PSMD5-AS1	VIPR1	0.989537455	0.000163625
TOPORS-AS1	VIPR1	0.966887251	0.001626528
AC087294.2	VIPR1	0.987542858	0.000231804
AP001062.8	VIPR1	0.973548497	0.001040269
RP11-455F5.3	VIPR1	0.991213384	0.000115468
RP11-326C3.2	VIPR1	0.99976219	8.48E-08
AP006621.8	VIPR1	0.9934607	6.40E-05
JHDM1D-AS1	VIPR1	0.991555078	0.000106674
RP11-20I23.6	VIPR1	0.995231442	3.41E-05
RP11-160E2.19	VIPR1	0.97765871	0.000743124
AC005786.7	VIPR1	0.982280217	0.000468204
AC005944.2	VIPR1	0.965274838	0.001787819

CTB-191K22.5	VIPR1	0.954640975	0.0030395
RP11-20I23.8	VIPR1	0.993025828	7.28E-05
CDC37L1-AS1	VIPR1	0.976647567	0.000811637
RP5-1142A6.10	VIPR1	0.989385334	0.000168409
RP11-556I13.1	VIPR1	0.991546042	0.000106902
CTA-315H11.2	VNN2	-0.968742979	0.001450233
RP3-438O4.4	VNN2	0.929708838	0.007237622
NUP50-AS1	VNN2	0.922673553	0.008737887
PSMD5-AS1	VNN2	0.977815766	0.000732751
RP11-680G24.6	SERPINB2	0.830109791	0.040842281
LA16c-359F1.1	SERPINB2	0.885299514	0.018979791
TOPORS-AS1	VNN2	0.933553644	0.006475993
RP4-784A16.3	MT1P2	-0.872684218	0.023282112
AC087294.2	VNN2	0.955361857	0.002944374
RP11-767C1.1	MT1P2	0.837135955	0.037627086
CTC-1337H24.3	MT1P2	0.90720805	0.012516034
CCDC144NL-AS1	SH3BGRL	-0.916139405	0.01025402
AP001062.8	VNN2	0.934099116	0.006371289
RP11-66D17.5	SH3BGRL	0.901521819	0.01406941
RP11-455F5.3	VNN2	0.962963419	0.002032161
RP11-326C3.2	VNN2	0.992478436	8.46E-05
AP006621.8	VNN2	0.983656151	0.000398499
JHDM1D-AS1	VNN2	0.962616562	0.00207016
RP11-20I23.6	VNN2	0.97416237	0.00099275
RP11-160E2.19	VNN2	0.996473404	1.86E-05
AC005786.7	VNN2	0.952846006	0.003282825
AC005944.2	VNN2	0.946750823	0.004177719
RP11-20I23.8	VNN2	0.965966716	0.001717687
CDC37L1-AS1	VNN2	0.93733567	0.005767192
RP5-1142A6.10	VNN2	0.973677101	0.001030223
RP11-556I13.1	VNN2	0.962603393	0.00207161
AC011558.5	VNN2	0.928921942	0.007398589
CTA-315H11.2	VNN3	-0.958162005	0.00258901
RP11-66D17.5	VNN3	0.934169079	0.006357919
RP11-126K1.8	VNN3	0.9642897	0.001890069
RP3-438O4.4	VNN3	0.984833577	0.000343286
NUP50-AS1	VNN3	0.975520183	0.000891557
PSMD5-AS1	VNN3	0.988162079	0.000209375
TOPORS-AS1	VNN3	0.975233387	0.000912482
AC011558.5	SH3BGRL	0.839052106	0.036771722
AC024028.1	IRF1	0.891824239	0.016920057
AC087294.2	VNN3	0.995217821	3.42E-05
RP11-34P13.14	IRF1	0.869731256	0.024349592
RP11-93O14.2	IRF1	0.897810625	0.015130438
AP001062.8	VNN3	0.984439798	0.000361296
RP11-473M20.11	IRF1	0.849576748	0.032238907
RP11-78A19.3	IRF1	0.905990801	0.01284118
LA16c-359F1.1	IRF1	0.81628183	0.047528088
RP11-455F5.3	VNN3	0.997063822	1.29E-05
RP11-326C3.2	VNN3	0.99635631	1.99E-05
CTD-2531D15.5	PNRC1	-0.816798061	0.047270027
AP006621.8	VNN3	0.991147163	0.000117212
RP11-126K1.8	PNRC1	0.847008082	0.033319286
RP3-438O4.4	PNRC1	0.847233498	0.033223804
NUP50-AS1	PNRC1	0.84864391	0.032629316
JHDM1D-AS1	VNN3	0.997798541	7.26E-06
TOPORS-AS1	PNRC1	0.854338215	0.030280754
AC087294.2	PNRC1	0.889963285	0.017495951
AP001062.8	PNRC1	0.86450423	0.026294865
RP11-455F5.3	PNRC1	0.904205678	0.013325297
RP11-20I23.6	VNN3	0.998070376	5.58E-06
RP11-160E2.19	VNN3	0.963165519	0.00201018
JHDM1D-AS1	PNRC1	0.899813458	0.014553211

RP11-20I23.6	PNRC1	0.916277875	0.010220671
AC005786.7	VNN3	0.988981193	0.000181452
AC005786.7	PNRC1	0.881881427	0.020104001
AC005944.2	PNRC1	0.897081436	0.015343278
CTB-191K22.5	PNRC1	0.83594061	0.038165356
RP11-20I23.8	PNRC1	0.905231072	0.013046158
CDC37L1-AS1	PNRC1	0.857044524	0.029193664
RP5-1142A6.10	PNRC1	0.916907555	0.010069682
RP11-556I13.1	PNRC1	0.899702616	0.014584874
AC005944.2	VNN3	0.967435576	0.001573396
CTB-191K22.5	VNN3	0.967619832	0.001555738
RP11-20I23.8	VNN3	0.998446554	3.62E-06
CDC37L1-AS1	VNN3	0.987860913	0.000220142
RP5-1142A6.10	VNN3	0.989973625	0.000150288
RP11-556I13.1	VNN3	0.997793829	7.30E-06
RP11-66D17.5	VPS28	0.953182858	0.003236459
RP11-126K1.8	VPS28	0.946457165	0.004223504
LA16c-359F1.1	C9orf89	0.834535101	0.038802848
RP3-438O4.4	VPS28	0.957543032	0.002665625
NUP50-AS1	VPS28	0.974978579	0.000931275
PSMD5-AS1	VPS28	0.954452631	0.003064599
TOPORS-AS1	VPS28	0.982124945	0.000476421
AC087294.2	VPS28	0.965661666	0.001748437
AP001062.8	VPS28	0.967171249	0.0015989
RP11-455F5.3	VPS28	0.962933131	0.002035465
RP11-326C3.2	VPS28	0.951511862	0.003469649
RP11-680G24.6	FOSL2	0.830827398	0.040508248
LA16c-359F1.1	FOSL2	0.880533512	0.020555835
AP006621.8	VPS28	0.950795099	0.003572118
CCDC144NL-AS1	HPCAL1	-0.860829398	0.027704925
CTA-315H11.2	HPCAL1	-0.904495499	0.013246111
CTD-2541M15.3	HPCAL1	-0.812544237	0.049415928
PSMD5-AS1	HPCAL1	0.874035385	0.022801281
AC087294.2	HPCAL1	0.811830615	0.049780252
RP11-455F5.3	HPCAL1	0.826771321	0.042413124
RP11-326C3.2	HPCAL1	0.901656447	0.014031619
AP006621.8	HPCAL1	0.884260696	0.019318182
JHDM1D-AS1	HPCAL1	0.82700708	0.042301285
RP11-20I23.6	HPCAL1	0.854804495	0.030092115
JHDM1D-AS1	VPS28	0.958895242	0.002499676
AC005786.7	HPCAL1	0.816715109	0.047311145
AC005944.2	HPCAL1	0.829921019	0.040930364
RP11-20I23.8	HPCAL1	0.833849251	0.039115723
RP5-1142A6.10	HPCAL1	0.866026453	0.025721027
RP11-556I13.1	HPCAL1	0.827040136	0.042285615
RP11-20I23.6	VPS28	0.971372229	0.001217593
AC024028.1	BASP1	0.896153132	0.015616307
RP11-160E2.19	VPS28	0.919179631	0.009533941
AC011558.5	BASP1	0.887480642	0.018278627
AC005786.7	VPS28	0.982084571	0.000478569
RP11-498J9.2	RAB37	0.898914499	0.014810958
RP11-34P13.14	RAB37	0.892089984	0.016838574
RP11-93O14.2	RAB37	0.834979911	0.038600562
AC005944.2	VPS28	0.963332358	0.001992124
RP11-78A19.3	RAB37	0.848226548	0.032804707
Z69720.3	RAB37	0.862959619	0.026883286
CCDC144NL-AS1	TAL1	-0.896597197	0.015485411
CTB-191K22.5	VPS28	0.962862985	0.002043128
RP11-20I23.8	VPS28	0.961690329	0.002173334
CDC37L1-AS1	VPS28	0.949953867	0.00369425
RP5-1142A6.10	VPS28	0.981827717	0.000492347
RP11-556I13.1	VPS28	0.958790707	0.002512318
CTA-315H11.2	VSIG1	-0.967458745	0.00157117

RP11-126K1.8	VSIG1	0.950058201	0.003678993
RP3-438O4.4	VSIG1	0.968754095	0.001449207
NUP50-AS1	VSIG1	0.961465405	0.002198762
PSMD5-AS1	VSIG1	0.990453012	0.000136282
TOPORS-AS1	VSIG1	0.963643552	0.001958659
AC087294.2	VSIG1	0.985502365	0.000313749
AP001062.8	VSIG1	0.971249926	0.001227968
RP11-455F5.3	VSIG1	0.989659033	0.00015985
RP11-160E2.19	TAL1	0.901673491	0.014026838
RP11-326C3.2	VSIG1	0.999947024	4.21E-09
AP006621.8	VSIG1	0.994307058	4.85E-05
JHDM1D-AS1	VSIG1	0.989605287	0.000161514
RMRP	TAL1	0.882040595	0.020050963
RP11-20I23.6	VSIG1	0.994097899	5.21E-05
RP11-160E2.19	VSIG1	0.98057205	0.000562501
AC005786.7	VSIG1	0.980298865	0.000578379
AC005944.2	VSIG1	0.966161329	0.00169821
AC024028.1	ATP2A3	0.879972024	0.020745468
CTB-191K22.5	VSIG1	0.952580402	0.003319613
AC011558.5	ATP2A3	0.905812379	0.012889178
AC024028.1	BCL2A1	0.828134182	0.041768515
RP11-473M20.11	BCL2A1	0.904762141	0.013173459
LLNLR-284B4.1	BCL2A1	0.829250993	0.041243722
CTD-2541M15.3	BCL2A1	-0.819864393	0.04575066
RP11-160E2.19	BCL2A1	0.829609308	0.041076006
RP11-20I23.8	VSIG1	0.991371211	0.000111363
CDC37L1-AS1	VSIG1	0.973479628	0.001045669
RP11-498J9.2	BTG1	0.886968929	0.018441991
RP11-34P13.14	BTG1	0.875307111	0.022353093
RP11-93O14.2	BTG1	0.825316829	0.043106156
RP5-1142A6.10	VSIG1	0.988689971	0.000191152
RP11-78A19.3	BTG1	0.847196752	0.03323936
Z69720.3	BTG1	0.842254784	0.035362699
CTA-315H11.2	H2AFJ	-0.870709253	0.023993527
RP11-556I13.1	VSIG1	0.989586878	0.000162085
RP11-498J9.2	VSIG10L	0.982481683	0.000457649
RP11-34P13.14	VSIG10L	0.943312929	0.004729056
RP11-93O14.2	VSIG10L	0.974420579	0.000973092
RP11-485G7.6	VSIG10L	0.976492965	0.000822376
RP11-78A19.3	VSIG10L	0.966169518	0.001697393
Z69720.3	VSIG10L	0.968386545	0.001483318
RP11-770G2.2	VSIG4	0.943648252	0.004673806
CTA-315H11.2	VSTM1	-0.956995688	0.002734291
RP11-66D17.5	VSTM1	0.918594393	0.009670577
RP11-126K1.8	VSTM1	0.949633206	0.003741335
RP3-438O4.4	VSTM1	0.972084627	0.001158025
NUP50-AS1	VSTM1	0.965763396	0.001738152
RP11-160E2.19	H2AFJ	0.88160696	0.020195615
PSMD5-AS1	VSTM1	0.989066861	0.000178647
TOPORS-AS1	VSTM1	0.971901421	0.001173203
AC087294.2	VSTM1	0.986929473	0.000255142
AP001062.8	VSTM1	0.973301435	0.001059705
RP11-455F5.3	VSTM1	0.98998302	0.000150007
RP11-326C3.2	VSTM1	0.999108729	1.19E-06
AP006621.8	VSTM1	0.992237067	9.02E-05
JHDM1D-AS1	VSTM1	0.99022498	0.00014286
RP11-20I23.6	VSTM1	0.996420737	1.92E-05
RP11-498J9.2	DOK2	0.81605619	0.047641088
RP11-160E2.19	VSTM1	0.979727847	0.000612275
LLNLR-284B4.1	DOK2	0.813223495	0.049070302
AC011558.5	DOK2	0.846477098	0.03354471
RP11-473M20.11	C10orf54	0.84443226	0.03441951
LLNLR-284B4.1	C10orf54	0.811669922	0.049862461

CTD-2541M15.3	C10orf54	-0.827243578	0.042189233
RP11-160E2.19	C10orf54	0.89211194	0.016831851
AC005786.7	VSTM1	0.985753762	0.000302987
RP11-473M20.11	ZYX	0.863416287	0.026708674
LLNLR-284B4.1	ZYX	0.820294729	0.045539277
CTD-2541M15.3	ZYX	-0.819136322	0.046109328
RP11-160E2.19	ZYX	0.873501628	0.022990654
AC005944.2	VSTM1	0.968928498	0.001433159
CCDC144NL-AS1	NCOA4	-0.877058825	0.021742699
CTB-191K22.5	VSTM1	0.956087995	0.002850059
RP11-20I23.8	VSTM1	0.992097769	9.34E-05
CDC37L1-AS1	VSTM1	0.975803291	0.000871138
RP5-1142A6.10	VSTM1	0.993748522	5.85E-05
RP11-556I13.1	VSTM1	0.990218056	0.000143062
CTA-315H11.2	VTI1B	-0.927142858	0.007768876
RP11-66D17.5	VTI1B	0.960758002	0.002279687
RP11-126K1.8	VTI1B	0.977007773	0.000786886
RP3-438O4.4	VTI1B	0.99772796	7.74E-06
NUP50-AS1	VTI1B	0.987406939	0.000236879
PSMD5-AS1	VTI1B	0.972431764	0.001129535
TOPORS-AS1	VTI1B	0.983164656	0.000422757
AC087294.2	VTI1B	0.998407208	3.80E-06
AP001062.8	VTI1B	0.994264377	4.93E-05
RP11-455F5.3	VTI1B	0.996568392	1.76E-05
RP11-326C3.2	VTI1B	0.977645677	0.000743988
AP006621.8	VTI1B	0.973817215	0.001019333
JHDM1D-AS1	VTI1B	0.997927446	6.44E-06
RP11-20I23.6	VTI1B	0.991850756	9.93E-05
RP11-160E2.19	VTI1B	0.9220923	0.00886798
LL21NC02-21A1.1	NCOA4	0.814684706	0.048330611
AC005786.7	VTI1B	0.99107071	0.000119242
AC005944.2	VTI1B	0.958057448	0.002601874
RP11-770G2.2	IFI30	0.854368758	0.030268381
CTB-31O20.6	IFI30	0.825780911	0.042884462
CCDC144NL-AS1	UBE2B	-0.888776834	0.017867941
CTB-191K22.5	VTI1B	0.980514665	0.000565818
RP11-20I23.8	VTI1B	0.996880551	1.46E-05
CDC37L1-AS1	VTI1B	0.996965109	1.38E-05
RP5-1142A6.10	VTI1B	0.98027532	0.000579757
RP11-556I13.1	VTI1B	0.997929397	6.43E-06
AC024028.1	VWA1	0.951275593	0.003503264
RP11-498J9.2	VWA1	0.993572419	6.18E-05
RP11-34P13.14	VWA1	0.989612262	0.000161297
RP11-93O14.2	VWA1	0.984327412	0.00036652
RP11-485G7.6	VWA1	0.947808487	0.004014847
RP11-78A19.3	VWA1	0.977081689	0.000781855
Z69720.3	VWA1	0.994691747	4.22E-05
CTA-315H11.2	WAS	-0.957816795	0.002631603
RP3-438O4.4	WAS	0.918657159	0.009655878
PSMD5-AS1	WAS	0.9628887	0.002040317
TOPORS-AS1	WAS	0.929178442	0.00734593
AC087294.2	WAS	0.941857989	0.004972466
RP11-455F5.3	WAS	0.948729934	0.003875545
RP11-326C3.2	WAS	0.985116547	0.000330627
AP006621.8	WAS	0.969607779	0.001371494
JHDM1D-AS1	WAS	0.95099459	0.003543451
RP11-20I23.6	WAS	0.965993898	0.00171496
AC011558.5	UBE2B	0.812241736	0.049570212
CCDC144NL-AS1	ADRBK1	-0.834110473	0.038996418
CTA-315H11.2	ADRBK1	-0.87691779	0.021791545
CTD-2541M15.3	ADRBK1	-0.837185932	0.037604659
PSMD5-AS1	ADRBK1	0.872143316	0.02347594
RP11-455F5.3	ADRBK1	0.81626924	0.047534389

RP11-326C3.2	ADRBK1	0.890187361	0.017426118
AP006621.8	ADRBK1	0.879219999	0.021000755
JHDM1D-AS1	ADRBK1	0.812676425	0.049348579
RP11-20I23.6	ADRBK1	0.846229824	0.033649932
RP11-160E2.19	WAS	0.997476407	9.54E-06
AC005786.7	ADRBK1	0.81247892	0.049449223
AC005944.2	ADRBK1	0.839276433	0.036672187
RP11-20I23.8	ADRBK1	0.821246955	0.04507316
RP5-1142A6.10	ADRBK1	0.86399533	0.026488048
RP11-556I13.1	ADRBK1	0.812618087	0.049378297
AC005786.7	WAS	0.945087659	0.004440257
CCDC144NL-AS1	TNIP1	-0.875260801	0.022369339
AC005944.2	WAS	0.932365295	0.006706984
RP11-20I23.8	WAS	0.954431542	0.003067415
CDC37L1-AS1	WAS	0.927875415	0.007615339
RP5-1142A6.10	WAS	0.969391271	0.001391003
RP11-556I13.1	WAS	0.951057597	0.003534421
AC011558.5	WAS	0.947743359	0.004024785
RP11-77G23.2	WASF1	0.932317554	0.006716346
CTD-2541M15.3	WASF1	0.942844259	0.004806811
CTD-2541M15.3	WBP5	0.9219436	0.008901411
AC024028.1	WDFY4	0.986736861	0.0002627
RP11-498J9.2	WDFY4	0.988424736	0.000200205
RP11-34P13.14	WDFY4	0.958243387	0.002579018
RP11-93O14.2	WDFY4	0.947649908	0.004039065
RP11-485G7.6	WDFY4	0.937627964	0.005714084
RP11-473M20.11	WDFY4	0.959030209	0.002483401
RP11-78A19.3	WDFY4	0.954463574	0.003063138
Z69720.3	WDFY4	0.965611396	0.001753531
LLNLR-284B4.1	WDHD1	-0.945751275	0.004334561
RP11-77G23.2	WDHD1	0.954748146	0.003025264
CTD-2541M15.3	WDHD1	0.958144665	0.002591141
CTA-315H11.2	WDR13	-0.928824197	0.007418704
RP11-66D17.5	WDR13	0.969452947	0.001385432
AC011558.5	TNIP1	0.851103605	0.031604678
CCDC144NL-AS1	GRINA	-0.869857646	0.024303436
RP11-126K1.8	WDR13	0.987346602	0.00023915
RP3-438O4.4	WDR13	0.981272631	0.000522788
NUP50-AS1	WDR13	0.994198241	5.04E-05
PSMD5-AS1	WDR13	0.992246098	9.00E-05
TOPORS-AS1	WDR13	0.969334801	0.001396114
AC087294.2	WDR13	0.994017148	5.36E-05
AP001062.8	WDR13	0.995460003	3.09E-05
RP11-455F5.3	WDR13	0.994630091	4.32E-05
RP11-326C3.2	WDR13	0.979580291	0.00062119
AP006621.8	WDR13	0.989131284	0.000176552
JHDM1D-AS1	WDR13	0.989817297	0.000155003
RP11-20I23.6	WDR13	0.991324449	0.000112571
RP11-160E2.19	WDR13	0.940940671	0.005129007
AC005786.7	WDR13	0.990193409	0.000143782
AC005944.2	WDR13	0.991239831	0.000114775
CTB-191K22.5	WDR13	0.992368369	8.71E-05
RP11-20I23.8	WDR13	0.991936291	9.73E-05
CDC37L1-AS1	WDR13	0.981280626	0.000522343
RP5-1142A6.10	WDR13	0.985318492	0.000321738
RP11-556I13.1	WDR13	0.989664452	0.000159683
LL21NC02-21A1.1	GRINA	0.813860126	0.048747387
CTA-315H11.2	WDR26	-0.964566249	0.001861082
RP11-66D17.5	WDR26	0.926818051	0.00783743
AC011558.5	GRINA	0.839441147	0.036599183
RP11-126K1.8	WDR26	0.964960759	0.001820113
RP3-438O4.4	WDR26	0.981748015	0.000496662
NUP50-AS1	WDR26	0.971292631	0.00122434

PSMD5-AS1	WDR26	0.987473175	0.000234399
RP11-485G7.6	TMEM123	0.861873219	0.02730085
TOPORS-AS1	WDR26	0.968523315	0.001470579
AC087294.2	WDR26	0.993532268	6.26E-05
AP001062.8	WDR26	0.982481961	0.000457635
RP11-455F5.3	WDR26	0.996313496	2.04E-05
RP11-326C3.2	WDR26	0.995847793	2.58E-05
AP006621.8	WDR26	0.991361203	0.000111621
JHDM1D-AS1	WDR26	0.996736625	1.60E-05
RP11-20I23.6	WDR26	0.994940389	3.83E-05
RP11-160E2.19	WDR26	0.960646295	0.002292597
RP11-485G7.6	MYO1G	0.894244377	0.016184979
AC005786.7	WDR26	0.983264464	0.000417774
AC005944.2	WDR26	0.961814082	0.002159406
CTB-191K22.5	WDR26	0.963290447	0.001996652
AC024028.1	GDI1	0.873585181	0.022960961
RP11-20I23.8	WDR26	0.99709335	1.27E-05
CTD-2531D15.5	GDI1	-0.836279723	0.038012288
CCDC144NL-AS1	BAT3	-0.842422379	0.035289678
CDC37L1-AS1	WDR26	0.984894174	0.000340556
RP5-1142A6.10	WDR26	0.984152936	0.000374704
RP11-556I13.1	WDR26	0.99672022	1.61E-05
RP11-66D17.5	WDR45	0.979770696	0.000609698
RP11-126K1.8	WDR45	0.997939922	6.36E-06
RP3-438O4.4	WDR45	0.980225585	0.000582675
NUP50-AS1	WDR45	0.993625135	6.08E-05
PSMD5-AS1	WDR45	0.975195066	0.000915296
TOPORS-AS1	WDR45	0.952323753	0.003355352
AC087294.2	WDR45	0.987931627	0.00021759
AP001062.8	WDR45	0.996286796	2.07E-05
RP11-455F5.3	WDR45	0.987099474	0.000248562
RP11-326C3.2	WDR45	0.954956533	0.002997676
AP006621.8	WDR45	0.970883519	0.001259312
JHDM1D-AS1	WDR45	0.981468817	0.000511925
RP11-20I23.6	WDR45	0.973624236	0.001034347
AC005786.7	WDR45	0.975138702	0.000919443
AC005944.2	WDR45	0.975320994	0.000906065
CTB-191K22.5	WDR45	0.995822113	2.61E-05
RP11-20I23.8	WDR45	0.982018075	0.000482117
LL21NC02-21A1.1	BAT3	0.84619048	0.033666689
CDC37L1-AS1	WDR45	0.978586921	0.000682871
RP5-1142A6.10	WDR45	0.9589184	0.00249688
RP11-556I13.1	WDR45	0.981276984	0.000522545
RP11-66D17.5	WDR78	0.992675226	8.03E-05
RP11-126K1.8	WDR78	0.965485418	0.001766327
RP11-93O14.2	CD300A	0.88690599	0.018462132
RP11-485G7.6	CD300A	0.856684195	0.029337318
RP3-438O4.4	WDR78	0.974029718	0.001002925
RP11-78A19.3	CD300A	0.898892625	0.014817257
Z69720.3	CD300A	0.908733072	0.012114367
NUP50-AS1	WDR78	0.991162844	0.000116798
PSMD5-AS1	WDR78	0.947265179	0.004098115
TOPORS-AS1	WDR78	0.975925385	0.000862404
AC087294.2	WDR78	0.971818429	0.001180111
AP001062.8	WDR78	0.98100374	0.000537859
RP11-455F5.3	WDR78	0.965160583	0.001799534
RP11-326C3.2	WDR78	0.932297068	0.006720366
LA16c-359F1.1	SOCS3	0.840018325	0.036343908
AP006621.8	WDR78	0.939361988	0.005403971
AC024028.1	NDRG1	0.914697957	0.01060431
JHDM1D-AS1	WDR78	0.962000532	0.002138504
RP11-34P13.14	NDRG1	0.914077801	0.010756771
RP11-20I23.6	WDR78	0.966201354	0.001694218

AC005786.7	WDR78	0.984012327	0.000381365
RP11-473M20.11	NDRG1	0.868552577	0.024782035
AC005944.2	WDR78	0.97123544	0.0012292
LA16c-359F1.1	NDRG1	0.897223346	0.015301744
CTB-191K22.5	WDR78	0.989139142	0.000176297
CCDC144NL-AS1	SPI1	-0.821969305	0.044721057
CTA-315H11.2	SPI1	-0.871009837	0.023884594
CTD-2541M15.3	SPI1	-0.824763015	0.043371413
PSMD5-AS1	SPI1	0.867390757	0.025211836
RP11-455F5.3	SPI1	0.817904219	0.046719265
RP11-326C3.2	SPI1	0.892599266	0.016682947
AP006621.8	SPI1	0.87538879	0.022324452
JHDM1D-AS1	SPI1	0.816761449	0.047288308
RP11-20I23.6	SPI1	0.850992423	0.03165066
RP11-20I23.8	WDR78	0.963586056	0.001964821
AC005786.7	SPI1	0.819522081	0.04591913
AC005944.2	SPI1	0.834181385	0.038964061
RP11-20I23.8	SPI1	0.824723541	0.043390348
RP5-1142A6.10	SPI1	0.870723648	0.023988305
RP11-556I13.1	SPI1	0.816771011	0.047283533
CDC37L1-AS1	WDR78	0.968559858	0.001467185
LL21NC02-21A1.1	WDR78	0.917402476	0.009951772
RP11-498J9.2	NXF1	0.864467791	0.026308675
RP11-34P13.14	NXF1	0.836416113	0.037950805
RP5-1142A6.10	WDR78	0.968886083	0.001437053
Z69720.3	NXF1	0.826991764	0.042308546
CCDC144NL-AS1	POLD4	-0.87591321	0.022140982
RP11-556I13.1	WDR78	0.961898856	0.00214989
RP11-66D17.5	WDR81	0.992216376	9.06E-05
RP11-126K1.8	WDR81	0.989883653	0.000152993
RP3-438O4.4	WDR81	0.971536871	0.001203695
NUP50-AS1	WDR81	0.988165284	0.000209262
PSMD5-AS1	WDR81	0.939682978	0.005347494
TOPORS-AS1	WDR81	0.943839421	0.00464245
AC087294.2	WDR81	0.969663711	0.001366477
AP001062.8	WDR81	0.985933408	0.000295412
RP11-455F5.3	WDR81	0.964620657	0.001855405
AP006621.8	WDR81	0.932578816	0.006665189
JHDM1D-AS1	WDR81	0.958992355	0.002487961
RP11-20I23.6	WDR81	0.947560524	0.004052746
AC005786.7	WDR81	0.959954964	0.002373299
AC005944.2	WDR81	0.951746845	0.003436375
CTB-191K22.5	WDR81	0.991443494	0.000109507
RP11-20I23.8	WDR81	0.958416481	0.002557831
CDC37L1-AS1	WDR81	0.965373729	0.00177771
LL21NC02-21A1.1	WDR81	0.935443447	0.006116802
RP5-1142A6.10	WDR81	0.932854058	0.0066115
RP11-556I13.1	WDR81	0.958796051	0.002511671
CTA-315H11.2	WDR82P1	-0.956098988	0.002848643
AC011558.5	POLD4	0.849128376	0.032426282
RP11-66D17.5	WDR82P1	0.937837068	0.005676239
RP11-126K1.8	WDR82P1	0.962219024	0.002114139
RP3-438O4.4	WDR82P1	0.99044091	0.000136628
NUP50-AS1	WDR82P1	0.973327486	0.001057647
PSMD5-AS1	WDR82P1	0.977636952	0.000744567
TOPORS-AS1	WDR82P1	0.971650898	0.001194116
AC087294.2	WDR82P1	0.994511996	4.51E-05
LA16c-359F1.1	KCNAB2	0.847668067	0.033040094
AP001062.8	WDR82P1	0.983686307	0.000397034
RP11-455F5.3	WDR82P1	0.994708646	4.19E-05
RP11-326C3.2	WDR82P1	0.987597229	0.000229789
AP006621.8	WDR82P1	0.980788665	0.000550068
JHDM1D-AS1	WDR82P1	0.99773516	7.69E-06

RP11-20I23.6	WDR82P1	0.993220608	6.88E-05
RP11-160E2.19	WDR82P1	0.945286185	0.004408507
RP11-485G7.6	EPX	0.90926654	0.011975357
AC005786.7	WDR82P1	0.985391592	0.00031855
AC005944.2	WDR82P1	0.957014093	0.002731968
LA16c-359F1.1	EPX	0.839922105	0.036386406
CTB-191K22.5	WDR82P1	0.967586858	0.001558891
RP11-20I23.8	WDR82P1	0.997133537	1.23E-05
CDC37L1-AS1	WDR82P1	0.994768772	4.10E-05
RP5-1142A6.10	WDR82P1	0.980670308	0.000556844
RP11-556I13.1	WDR82P1	0.997781836	7.37E-06
CTA-315H11.2	WDR86	-0.959276775	0.002453804
RP11-66D17.5	WDR86	0.928180947	0.007551744
RP11-126K1.8	WDR86	0.963314332	0.001994071
RP11-680G24.6	CREM	0.847558777	0.03308625
LA16c-359F1.1	CREM	0.906917575	0.012593258
RP3-438O4.4	WDR86	0.97823866	0.000705181
CTA-315H11.2	FIS1	-0.900583482	0.014334167
NUP50-AS1	WDR86	0.973020055	0.001082057
PSMD5-AS1	WDR86	0.991313343	0.000112859
TOPORS-AS1	WDR86	0.971752256	0.001185633
AC087294.2	WDR86	0.992422897	8.59E-05
AP001062.8	WDR86	0.981740767	0.000497056
RP11-455F5.3	WDR86	0.995416961	3.15E-05
RP11-326C3.2	WDR86	0.998031084	5.81E-06
AP006621.8	WDR86	0.994305065	4.86E-05
JHDM1D-AS1	WDR86	0.994791417	4.06E-05
RP11-20I23.6	WDR86	0.996974619	1.37E-05
RP11-160E2.19	WDR86	0.969421768	0.001388247
AC005786.7	WDR86	0.986454679	0.000273971
AC005944.2	WDR86	0.969664343	0.00136642
RP11-160E2.19	FIS1	0.90424041	0.013315796
CTB-191K22.5	WDR86	0.964399549	0.001878528
RP11-20I23.8	WDR86	0.99606299	2.32E-05
CDC37L1-AS1	WDR86	0.980845366	0.000546836
RP5-1142A6.10	WDR86	0.990342709	0.000139445
RP11-556I13.1	WDR86	0.994754298	4.12E-05
LL21NC02-21A1.1	FIS1	0.907406935	0.012463291
RP11-93O14.2	WDR90	-0.950250577	0.003650943
RP11-78A19.3	WDR90	-0.945099425	0.004438373
RP11-680G24.6	WDR90	-0.933951815	0.006399481
LA16c-359F1.1	WDR90	-0.942870185	0.004802493
RP11-66D17.5	WDSUB1	-0.990127797	0.00014571
RP11-93O14.2	NINJ1	0.915125845	0.010499733
RP11-485G7.6	NINJ1	0.909637646	0.011879112
RP11-126K1.8	WDSUB1	-0.986571133	0.000269291
RP3-438O4.4	WDSUB1	-0.960274383	0.002335841
NUP50-AS1	WDSUB1	-0.990179032	0.000144204
PSMD5-AS1	WDSUB1	-0.962541971	0.002078377
TOPORS-AS1	WDSUB1	-0.940218837	0.005253859
AC087294.2	WDSUB1	-0.968823276	0.00144283
AP001062.8	WDSUB1	-0.983629555	0.000399794
RP11-455F5.3	WDSUB1	-0.966183523	0.001695996
RP11-326C3.2	WDSUB1	-0.929769731	0.007225238
AP006621.8	WDSUB1	-0.952909869	0.00327401
LA16c-359F1.1	ITM2C	0.849573282	0.032240354
JHDM1D-AS1	WDSUB1	-0.957663667	0.002650607
RP11-20I23.6	WDSUB1	-0.956776019	0.002762091
AC005786.7	WDSUB1	-0.966646228	0.001650159
AC005944.2	WDSUB1	-0.984146082	0.000375028
CTB-191K22.5	WDSUB1	-0.996265159	2.09E-05
RP11-20I23.8	WDSUB1	-0.960196529	0.002344944
CDC37L1-AS1	WDSUB1	-0.957566831	0.002662659

LL21NC02-21A1.1	WDSUB1	-0.938808189	0.005502092
LA16c-359F1.1	DDAH2	0.856218841	0.029523337
RP5-1142A6.10	WDSUB1	-0.950267117	0.003648536
CCDC144NL-AS1	RNASET2	-0.859876581	0.028076227
CTA-315H11.2	RNASET2	-0.914423488	0.010671656
RP11-126K1.8	RNASET2	0.821636334	0.044883201
RP3-438O4.4	RNASET2	0.843953779	0.034625739
NUP50-AS1	RNASET2	0.846846834	0.033387666
RP11-556I13.1	WDSUB1	-0.95740517	0.002682839
TOPORS-AS1	RNASET2	0.872765157	0.023253174
AC087294.2	RNASET2	0.881297567	0.020299127
AP001062.8	RNASET2	0.853890687	0.030462331
RP11-455F5.3	RNASET2	0.892053672	0.016849697
CCDC144NL-AS1	WDYHV1	0.973699293	0.001028494
CTA-315H11.2	WDYHV1	0.971201533	0.001232086
JHDM1D-AS1	RNASET2	0.889898372	0.017516206
RP11-20I23.6	RNASET2	0.916981252	0.010052082
PSMD5-AS1	WDYHV1	-0.952971003	0.003265582
AC005786.7	RNASET2	0.892183075	0.016810076
AC005944.2	RNASET2	0.90131166	0.014128501
CTB-191K22.5	RNASET2	0.831567151	0.040165248
RP11-20I23.8	RNASET2	0.896533351	0.015504198
CDC37L1-AS1	RNASET2	0.853003948	0.030823626
AC087294.2	WDYHV1	-0.93346859	0.006492394
RP11-556I13.1	RNASET2	0.889866861	0.017526043
RP11-455F5.3	WDYHV1	-0.944591036	0.004520173
RP11-326C3.2	WDYHV1	-0.969433452	0.001387191
AP006621.8	WDYHV1	-0.963452955	0.001979122
JHDM1D-AS1	WDYHV1	-0.942658311	0.004837832
RP11-20I23.6	WDYHV1	-0.94183187	0.00497689
RP11-160E2.19	WDYHV1	-0.9545247	0.003054983
RP11-20I23.8	WDYHV1	-0.943790569	0.004650453
RP5-1142A6.10	WDYHV1	-0.927576538	0.007677801
LA16c-359F1.1	LAT2	0.852725036	0.030937682
RP11-556I13.1	WDYHV1	-0.942585092	0.004850074
CCDC144NL-AS1	YBX1	-0.842476714	0.03526602
AC011558.5	WHSC1	-0.943094963	0.00476514
AC011558.5	WIPF1	0.960564801	0.002302039
CTA-315H11.2	WNK2	-0.921556267	0.00898878
RP11-66D17.5	WNK2	0.976942243	0.000791361
RP11-126K1.8	WNK2	0.995474918	3.07E-05
RP3-438O4.4	WNK2	0.985167687	0.000328365
NUP50-AS1	WNK2	0.996093213	2.29E-05
PSMD5-AS1	WNK2	0.983468065	0.000407698
TOPORS-AS1	WNK2	0.964096318	0.00191047
AC087294.2	WNK2	0.993984021	5.42E-05
AP001062.8	WNK2	0.998821383	2.08E-06
RP11-455F5.3	WNK2	0.993585625	6.16E-05
RP11-326C3.2	WNK2	0.968399586	0.001482101
AP006621.8	WNK2	0.980208735	0.000583665
JHDM1D-AS1	WNK2	0.98885916	0.000185486
RP11-20I23.6	WNK2	0.984222827	0.000371415
AC005786.7	WNK2	0.984549315	0.000356241
AC005944.2	WNK2	0.981330973	0.000519545
RMRP	YBX1	0.813101492	0.049132298
CTB-191K22.5	WNK2	0.995819122	2.62E-05
RP11-20I23.8	WNK2	0.989750396	0.000157043
LL21NC02-21A1.1	YBX1	0.839989562	0.03635661
CDC37L1-AS1	WNK2	0.983992886	0.000382291
RP5-1142A6.10	WNK2	0.97265443	0.001111446
RP11-473M20.11	YPEL5	0.836995344	0.037690218
CCDC144NL-AS1	YPEL5	-0.851512644	0.031435781
CTD-2531D15.5	YPEL5	-0.856890268	0.029255121

CTA-315H11.2	YPEL5	-0.820569856	0.045404372
RP11-160E2.19	YPEL5	0.878299885	0.021315132
RP11-556I13.1	WNK2	0.988697863	0.000190886
AC024028.1	CD48	0.821571309	0.044914898
RP11-473M20.11	CD48	0.899620867	0.014608247
RP11-160E2.19	CD48	0.838079166	0.037204886
AC011558.5	WNK3	-0.929185383	0.007344508
CTA-315H11.2	WNT10B	-0.962096279	0.00212781
RP11-66D17.5	WNT10B	0.928823816	0.007418783
RP11-34P13.14	RETN	0.853413493	0.03065651
RP11-93O14.2	RETN	0.861802586	0.027328105
RP11-485G7.6	RETN	0.900808217	0.01427054
RP11-126K1.8	WNT10B	0.961953931	0.002143719
RP11-78A19.3	RETN	0.868820803	0.024683308
LLNLR-284B4.1	RETN	0.844801773	0.034260644
Z69720.3	RETN	0.886842995	0.018482302
RP3-438O4.4	WNT10B	0.97980047	0.000607911
NUP50-AS1	WNT10B	0.97263787	0.001112786
PSMD5-AS1	WNT10B	0.990952529	0.000122415
TOPORS-AS1	WNT10B	0.971240967	0.00122873
AC087294.2	WNT10B	0.992888803	7.57E-05
AP001062.8	WNT10B	0.981548034	0.000507571
RP11-455F5.3	WNT10B	0.995604815	2.89E-05
RP11-680G24.6	CLDND1	0.854436213	0.030241062
LA16c-359F1.1	CLDND1	0.909730357	0.011855127
RP11-326C3.2	WNT10B	0.998167339	5.03E-06
AC024028.1	MBOAT7	0.821984368	0.044713729
RP11-473M20.11	MBOAT7	0.867305289	0.025243593
AP006621.8	WNT10B	0.993895271	5.58E-05
RP11-91K8.5	MBOAT7	-0.905677544	0.012925508
AC011558.5	MBOAT7	0.871675438	0.023644217
CCDC144NL-AS1	TRBC2	-0.890864591	0.017215876
JHDM1D-AS1	WNT10B	0.995659993	2.82E-05
RP11-20I23.6	WNT10B	0.997476207	9.55E-06
RP11-160E2.19	WNT10B	0.969822675	0.001352266
AC005786.7	WNT10B	0.986887614	0.000256775
AC005944.2	WNT10B	0.969927789	0.001342909
CTB-191K22.5	WNT10B	0.96488292	0.001828161
RP11-20I23.8	WNT10B	0.996825162	1.51E-05
CDC37L1-AS1	WNT10B	0.983396052	0.000411248
RP5-1142A6.10	WNT10B	0.990296613	0.000140777
RP11-556I13.1	WNT10B	0.995639545	2.85E-05
CTA-315H11.2	WRB	0.936804968	0.00586423
RP3-438O4.4	WRB	-0.927022369	0.007794272
PSMD5-AS1	WRB	-0.94977565	0.003720383
TOPORS-AS1	WRB	-0.922690207	0.008734173
AC087294.2	WRB	-0.939030888	0.005462531
AP001062.8	WRB	-0.918090128	0.009789065
RP11-455F5.3	WRB	-0.94106978	0.005106831
RP11-326C3.2	WRB	-0.962084168	0.002129161
AP006621.8	WRB	-0.951206895	0.003513068
JHDM1D-AS1	WRB	-0.945461793	0.004380514
RP11-20I23.6	WRB	-0.958085565	0.002598412
RP11-160E2.19	WRB	-0.967299706	0.00158648
AC011558.5	TRBC2	0.861309679	0.027518653
AC005786.7	WRB	-0.946554928	0.004208234
AC005944.2	WRB	-0.941929143	0.004960423
RP11-20I23.8	WRB	-0.948644971	0.003888288
CDC37L1-AS1	WRB	-0.940132945	0.005268813
RP5-1142A6.10	WRB	-0.959915804	0.002377912
RP11-473M20.11	G0S2	0.882016064	0.020059133
RP11-556I13.1	WRB	-0.945570336	0.004363256
LA16c-359F1.1	G0S2	0.884686619	0.019179093

CTD-2541M15.3	WRN	0.930933786	0.006990485
CTA-315H11.2	TRAPPC5	-0.85033148	0.031924662
RP5-1033H22.2	WSCD2	0.945368698	0.004395343
RP11-21J18.1	WSCD2	0.967013268	0.00161424
RP11-298J23.8	WSCD2	0.939686104	0.005346945
RP11-165D6.1	WSCD2	0.965572304	0.001757496
RP3-339A18.6	WT1	0.936984202	0.005831369
RP5-1033H22.2	WT1-AS	0.955332842	0.002948173
RP11-298J23.8	WT1-AS	0.936780227	0.005868773
RP11-165D6.1	WT1-AS	0.939923064	0.005305441
RP11-118G23.2	WWC2	0.943418674	0.004711599
RP11-680G24.6	WWC2	0.989630547	0.000160731
LA16c-359F1.1	WWC2	0.954747736	0.003025318
AC024028.1	WWTR1	0.990441067	0.000136623
RP11-498J9.2	WWTR1	0.989670305	0.000159503
RP11-160E2.19	TRAPPC5	0.891325811	0.017073394
RP11-34P13.14	WWTR1	0.967265822	0.001589752
RP11-93O14.2	WWTR1	0.957913406	0.002619648
RP11-485G7.6	WWTR1	0.932263706	0.006726914
RP11-473M20.11	WWTR1	0.961853614	0.002154966
RP11-78A19.3	WWTR1	0.963165887	0.00201014
Z69720.3	WWTR1	0.963917856	0.001929394
CTA-315H11.2	XG	-0.945741186	0.004336159
RP11-66D17.5	XG	0.950244931	0.003651764
CCDC144NL-AS1	GPSM3	-0.862620105	0.027013452
CTA-315H11.2	GPSM3	-0.911130672	0.011495702
RP3-438O4.4	GPSM3	0.814113742	0.048619022
PSMD5-AS1	GPSM3	0.902562364	0.013778598
TOPORS-AS1	GPSM3	0.842593783	0.035215071
AC087294.2	GPSM3	0.852286859	0.031117269
AP001062.8	GPSM3	0.817933418	0.046704767
RP11-455F5.3	GPSM3	0.864527294	0.026286126
RP11-126K1.8	XG	0.97284269	0.001096265
AP006621.8	GPSM3	0.911503618	0.01140088
JHDM1D-AS1	GPSM3	0.864869984	0.026156437
RP11-20I23.6	GPSM3	0.892069518	0.016844843
RP3-438O4.4	XG	0.993698542	5.94E-05
AC005786.7	GPSM3	0.861260961	0.027537521
AC005944.2	GPSM3	0.864609266	0.026255076
RP11-20I23.8	GPSM3	0.871136366	0.02383881
CDC37L1-AS1	GPSM3	0.826065927	0.042748573
RP5-1142A6.10	GPSM3	0.905156078	0.013066476
RP11-556I13.1	GPSM3	0.864906111	0.026142782
NUP50-AS1	XG	0.983525845	0.000404861
PSMD5-AS1	XG	0.982245427	0.000470039
TOPORS-AS1	XG	0.980052526	0.000592884
AC087294.2	XG	0.998911004	1.78E-06
AP001062.8	XG	0.991493281	0.000108239
RP11-455F5.3	XG	0.998826662	2.06E-06
RP11-326C3.2	XG	0.988496209	0.000197745
AP006621.8	XG	0.984286293	0.000368441
RP11-680G24.6	SLC22A17	0.845224206	0.03407945
LA16c-359F1.1	SLC22A17	0.895568944	0.015789314
JHDM1D-AS1	XG	0.999999212	9.32E-13
AC024028.1	HCLS1	0.845067454	0.034146633
RP11-473M20.11	HCLS1	0.909945366	0.011799591
CTD-2541M15.3	HCLS1	-0.850510715	0.031850247
RP11-20I23.6	XG	0.996735909	1.60E-05
RP11-160E2.19	XG	0.943792601	0.00465012
AC005786.7	XG	0.991761865	0.000101521
AC005944.2	XG	0.965172813	0.001798278
CTB-191K22.5	XG	0.976773127	0.000802966
RP11-20I23.8	XG	0.999768356	8.05E-08

CDC37L1-AS1	XG	0.995258828	3.37E-05
RP5-1142A6.10	XG	0.986392451	0.000276488
RP11-680G24.6	NAMPT	0.846934904	0.03335031
LA16c-359F1.1	NAMPT	0.89861338	0.014897781
RP11-556I13.1	XG	1	0
RP5-1033H22.2	XIRP1	0.966818372	0.001633264
RP11-21J18.1	XIRP1	0.949648799	0.003739039
RP11-298J23.8	XIRP1	0.956806123	0.002758273
RP11-165D6.1	XIRP1	0.977838357	0.000731265
CTA-315H11.2	XPO7	-0.937301473	0.005773421
RP11-66D17.5	XPO7	0.955808249	0.002886215
RP11-126K1.8	XPO7	0.989801737	0.000155477
RP11-680G24.6	PLAUR	0.825112893	0.043203746
LA16c-359F1.1	PLAUR	0.881351246	0.02028115
RP3-438O4.4	XPO7	0.985749096	0.000303185
NUP50-AS1	XPO7	0.983623171	0.000400105
PSMD5-AS1	XPO7	0.975404258	0.000899986
TOPORS-AS1	XPO7	0.957619323	0.002656122
AC087294.2	XPO7	0.992753408	7.86E-05
AP001062.8	XPO7	0.993369618	6.58E-05
RP11-455F5.3	XPO7	0.993403706	6.51E-05
RP11-326C3.2	XPO7	0.969646403	0.001368028
RP11-680G24.6	SNHG12	0.824399656	0.043545861
LA16c-359F1.1	SNHG12	0.858085278	0.028780616
AP006621.8	XPO7	0.97612844	0.000847975
RP11-473M20.11	COTL1	0.835492153	0.038368223
CTA-315H11.2	COTL1	-0.815646658	0.047846501
CTD-2541M15.3	COTL1	-0.824535934	0.043480396
RP11-160E2.19	COTL1	0.901330335	0.014123245
JHDM1D-AS1	XPO7	0.991008789	0.000120899
CCDC144NL-AS1	EPB49	-0.868545839	0.024784518
RP11-20I23.6	XPO7	0.980068173	0.000591957
AC005786.7	XPO7	0.974671239	0.000954194
AC005944.2	XPO7	0.957228729	0.00270495
CTB-191K22.5	XPO7	0.980673237	0.000556676
RP11-20I23.8	XPO7	0.990137239	0.000145431
CDC37L1-AS1	XPO7	0.985086356	0.000331967
RP5-1142A6.10	XPO7	0.961584788	0.002185248
RP11-556I13.1	XPO7	0.990900464	0.000123826
LLNLR-284B4.1	XRCC2	-0.935867119	0.00603765
RP11-77G23.2	XRCC2	0.94178799	0.004984327
CCDC144NL-AS1	XRN1	-0.959893092	0.002380589
CTA-315H11.2	XRN1	-0.947073422	0.004127704
AC087294.2	XRN1	0.91991451	0.009363707
RP11-455F5.3	XRN1	0.927392976	0.007716286
RP11-326C3.2	XRN1	0.934001501	0.006389965
AP006621.8	XRN1	0.919574325	0.009442325
JHDM1D-AS1	XRN1	0.931482149	0.006881209
RP11-20I23.8	XRN1	0.927878686	0.007614657
RP11-556I13.1	XRN1	0.931543221	0.00686909
LL21NC02-21A1.1	EPB49	0.82250895	0.044458853
RP11-680G24.6	SMYD3	0.819850111	0.045757683
LA16c-359F1.1	SMYD3	0.874014835	0.022808558
CCDC144NL-AS1	ICAM3	-0.852514621	0.031023859
CTA-315H11.2	ICAM3	-0.882446104	0.019916144
PSMD5-AS1	ICAM3	0.860879891	0.027685314
RP11-326C3.2	ICAM3	0.886069133	0.018730939
AP006621.8	ICAM3	0.870709645	0.023993385
RP11-20I23.6	ICAM3	0.837162829	0.037615026
AC005944.2	ICAM3	0.817590191	0.046875316
RP11-20I23.8	ICAM3	0.813843823	0.048755644
RP5-1142A6.10	ICAM3	0.851836975	0.031302165
AC024028.1	FLNA	0.894553754	0.016092143

RP11-34P13.14	FLNA	0.816264304	0.04753686
RP11-473M20.11	FLNA	0.90781502	0.012355409
RP3-337H4.8	FLNA	-0.834027008	0.039034519
CTD-2139B15.2	FLNA	-0.834503017	0.038817458
RP11-91K8.5	FLNA	-0.883894241	0.019438236
RP11-680G24.6	IL1RN	0.826231944	0.042669513
LA16c-359F1.1	IL1RN	0.874070006	0.022789023
LA16c-359F1.1	CMTM7	0.829251614	0.041243431
RP11-118G23.2	CTSB	-0.820239456	0.045566402
RP11-326C3.2	CTSB	0.906783684	0.012628931
AP006621.8	CTSB	0.915251778	0.01046905
RP11-160E2.19	CTSB	0.853709673	0.03053592
LL21NC02-21A1.1	CTSB	0.912873324	0.011055895
RP11-680G24.6	ST3GAL4	0.836167396	0.038062958
LA16c-359F1.1	ST3GAL4	0.891125732	0.017135133
RP11-680G24.6	ANKRD44	0.813834791	0.048760219
LA16c-359F1.1	ANKRD44	0.862080635	0.027220893
AC024028.1	XYLT1	0.992625389	8.14E-05
RP11-498J9.2	XYLT1	0.989159761	0.000175629
RP11-34P13.14	XYLT1	0.973119361	0.001074142
RP11-93O14.2	XYLT1	0.956848864	0.002752857
RP11-485G7.6	XYLT1	0.925564422	0.008104772
RP11-473M20.11	XYLT1	0.963750297	0.001947245
RP11-78A19.3	XYLT1	0.961785701	0.002162596
Z69720.3	XYLT1	0.967913966	0.001527754
RP11-680G24.6	SERTAD1	0.819702435	0.045830332
LA16c-359F1.1	SERTAD1	0.870097021	0.024216133
LLNLR-284B4.1	IFITM3	0.882922413	0.019758341
RP4-784A16.3	IFITM3	-0.834569411	0.038787227
RP11-77G23.2	IFITM3	-0.915842177	0.010325783
RP11-473M20.11	CD55	0.852092712	0.031196997
CCDC144NL-AS1	CD55	-0.81402525	0.048663793
CTA-315H11.2	CD55	-0.820711233	0.045335122
CTD-2139B15.2	CD55	-0.832348055	0.039804651
RP11-160E2.19	CD55	0.879580975	0.02087803
RP11-498J9.2	CXCR4	0.81654227	0.047397813
AC011558.5	CXCR4	0.837448467	0.037486951
RP11-498J9.2	C1orf228	0.875059144	0.022440149
RP11-34P13.14	C1orf228	0.859856541	0.028084062
CTA-315H11.2	YBX1	-0.92366113	0.008518998
RP11-78A19.3	C1orf228	0.820898733	0.045243357
Z69720.3	C1orf228	0.830652638	0.040589477
CCDC144NL-AS1	BSG	-0.845792116	0.03383657
RP11-66D17.5	YBX1	0.963250771	0.002000944
RP11-126K1.8	YBX1	0.977354894	0.000763395
RP3-438O4.4	YBX1	0.998094365	5.44E-06
NUP50-AS1	YBX1	0.988712515	0.000190392
PSMD5-AS1	YBX1	0.97205731	0.001160282
TOPORS-AS1	YBX1	0.984626032	0.000352721
AC087294.2	YBX1	0.998442481	3.64E-06
AP001062.8	YBX1	0.994810223	4.03E-05
RP11-455F5.3	YBX1	0.996322276	2.03E-05
RP11-326C3.2	YBX1	0.976745347	0.000804881
AP006621.8	YBX1	0.973095655	0.001076028
JHDM1D-AS1	YBX1	0.997570648	8.85E-06
RP11-20I23.6	YBX1	0.991954207	9.68E-05
RP11-160E2.19	YBX1	0.921112896	0.009089299
AC005786.7	YBX1	0.99212481	9.28E-05
AC005944.2	YBX1	0.959254406	0.002456482
CTB-191K22.5	YBX1	0.981826442	0.000492416
RP11-20I23.8	YBX1	0.99660187	1.73E-05
CDC37L1-AS1	YBX1	0.997014693	1.34E-05
RP5-1142A6.10	YBX1	0.981097247	0.000532594

LL21NC02-21A1.1	BSG	0.853338724	0.030686987
RP11-556I13.1	YBX1	0.997570525	8.85E-06
RP11-498J9.2	YES1	0.980355243	0.000575084
RP11-118G23.2	ATP5I	-0.850330155	0.031925212
RP11-34P13.14	YES1	0.984727967	0.000348071
RP11-93O14.2	YES1	0.995031239	3.70E-05
RP3-438O4.4	ATP5I	0.870704208	0.023995358
RP11-485G7.6	YES1	0.949613112	0.003744296
PSMD5-AS1	ATP5I	0.885583574	0.018887758
TOPORS-AS1	ATP5I	0.848885284	0.032528084
AC087294.2	ATP5I	0.881820995	0.020124155
AP001062.8	ATP5I	0.913573795	0.010881454
RP11-455F5.3	ATP5I	0.877234811	0.021681822
RP11-326C3.2	ATP5I	0.823119472	0.044163076
AP006621.8	ATP5I	0.866828519	0.025421091
JHDM1D-AS1	ATP5I	0.861285006	0.027528208
RP11-20I23.6	ATP5I	0.863715237	0.02659466
AC005786.7	ATP5I	0.885462324	0.018927016
RP11-78A19.3	YES1	0.986766688	0.000261522
RP11-680G24.6	YES1	0.929016797	0.007379094
RP11-20I23.8	ATP5I	0.86616531	0.025668981
CDC37L1-AS1	ATP5I	0.864709037	0.026217308
LA16c-359F1.1	YES1	0.946080712	0.004282555
RP5-1142A6.10	ATP5I	0.862146719	0.027195441
RP11-556I13.1	ATP5I	0.860832052	0.027703894
CCDC144NL-AS1	GUK1	-0.86266008	0.02699811
Z69720.3	YES1	0.982463926	0.000458575
CTA-315H11.2	YIPF6	-0.946787291	0.00417205
RP11-66D17.5	YIPF6	0.955318121	0.002950102
RP11-126K1.8	YIPF6	0.979647699	0.000617109
RP3-438O4.4	YIPF6	0.99266512	8.05E-05
NUP50-AS1	YIPF6	0.98656655	0.000269474
PSMD5-AS1	YIPF6	0.985105522	0.000331116
TOPORS-AS1	YIPF6	0.975245863	0.000911567
AC087294.2	YIPF6	0.999313929	7.06E-07
AP001062.8	YIPF6	0.994229445	4.99E-05
RP11-455F5.3	YIPF6	0.999551052	3.02E-07
RP11-326C3.2	YIPF6	0.986477327	0.000273058
AP006621.8	YIPF6	0.986208689	0.000283989
JHDM1D-AS1	YIPF6	0.999398075	5.43E-07
RP11-20I23.6	YIPF6	0.995222736	3.42E-05
RP11-160E2.19	YIPF6	0.940160908	0.005263942
AC005786.7	YIPF6	0.990198621	0.00014363
AC005944.2	YIPF6	0.969917286	0.001343843
CTB-191K22.5	YIPF6	0.981687644	0.000499943
RP11-20I23.8	YIPF6	0.999384705	5.68E-07
LL21NC02-21A1.1	GUK1	0.82824049	0.041718427
CDC37L1-AS1	YIPF6	0.99419213	5.05E-05
RP5-1142A6.10	YIPF6	0.983548945	0.00040373
CTA-315H11.2	VPS28	-0.848476443	0.032699638
RP11-556I13.1	YIPF6	0.99936095	6.12E-07
CTA-315H11.2	YOD1	-0.941258687	0.005074468
RP11-66D17.5	YOD1	0.941751052	0.004990592
RP11-126K1.8	YOD1	0.972973086	0.00108581
RP3-438O4.4	YOD1	0.991339638	0.000112178
NUP50-AS1	YOD1	0.975566418	0.000888206
PSMD5-AS1	YOD1	0.968660952	0.001457814
TOPORS-AS1	YOD1	0.969954119	0.00134057
AC087294.2	YOD1	0.993803063	5.75E-05
AP001062.8	YOD1	0.987445117	0.000235448
RP11-455F5.3	YOD1	0.993673732	5.99E-05
RP11-326C3.2	YOD1	0.976954256	0.00079054
AP006621.8	YOD1	0.97238315	0.001133504

JHDM1D-AS1	YOD1	0.995408112	3.16E-05
RP11-20I23.6	YOD1	0.985390062	0.000318616
RP11-160E2.19	YOD1	0.918680661	0.009650377
AC005786.7	YOD1	0.979031786	0.000654889
AC005944.2	YOD1	0.943351588	0.00472267
CTB-191K22.5	YOD1	0.968051455	0.001514759
LL21NC02-21A1.1	VPS28	0.827558729	0.042040132
RP11-20I23.8	YOD1	0.993624137	6.08E-05
CDC37L1-AS1	YOD1	0.991501084	0.00010804
RP5-1142A6.10	YOD1	0.968617909	0.0014618
RP11-556I13.1	YOD1	0.995413644	3.15E-05
RP11-66D17.5	UBE2D3	0.883881656	0.019442366
AC011558.5	YPEL5	0.935889324	0.006033515
RP11-34P13.14	YTHDF3	0.93697136	0.00583372
RP11-93O14.2	YTHDF3	0.92248215	0.008780623
RP11-680G24.6	YTHDF3	0.979760424	0.000610315
LA16c-359F1.1	YTHDF3	0.924775211	0.008275314
RP11-498J9.2	YWHAZP2	0.97445952	0.000970144
RP11-34P13.14	YWHAZP2	0.984067837	0.000378729
RP11-93O14.2	YWHAZP2	0.984474661	0.000359683
RP11-485G7.6	YWHAZP2	0.938512236	0.005554883
RP11-78A19.3	YWHAZP2	0.972199755	0.001148538
RP11-680G24.6	YWHAZP2	0.929262442	0.007328725
LA16c-359F1.1	YWHAZP2	0.934599589	0.006275955
Z69720.3	YWHAZP2	0.988508988	0.000197306
CTA-315H11.2	YY1AP1	-0.940571057	0.005192753
RP11-66D17.5	YY1AP1	0.957073764	0.002724443
RP11-126K1.8	YY1AP1	0.977526216	0.000751931
RP3-438O4.4	YY1AP1	0.994362034	4.76E-05
NUP50-AS1	YY1AP1	0.987708638	0.000225688
PSMD5-AS1	YY1AP1	0.983356145	0.000413222
TOPORS-AS1	YY1AP1	0.980976901	0.000539375
AC011558.5	UBE2D3	0.868580321	0.024771815
AC087294.2	YY1AP1	0.999767013	8.14E-08
AP001062.8	YY1AP1	0.994378163	4.73E-05
RP11-455F5.3	YY1AP1	0.999404008	5.33E-07
RP11-93O14.2	LAT	0.881204894	0.020330181
RP11-326C3.2	YY1AP1	0.986558892	0.000269781
RP11-78A19.3	LAT	0.883025213	0.019724362
Z69720.3	LAT	0.914219316	0.010721888
CCDC144NL-AS1	PIM1	-0.880478991	0.020574212
AP006621.8	YY1AP1	0.984470614	0.00035987
JHDM1D-AS1	YY1AP1	0.999703953	1.31E-07
RP11-20I23.6	YY1AP1	0.99664331	1.69E-05
RP11-160E2.19	YY1AP1	0.940473242	0.005209688
AC005786.7	YY1AP1	0.993193677	6.93E-05
AC005944.2	YY1AP1	0.969334601	0.001396132
CTB-191K22.5	YY1AP1	0.981607566	0.000504312
RP11-20I23.8	YY1AP1	0.999666659	1.67E-07
CDC37L1-AS1	YY1AP1	0.995156915	3.51E-05
RP5-1142A6.10	YY1AP1	0.986785205	0.000260792
RP11-556I13.1	YY1AP1	0.999681699	1.52E-07
LL21NC02-21A1.1	PIM1	0.817004337	0.047167093
AC011558.5	PIM1	0.821304648	0.045044991
CCDC144NL-AS1	CORO1A	-0.8928644	0.016602202
RP11-66D17.5	CORO1A	0.852310074	0.031107742
RP11-126K1.8	CORO1A	0.898081115	0.015051849
CTB-191K22.5	CORO1A	0.904616692	0.013213066
RP11-34P13.14	ALOX5AP	0.897999131	0.015075648
RP11-93O14.2	ALOX5AP	0.85724421	0.029114198
RP11-485G7.6	ALOX5AP	0.823406526	0.044024326
RP11-78A19.3	ALOX5AP	0.871736004	0.023622402
Z69720.3	ALOX5AP	0.879692333	0.020840239

AC024028.1	RGS2	0.902072781	0.013915062
CTD-2139B15.2	RGS2	-0.819731554	0.045816003
AC011558.5	RGS2	0.877188929	0.021697686
RP11-498J9.2	CD53	0.850555491	0.031831671
RP11-34P13.14	CD53	0.872251305	0.023437181
CTA-315H11.2	ZAP70	-0.95936327	0.002443463
Z69720.3	CD53	0.826431263	0.042574685
CTD-2139B15.2	CD53	-0.81190844	0.04974046
RP11-66D17.5	ZAP70	0.93224057	0.006731457
RP11-126K1.8	ZAP70	0.96344459	0.001980023
RP3-438O4.4	ZAP70	0.983324492	0.00041479
NUP50-AS1	ZAP70	0.97452852	0.000964932
RP11-485G7.6	CCNL1	0.862536368	0.027045601
PSMD5-AS1	ZAP70	0.98893399	0.000183007
TOPORS-AS1	ZAP70	0.974212211	0.000988941
LA16c-359F1.1	CCNL1	0.833604858	0.039227495
AC087294.2	ZAP70	0.994525954	4.49E-05
LLNLR-284B4.1	ITGB2	0.886351238	0.018640116
RP11-77G23.2	ITGB2	-0.811418865	0.049991026
CTD-2541M15.3	ITGB2	-0.854783653	0.030100536
RP11-160E2.19	ITGB2	0.898260332	0.014999888
AP001062.8	ZAP70	0.983501118	0.000406074
RP11-455F5.3	ZAP70	0.996648359	1.68E-05
RP11-498J9.2	RBM39	0.851783	0.031324382
RP11-34P13.14	RBM39	0.894591521	0.016080827
RP11-93O14.2	RBM39	0.837852988	0.037305924
RP11-326C3.2	ZAP70	0.997036963	1.32E-05
RP11-78A19.3	RBM39	0.855994226	0.029613323
Z69720.3	RBM39	0.820064573	0.045652274
AP006621.8	ZAP70	0.991970521	9.64E-05
JHDM1D-AS1	ZAP70	0.997203253	1.17E-05
RP11-20I23.6	ZAP70	0.997943049	6.34E-06
RP11-160E2.19	ZAP70	0.965291694	0.001786094
AC005786.7	ZAP70	0.988357963	0.000202517
AC005944.2	ZAP70	0.967896916	0.001529369
CTB-191K22.5	ZAP70	0.966546105	0.001660024
RP11-680G24.6	TNFAIP3	0.823544463	0.043957726
LA16c-359F1.1	TNFAIP3	0.875462008	0.022298793
RP11-20I23.8	ZAP70	0.997992962	6.04E-06
AC024028.1	IL2RG	0.846997035	0.033323968
RP11-473M20.11	IL2RG	0.906060802	0.012822373
CTD-2139B15.2	IL2RG	-0.854197432	0.030337819
RP11-91K8.5	IL2RG	-0.839232164	0.036691819
CDC37L1-AS1	ZAP70	0.986479419	0.000272973
RP5-1142A6.10	ZAP70	0.990141132	0.000145317
RP11-556I13.1	ZAP70	0.997194555	1.18E-05
CTA-315H11.2	ZBP1	-0.931187181	0.006939885
PSMD5-AS1	ZBP1	0.919176695	0.009534625
RP11-326C3.2	ZBP1	0.938499743	0.005557117
AP006621.8	ZBP1	0.927741472	0.007643301
RP11-160E2.19	ZBP1	0.982145963	0.000475304
LA16c-359F1.1	LYZ	0.833290685	0.039371401
AC011558.5	ZBP1	0.975588441	0.000886613
RP11-680G24.6	ZBTB16	0.942725959	0.004826535
LA16c-359F1.1	ZBTB16	0.961683457	0.002174109
RP5-1033H22.2	ZBTB20	0.925626488	0.008091433
RP11-21J18.1	ZBTB20	0.991434557	0.000109736
RP11-485G7.6	NCF4	0.909742149	0.011852078
RP11-298J23.8	ZBTB20	0.931829926	0.00681234
RP11-165D6.1	ZBTB20	0.949541212	0.003754898
CTD-2621I17.8	ZBTB20	0.938337194	0.005586222
RP4-784A16.3	ZBTB38	0.927912803	0.007607543
RP11-21J18.1	ZBTB38	0.923519563	0.008550209

RP11-118G23.2	ZBTB6	0.923763951	0.008496363
RP11-66D17.5	ZBTB6	-0.946314609	0.004245818
LL21NC02-21A1.1	ZBTB6	-0.988451985	0.000199265
AC024028.1	ZC3H12A	0.959589619	0.002416503
RP11-498J9.2	ZC3H12A	0.999007043	1.48E-06
RP11-680G24.6	NFKBIA	0.81252329	0.049426605
LA16c-359F1.1	NFKBIA	0.878015263	0.021412831
RP11-34P13.14	ZC3H12A	0.98192915	0.000486883
CCDC144NL-AS1	GYPC	-0.857045759	0.029193172
RP11-93O14.2	ZC3H12A	0.982047485	0.000480546
RP11-485G7.6	ZC3H12A	0.963480115	0.0019762
RP11-78A19.3	ZC3H12A	0.981271744	0.000522837
Z69720.3	ZC3H12A	0.992246231	8.99E-05
CTA-315H11.2	ZC3H6	-0.944242567	0.004576665
RP11-66D17.5	ZC3H6	0.951095454	0.003529001
RP11-126K1.8	ZC3H6	0.974629269	0.000957346
RP3-438O4.4	ZC3H6	0.993842262	5.68E-05
NUP50-AS1	ZC3H6	0.984199684	0.000372503
PSMD5-AS1	ZC3H6	0.981771146	0.000495408
TOPORS-AS1	ZC3H6	0.979957933	0.000598501
AC087294.2	ZC3H6	0.999067654	1.30E-06
AP001062.8	ZC3H6	0.992277647	8.92E-05
RP11-455F5.3	ZC3H6	0.99898978	1.53E-06
RP11-326C3.2	ZC3H6	0.987561146	0.000231125
AP006621.8	ZC3H6	0.983822964	0.000390428
JHDM1D-AS1	ZC3H6	0.999901996	1.44E-08
RP11-20I23.6	ZC3H6	0.996085672	2.30E-05
RP11-160E2.19	ZC3H6	0.94115185	0.005092758
AC005786.7	ZC3H6	0.991272646	0.000113918
LL21NC02-21A1.1	GYPC	0.843164809	0.034967056
AC005944.2	ZC3H6	0.964281976	0.001890882
CTB-191K22.5	ZC3H6	0.977279644	0.000768458
RP11-20I23.8	ZC3H6	0.999575371	2.70E-07
CDC37L1-AS1	ZC3H6	0.994888715	3.91E-05
RP5-1142A6.10	ZC3H6	0.985314548	0.00032191
RP11-556I13.1	ZC3H6	0.999895193	1.65E-08
RP11-498J9.2	ZC3HAV1L	0.95589216	0.002875346
RP11-34P13.14	ZC3HAV1L	0.963376974	0.001987309
RP11-93O14.2	ZC3HAV1L	0.991157311	0.000116944
RP11-485G7.6	ZC3HAV1L	0.939164327	0.005438893
RP11-78A19.3	ZC3HAV1L	0.980592909	0.000561298
RP11-680G24.6	ZC3HAV1L	0.945742718	0.004335916
LA16c-359F1.1	ZC3HAV1L	0.95869485	0.002523937
Z69720.3	ZC3HAV1L	0.954904025	0.003004616
AC011558.5	ZC3HC1	-0.931595354	0.006858754
CTD-2139B15.2	ZCCHC11	-0.964738475	0.001843141
RP11-160E2.19	ZCCHC4	-0.935538501	0.006098999
CTA-315H11.2	ZDHHC18	-0.964043194	0.001916094
RP11-126K1.8	ZDHHC18	0.917995706	0.009811329
RP3-438O4.4	ZDHHC18	0.950161666	0.003663894
NUP50-AS1	ZDHHC18	0.938068043	0.005634579
PSMD5-AS1	ZDHHC18	0.979012624	0.000656083
TOPORS-AS1	ZDHHC18	0.953377052	0.003209877
AC087294.2	ZDHHC18	0.968366734	0.001485168
AP001062.8	ZDHHC18	0.947779042	0.004019339
RP11-455F5.3	ZDHHC18	0.973209564	0.001066977
RP11-326C3.2	ZDHHC18	0.996050743	2.34E-05
RP11-93O14.2	SOD2	0.893334144	0.016459606
RP11-485G7.6	SOD2	0.874340149	0.022693488
AP006621.8	ZDHHC18	0.984160856	0.000374331
RP11-78A19.3	SOD2	0.906957995	0.012582498
JHDM1D-AS1	ZDHHC18	0.975082258	0.000923605
RP11-20I23.6	ZDHHC18	0.985067669	0.000332797

RP11-160E2.19	ZDHHC18	0.992208143	9.08E-05
AC005786.7	ZDHHC18	0.9688401	0.001441282
AC005944.2	ZDHHC18	0.95312684	0.003244147
CTB-191K22.5	ZDHHC18	0.927145289	0.007768364
RP11-20I23.8	ZDHHC18	0.977568269	0.00074913
CDC37L1-AS1	ZDHHC18	0.957400621	0.002683408
LA16c-359F1.1	MIIP	0.872896815	0.02320614
RP5-1142A6.10	ZDHHC18	0.984608247	0.000353536
AC024028.1	HLA-DRB1	0.913855985	0.010811559
RP11-556I13.1	ZDHHC18	0.975125139	0.000920442
RP11-34P13.14	HLA-DRB1	0.913924934	0.010794514
RP11-66D17.5	ZDHHC3	0.98103976	0.000535828
RP11-126K1.8	ZDHHC3	0.991735625	0.000102168
RP11-473M20.11	HLA-DRB1	0.858821893	0.028489958
RP3-438O4.4	ZDHHC3	0.991987631	9.60E-05
LA16c-359F1.1	HLA-DRB1	0.837114148	0.037636874
NUP50-AS1	ZDHHC3	0.997936406	6.38E-06
CCDC144NL-AS1	ARHGDIB	-0.854687512	0.03013939
CTA-315H11.2	ARHGDIB	-0.912470824	0.011156739
PSMD5-AS1	ARHGDIB	0.886786081	0.018500534
TOPORS-AS1	ARHGDIB	0.826549258	0.042518593
AC087294.2	ARHGDIB	0.838045232	0.037220036
RP11-455F5.3	ARHGDIB	0.850301635	0.03193706
PSMD5-AS1	ZDHHC3	0.977016249	0.000786309
AP006621.8	ARHGDIB	0.897200957	0.015308293
JHDM1D-AS1	ARHGDIB	0.853316375	0.0306961
RP11-20I23.6	ARHGDIB	0.879546008	0.020889903
TOPORS-AS1	ZDHHC3	0.975118776	0.000920911
AC005786.7	ARHGDIB	0.845991564	0.033751465
AC005944.2	ARHGDIB	0.844901337	0.034217898
RP11-20I23.8	ARHGDIB	0.859072742	0.028391296
CDC37L1-AS1	ARHGDIB	0.817190799	0.047074137
RP5-1142A6.10	ARHGDIB	0.890918252	0.017199269
RP11-556I13.1	ARHGDIB	0.853421082	0.030653417
AC087294.2	ZDHHC3	0.996043742	2.34E-05
AP001062.8	ZDHHC3	0.999921472	9.25E-09
RP11-455F5.3	ZDHHC3	0.994009012	5.37E-05
LLNLR-284B4.1	AIF1	0.851831859	0.03130427
AC011558.5	AIF1	0.848405811	0.03272932
CCDC144NL-AS1	CLC	-0.910223593	0.011727915
RP11-326C3.2	ZDHHC3	0.967084597	0.001607305
RP11-66D17.5	CLC	0.812619874	0.049377387
RP11-126K1.8	CLC	0.873771971	0.022894645
RP3-438O4.4	CLC	0.891316497	0.017076265
NUP50-AS1	CLC	0.88730136	0.018335783
AP006621.8	ZDHHC3	0.974254247	0.000985733
TOPORS-AS1	CLC	0.901295353	0.014133091
JHDM1D-AS1	ZDHHC3	0.991145585	0.000117254
AP001062.8	CLC	0.899487139	0.01464652
RP11-20I23.6	ZDHHC3	0.986382962	0.000276873
AC005786.7	ZDHHC3	0.989698539	0.000158634
AC005944.2	ZDHHC3	0.975473717	0.000894931
CTB-191K22.5	ZDHHC3	0.995621094	2.87E-05
RP11-20I23.8	ZDHHC3	0.991372601	0.000111327
CDC37L1-AS1	ZDHHC3	0.989745499	0.000157193
RP5-1142A6.10	ZDHHC3	0.976147249	0.000846645
RP11-556I13.1	ZDHHC3	0.991035193	0.000120191
CTB-191K22.5	CLC	0.874629427	0.022591397
RP11-118G23.2	ZEB2	0.947954431	0.003992623
CDC37L1-AS1	CLC	0.900469994	0.01436635
RP11-680G24.6	ZEB2	0.9951119	3.58E-05
LA16c-359F1.1	ZEB2	0.956183986	0.002837705
RP11-473M20.11	ZFP36L1	0.922260558	0.008830225

AC024028.1	LST1	0.895920496	0.015685092
RP4-784A16.3	ZFY	0.922987943	0.008667912
LLNLR-284B4.1	LST1	0.833062809	0.039475934
AC011558.5	LST1	0.885823476	0.018810199
RP11-473M20.11	ZFYVE28	0.95122454	0.003510549
AC024028.1	ZG16B	0.949873249	0.00370606
RP11-498J9.2	ZG16B	0.996806028	1.53E-05
RP11-34P13.14	ZG16B	0.965971292	0.001717228
RP11-485G7.6	MCL1	0.884717462	0.019169039
RP11-93O14.2	ZG16B	0.977599389	0.000747061
RP11-485G7.6	ZG16B	0.972824936	0.001097692
LA16c-359F1.1	MCL1	0.821530994	0.044934554
RP11-78A19.3	ZG16B	0.974493842	0.000967549
Z69720.3	ZG16B	0.985376668	0.000319199
RP11-118G23.2	ZKSCAN2	0.92857652	0.007469794
RP11-680G24.6	ZKSCAN2	0.935700002	0.006068811
LL21NC02-21A1.1	ZKSCAN2	-0.920444138	0.009241943
AC024028.1	ZMAT3	0.930033613	0.00717169
RP11-498J9.2	ZMAT3	0.964739207	0.001843065
RP11-34P13.14	ZMAT3	0.994664666	4.26E-05
RP11-680G24.6	IL1B	0.844538495	0.034373801
LA16c-359F1.1	IL1B	0.894697933	0.016048966
RP11-93O14.2	ZMAT3	0.969561443	0.001375658
RP11-78A19.3	ZMAT3	0.956936577	0.002741758
Z69720.3	ZMAT3	0.979947623	0.000599115
RP11-34P13.14	CD37	0.904915259	0.013131826
RP11-93O14.2	CD37	0.862079943	0.02722116
RP11-485G7.6	CD37	0.81975715	0.045803409
AC024028.1	ZMIZ1	0.960524492	0.002306716
RP11-78A19.3	CD37	0.872490295	0.023351515
Z69720.3	CD37	0.884807273	0.019139779
CCDC144NL-AS1	HLA-E	-0.863842593	0.026546159
CTA-315H11.2	HLA-E	-0.905571979	0.012953986
PSMD5-AS1	HLA-E	0.905514852	0.01296941
TOPORS-AS1	HLA-E	0.83432885	0.038896812
AC087294.2	HLA-E	0.847885009	0.032948564
AP001062.8	HLA-E	0.816924391	0.047206975
RP11-455F5.3	HLA-E	0.861119299	0.027592419
RP11-498J9.2	ZMIZ1	0.996981524	1.37E-05
AP006621.8	HLA-E	0.912997871	0.01102478
JHDM1D-AS1	HLA-E	0.85860313	0.028576133
RP11-20I23.6	HLA-E	0.88721129	0.01836453
RP11-34P13.14	ZMIZ1	0.985798517	0.000301091
AC005786.7	HLA-E	0.856458333	0.029427534
AC005944.2	HLA-E	0.870847984	0.023943221
RP11-20I23.8	HLA-E	0.865766672	0.025818532
CDC37L1-AS1	HLA-E	0.816094878	0.047621705
RP5-1142A6.10	HLA-E	0.901290669	0.014134409
RP11-556I13.1	HLA-E	0.858565237	0.028591073
RP11-93O14.2	ZMIZ1	0.988824986	0.000186624
CCDC144NL-AS1	GNAS	-0.870281158	0.024149079
RP11-485G7.6	ZMIZ1	0.959791005	0.002392641
RP11-78A19.3	ZMIZ1	0.990846656	0.000125292
LA16c-359F1.1	ZMIZ1	0.922310541	0.008819025
Z69720.3	ZMIZ1	0.984759399	0.000346644
RP11-118G23.2	ZNF100	0.931440661	0.006889447
LL21NC02-21A1.1	ZNF100	-0.977831619	0.000731709
RP11-498J9.2	ZNF124	0.930694909	0.00703835
RP11-34P13.14	ZNF124	0.953592085	0.003180568
RP11-93O14.2	ZNF124	0.95869778	0.002523582
RP11-78A19.3	ZNF124	0.935083483	0.006184447
RP11-680G24.6	ZNF124	0.929988741	0.007180782
Z69720.3	ZNF124	0.95451291	0.003056555

AC024028.1	ZNF148	0.95935988	0.002443868
RP11-498J9.2	ZNF148	0.972354679	0.001135831
RP11-34P13.14	ZNF148	0.998774861	2.25E-06
RP11-93O14.2	ZNF148	0.965194766	0.001796025
RP11-78A19.3	ZNF148	0.962087161	0.002128827
Z69720.3	ZNF148	0.978926231	0.000661476
RP11-160E2.19	ZNF185	0.923628029	0.00852629
AC011558.5	ZNF185	0.976828461	0.00079916
LL21NC02-21A1.1	GNAS	0.813641243	0.048858298
RP11-66D17.5	ZNF193	-0.926805661	0.007840051
RP11-126K1.8	ZNF193	-0.954967085	0.002996283
AC011558.5	GNAS	0.822553028	0.044437467
RP3-438O4.4	ZNF193	-0.922438152	0.008790461
NUP50-AS1	ZNF193	-0.957129621	0.002717409
PSMD5-AS1	ZNF193	-0.951949906	0.003407748
RP11-93O14.2	TMEM66	0.898518332	0.014925237
RP11-485G7.6	TMEM66	0.840089106	0.036312661
TOPORS-AS1	ZNF193	-0.936422844	0.005934591
RP11-78A19.3	TMEM66	0.90934726	0.011954391
Z69720.3	TMEM66	0.917010259	0.010045158
RP11-118G23.2	RPL38	-0.8243164	0.043585878
AC087294.2	ZNF193	-0.944834981	0.004480831
AP001062.8	ZNF193	-0.953455616	0.003199153
RP11-455F5.3	ZNF193	-0.947316501	0.004090214
RP11-326C3.2	ZNF193	-0.933598857	0.006467283
PSMD5-AS1	RPL38	0.878545402	0.021231028
AP006621.8	ZNF193	-0.948166423	0.003960448
JHDM1D-AS1	ZNF193	-0.9358405	0.006042608
RP11-20I23.6	ZNF193	-0.943906836	0.004631418
AC005786.7	ZNF193	-0.946443855	0.004225584
RP11-326C3.2	RPL38	0.876440691	0.02195717
AP006621.8	RPL38	0.871353767	0.023760242
AC005944.2	ZNF193	-0.951181218	0.003516736
CTB-191K22.5	ZNF193	-0.947054691	0.0041306
RP11-20I23.8	ZNF193	-0.939480023	0.005383169
AC005944.2	RPL38	0.907079921	0.012550069
RP5-1142A6.10	ZNF193	-0.947214203	0.004105971
RP11-556I13.1	ZNF193	-0.935530697	0.00610046
CTD-2139B15.2	ZNF205	0.934317818	0.006329542
LL21NC02-21A1.1	RPL38	0.904453642	0.013257533
CTA-315H11.2	ZNF23	-0.939910157	0.005307698
RP11-66D17.5	ZNF23	0.954180717	0.003101013
CCDC144NL-AS1	RNU11	-0.850235241	0.031964651
RP11-126K1.8	ZNF23	0.98061427	0.000560067
RP11-66D17.5	RNU11	0.897993503	0.015077283
RP3-438O4.4	ZNF23	0.993553345	6.22E-05
NUP50-AS1	ZNF23	0.985200552	0.000326915
PSMD5-AS1	ZNF23	0.978364301	0.000697091
TOPORS-AS1	ZNF23	0.975403122	0.000900069
AC087294.2	ZNF23	0.998251901	4.58E-06
AP001062.8	ZNF23	0.993991552	5.40E-05
RP11-455F5.3	ZNF23	0.998089656	5.47E-06
RP11-326C3.2	ZNF23	0.981450455	0.000512937
AP006621.8	ZNF23	0.980225739	0.000582666
JHDM1D-AS1	ZNF23	0.998223364	4.73E-06
RP11-20I23.6	ZNF23	0.991403099	0.000110542
RP11-160E2.19	ZNF23	0.927868386	0.007616805
AC005786.7	ZNF23	0.986970139	0.00025356
AC005944.2	ZNF23	0.959949801	0.002373907
CTB-191K22.5	ZNF23	0.978956908	0.000659558
RP11-20I23.8	ZNF23	0.997441009	9.81E-06
CDC37L1-AS1	ZNF23	0.99347565	6.37E-05
RP5-1142A6.10	ZNF23	0.97781206	0.000732995

RP11-556I13.1	ZNF23	0.998190824	4.91E-06
RP5-1033H22.2	ZNF292	0.999208942	9.38E-07
AC011558.5	RNU11	0.883546083	0.019552626
RP11-21J18.1	ZNF292	0.93133556	0.006910338
RP11-298J23.8	ZNF292	0.9914202	0.000110104
RP11-165D6.1	ZNF292	0.993110656	7.10E-05
RMRP	ZNF296	-0.961483262	0.002196738
AC024028.1	ZNF331	0.960745432	0.002281138
RP11-498J9.2	ZNF331	0.998515282	3.30E-06
RP11-34P13.14	ZNF331	0.987216933	0.000244066
LA16c-359F1.1	CD44	0.829320967	0.041210945
RP11-93O14.2	ZNF331	0.987444694	0.000235464
CCDC144NL-AS1	HLA-C	-0.863045661	0.026850345
RP11-485G7.6	ZNF331	0.95918782	0.002464462
RP11-66D17.5	HLA-C	0.820338969	0.045517572
RP11-126K1.8	HLA-C	0.867604369	0.025132549
RP3-438O4.4	HLA-C	0.872687033	0.023281106
NUP50-AS1	HLA-C	0.886934917	0.018452874
RP11-78A19.3	ZNF331	0.986624476	0.00026716
TOPORS-AS1	HLA-C	0.894042795	0.016245607
AC087294.2	HLA-C	0.909989447	0.011788221
AP001062.8	HLA-C	0.890855079	0.01721882
Z69720.3	ZNF331	0.990305851	0.000140509
CTD-2541M15.3	ZNF367	0.993866984	5.63E-05
CCDC144NL-AS1	ZNF416	0.947745051	0.004024526
JHDM1D-AS1	HLA-C	0.914449353	0.010665301
CTA-315H11.2	ZNF416	0.974559603	0.000962588
RP11-326C3.2	ZNF416	-0.929013746	0.007379721
RP11-160E2.19	ZNF416	-0.952322567	0.003355518
RP11-118G23.2	ZNF426	0.940874332	0.00514042
CTB-191K22.5	HLA-C	0.876140679	0.022061626
RP11-66D17.5	ZNF426	-0.940338041	0.005233139
CDC37L1-AS1	HLA-C	0.879915211	0.020764702
LL21NC02-21A1.1	ZNF426	-0.940088308	0.005276592
RP11-556I13.1	HLA-C	0.91432743	0.010695274
CCDC144NL-AS1	ZNF451	-0.96050641	0.002308815
LLNLR-284B4.1	CYBA	0.897870699	0.015112967
RP11-77G23.2	CYBA	-0.815550787	0.047894648
CTD-2541M15.3	CYBA	-0.837540354	0.037445795
RP11-160E2.19	CYBA	0.885046721	0.019061874
CTA-315H11.2	ZNF451	-0.941018052	0.00511571
CCDC144NL-AS1	HLA-A	-0.838358535	0.037080264
CTA-315H11.2	HLA-A	-0.904053061	0.013367088
RP11-66D17.5	HLA-A	0.82450406	0.043495703
RP11-126K1.8	HLA-A	0.860864475	0.0276913
RP3-438O4.4	HLA-A	0.8745192	0.022630272
NUP50-AS1	HLA-A	0.888168691	0.018060068
RP11-126K1.8	ZNF451	0.927549507	0.007683462
TOPORS-AS1	HLA-A	0.905664865	0.012928927
AC087294.2	HLA-A	0.908337018	0.012218072
AP001062.8	HLA-A	0.889196839	0.017735827
RP11-455F5.3	HLA-A	0.91636492	0.010199734
PSMD5-AS1	ZNF451	0.943156441	0.004754949
AC087294.2	ZNF451	0.938902882	0.005485253
JHDM1D-AS1	HLA-A	0.912043975	0.011264168
AP001062.8	ZNF451	0.928439343	0.007498163
RP11-455F5.3	ZNF451	0.94765094	0.004038907
RP11-326C3.2	ZNF451	0.952239702	0.003367097
AP006621.8	ZNF451	0.951999431	0.003400784
CTB-191K22.5	HLA-A	0.874634144	0.022589735
JHDM1D-AS1	ZNF451	0.94370725	0.004664118
CDC37L1-AS1	HLA-A	0.879659182	0.020851486
RP11-20I23.6	ZNF451	0.935448442	0.006115865

RP11-556I13.1	HLA-A	0.911954353	0.011286787
RP11-20I23.8	ZNF451	0.943336977	0.004725083
AC024028.1	CRIP1	0.860538359	0.027818091
RP11-556I13.1	ZNF451	0.943569873	0.004686692
LLNLR-284B4.1	CRIP1	0.817211022	0.04706406
RP11-118G23.2	ZNF461	0.950796425	0.003571927
CCDC144NL-AS1	IFITM2	-0.899857726	0.014540575
RP11-66D17.5	ZNF461	-0.930652704	0.007046824
RP11-66D17.5	IFITM2	0.821117129	0.045136579
RP11-126K1.8	IFITM2	0.876555457	0.021917275
RP3-438O4.4	IFITM2	0.896163988	0.0156131
NUP50-AS1	IFITM2	0.893132254	0.01652082
LL21NC02-21A1.1	ZNF461	-0.978833593	0.000667284
TOPORS-AS1	IFITM2	0.908591991	0.01215126
CTA-315H11.2	ZNF613	0.931365967	0.006904291
AP001062.8	IFITM2	0.903688375	0.013467204
RP11-326C3.2	ZNF613	-0.932221201	0.006735262
RP11-160E2.19	ZNF613	-0.976112109	0.000849131
AC011558.5	ZNF613	-0.977085314	0.000781608
RP11-77G23.2	ZNF619	0.958341083	0.002567049
RP11-160E2.19	ZNF620	-0.955055863	0.00298457
RP5-1142A6.10	ZNF620	-0.919993793	0.00934543
AC011558.5	ZNF620	-0.955878977	0.002877053
RP11-66D17.5	ZNF653	0.989011533	0.000180456
CTB-191K22.5	IFITM2	0.880403853	0.020599551
RP11-126K1.8	ZNF653	0.996991467	1.36E-05
CDC37L1-AS1	IFITM2	0.904837245	0.01315303
RP3-438O4.4	ZNF653	0.97394532	0.001009426
NUP50-AS1	ZNF653	0.994489731	4.55E-05
PSMD5-AS1	ZNF653	0.964720992	0.001844958
CCDC144NL-AS1	GLUL	-0.907871584	0.012340491
TOPORS-AS1	ZNF653	0.949188418	0.003807132
RP11-66D17.5	GLUL	0.887429437	0.018294943
AC087294.2	ZNF653	0.979998395	0.000596095
AP001062.8	ZNF653	0.993104507	7.12E-05
RP11-455F5.3	ZNF653	0.977673663	0.000742134
RP11-326C3.2	ZNF653	0.938805603	0.005502552
AP006621.8	ZNF653	0.958100142	0.002596618
JHDM1D-AS1	ZNF653	0.970652132	0.001279307
RP11-20I23.6	ZNF653	0.963759139	0.001946301
AC005786.7	ZNF653	0.970736682	0.001271983
AC005944.2	ZNF653	0.973830771	0.001018282
CTB-191K22.5	ZNF653	0.99763183	8.41E-06
RP11-20I23.8	ZNF653	0.971499015	0.001206883
CDC37L1-AS1	ZNF653	0.970002127	0.001336311
LL21NC02-21A1.1	ZNF653	0.921910593	0.00890884
RP5-1142A6.10	ZNF653	0.951450519	0.003478361
RP11-556I13.1	ZNF653	0.970425314	0.001299059
CTA-315H11.2	ZNF683	-0.969700749	0.001363159
RP11-126K1.8	ZNF683	0.939131349	0.00544473
RP3-438O4.4	ZNF683	0.958912609	0.002497579
NUP50-AS1	ZNF683	0.951198752	0.003514231
PSMD5-AS1	ZNF683	0.98802291	0.000214317
AC011558.5	GLUL	0.903824961	0.013429665
CCDC144NL-AS1	HLA-B	-0.847254139	0.033215067
CTA-315H11.2	HLA-B	-0.899268344	0.014709245
CTD-2541M15.3	HLA-B	-0.817292649	0.047023398
RP11-126K1.8	HLA-B	0.829507555	0.041123601
RP3-438O4.4	HLA-B	0.830167468	0.040815386
NUP50-AS1	HLA-B	0.849631522	0.032216052
TOPORS-AS1	ZNF683	0.956480469	0.002799712
TOPORS-AS1	HLA-B	0.859409382	0.028259145
AC087294.2	HLA-B	0.873409203	0.023023522

AP001062.8	HLA-B	0.852668858	0.030960679
RP11-455F5.3	HLA-B	0.884995303	0.01907859
AC087294.2	ZNF683	0.978219654	0.000706409
AP001062.8	ZNF683	0.961686878	0.002173723
JHDM1D-AS1	HLA-B	0.878256545	0.021329995
RP11-20I23.6	HLA-B	0.907796062	0.01236041
RP11-455F5.3	ZNF683	0.983417563	0.000410186
AC005786.7	HLA-B	0.885039736	0.019064144
AC005944.2	HLA-B	0.91340949	0.01092225
CTB-191K22.5	HLA-B	0.837509967	0.037459403
RP11-20I23.8	HLA-B	0.886409825	0.01862128
CDC37L1-AS1	HLA-B	0.837641558	0.03740049
RP11-326C3.2	ZNF683	0.999524657	3.39E-07
RP11-556I13.1	HLA-B	0.878105986	0.021381666
AP006621.8	ZNF683	0.992625494	8.14E-05
AC024028.1	HLA-DRA	0.870901482	0.023923836
JHDM1D-AS1	ZNF683	0.983379796	0.000412051
RP11-34P13.14	HLA-DRA	0.8647698	0.026194319
RP11-93O14.2	HLA-DRA	0.912113289	0.011246689
RP11-20I23.6	ZNF683	0.989823103	0.000154827
RP11-473M20.11	HLA-DRA	0.813920299	0.048716917
RP11-78A19.3	HLA-DRA	0.906045392	0.012826512
RP11-160E2.19	ZNF683	0.986793537	0.000260464
CCDC144NL-AS1	UBB	-0.863515354	0.026670866
AC005786.7	ZNF683	0.973642887	0.001032891
AC005944.2	ZNF683	0.961134315	0.002236458
CTB-191K22.5	ZNF683	0.941377714	0.005054129
RP11-20I23.8	ZNF683	0.985555943	0.000311439
CDC37L1-AS1	ZNF683	0.96447016	0.001871128
RP5-1142A6.10	ZNF683	0.985736187	0.000303734
RP11-556I13.1	ZNF683	0.983365528	0.000412757
CTA-315H11.2	ZNF726	0.987890791	0.000219062
PSMD5-AS1	ZNF726	-0.945363667	0.004396145
AC087294.2	ZNF726	-0.917369197	0.009959679
RP11-455F5.3	ZNF726	-0.926886616	0.007822934
RP11-326C3.2	ZNF726	-0.959038396	0.002482416
AP006621.8	ZNF726	-0.952597306	0.003317266
JHDM1D-AS1	ZNF726	-0.929468458	0.007286611
RP11-20I23.6	ZNF726	-0.932708086	0.006639947
RP11-160E2.19	ZNF726	-0.965843034	0.001730122
RP11-20I23.8	ZNF726	-0.931877417	0.006802962
RP5-1142A6.10	ZNF726	-0.919370356	0.009489617
RP11-556I13.1	ZNF726	-0.929511623	0.007277802
RP11-118G23.2	ZNF736	0.946730395	0.004180896
LL21NC02-21A1.1	UBB	0.825003763	0.04325601
RP11-680G24.6	ZNF736	0.939338256	0.005408158
LL21NC02-21A1.1	ZNF736	-0.92042995	0.009245195
CCDC144NL-AS1	ZNF768	0.929273568	0.007326447
CTA-315H11.2	ZNF768	0.95896654	0.002491072
RP3-438O4.4	ZNF768	-0.933341766	0.006516888
PSMD5-AS1	ZNF768	-0.926826686	0.007835604
TOPORS-AS1	ZNF768	-0.921985661	0.008891949
AC087294.2	ZNF768	-0.941766486	0.004987974
RP11-455F5.3	ZNF768	-0.94693693	0.00414883
RP11-326C3.2	ZNF768	-0.966447145	0.001669804
LA16c-359F1.1	VIM	0.863720173	0.026592779
AP006621.8	ZNF768	-0.940662482	0.00517695
CCDC144NL-AS1	S100A9	-0.884313902	0.019300781
JHDM1D-AS1	ZNF768	-0.955149292	0.002972268
RP11-66D17.5	S100A9	0.853514736	0.030615263
RP11-126K1.8	S100A9	0.900100519	0.014471366
RP3-438O4.4	S100A9	0.908845989	0.012084879
NUP50-AS1	S100A9	0.916258333	0.010225374

RP11-20I23.6	ZNF768	-0.948943382	0.003843621
RP11-160E2.19	ZNF768	-0.936211095	0.005973757
AC005786.7	ZNF768	-0.924261144	0.008387328
RP11-20I23.8	ZNF768	-0.952774904	0.003292654
CDC37L1-AS1	ZNF768	-0.939745374	0.005336549
RP5-1142A6.10	ZNF768	-0.932845877	0.006613093
RP11-556I13.1	ZNF768	-0.955338933	0.002947376
CTD-2139B15.2	ZNF788	0.944217733	0.004580704
RP11-91K8.5	ZNF788	0.986502827	0.000272031
CTA-315H11.2	ZNF815	-0.952758228	0.003294961
RP11-126K1.8	ZNF815	0.919009088	0.009573661
RP3-438O4.4	ZNF815	0.964318563	0.001887033
CTB-191K22.5	S100A9	0.906227804	0.012777557
NUP50-AS1	ZNF815	0.944783929	0.00448905
CDC37L1-AS1	S100A9	0.915710102	0.01035775
PSMD5-AS1	ZNF815	0.971512862	0.001205717
TOPORS-AS1	ZNF815	0.968858604	0.00143958
AC087294.2	ZNF815	0.974735743	0.000949361
CCDC144NL-AS1	SERF2	-0.822298946	0.044560805
CTA-315H11.2	SERF2	-0.91518085	0.010486326
AP001062.8	ZNF815	0.953903519	0.003138354
RP11-455F5.3	ZNF815	0.976993745	0.000787843
RP11-326C3.2	ZNF815	0.994080241	5.25E-05
AP006621.8	ZNF815	0.977056012	0.000783601
JHDM1D-AS1	ZNF815	0.981496338	0.000510411
RP11-20I23.6	ZNF815	0.989284627	0.000171614
RP11-160E2.19	ZNF815	0.980935807	0.000541701
AC005786.7	ZNF815	0.9774832	0.000754801
AC005944.2	ZNF815	0.946902786	0.004154122
CTB-191K22.5	ZNF815	0.932363995	0.006707239
RP11-20I23.8	ZNF815	0.982746218	0.000443971
CDC37L1-AS1	ZNF815	0.970313382	0.001308862
RP5-1142A6.10	ZNF815	0.988562795	0.000195466
RP11-556I13.1	ZNF815	0.981606719	0.000504358
CTA-315H11.2	ZNF828	0.944750383	0.004494455
PSMD5-AS1	ZNF828	-0.947631205	0.004041926
RP11-455F5.3	ZNF828	-0.923402874	0.008575977
RP11-326C3.2	ZNF828	-0.970350392	0.001305616
AP006621.8	ZNF828	-0.955048857	0.002985494
LL21NC02-21A1.1	SERF2	0.883901773	0.019435765
JHDM1D-AS1	ZNF828	-0.92412338	0.008417471
RP11-20I23.6	ZNF828	-0.943940888	0.00462585
RP11-498J9.2	CD74	0.860668448	0.027767481
RP11-93O14.2	CD74	0.829575642	0.041091751
RP11-485G7.6	CD74	0.896960513	0.015378712
RP11-78A19.3	CD74	0.818931654	0.046210388
Z69720.3	CD74	0.820949305	0.04521862
CCDC144NL-AS1	FTL	-0.833632683	0.039214762
RP11-160E2.19	ZNF828	-0.996518307	1.82E-05
AC005786.7	ZNF828	-0.919203147	0.009528471
RP11-20I23.8	ZNF828	-0.928792271	0.00742528
RP5-1142A6.10	ZNF828	-0.951172049	0.003518046
RP11-556I13.1	ZNF828	-0.924155042	0.008410539
AC011558.5	ZNF828	-0.968174066	0.001503217
CTA-315H11.2	ZNF831	-0.95900624	0.002486288
RP11-66D17.5	ZNF831	0.932003912	0.006778013
RP11-126K1.8	ZNF831	0.963062571	0.002021362
RP3-438O4.4	ZNF831	0.983637743	0.000399395
NUP50-AS1	ZNF831	0.974335462	0.000979551
PSMD5-AS1	ZNF831	0.988370508	0.000202081
TOPORS-AS1	ZNF831	0.974653553	0.000955522
AC087294.2	ZNF831	0.994549303	4.45E-05
AP001062.8	ZNF831	0.983392655	0.000411416

RP11-455F5.3	ZNF831	0.9966021	1.73E-05
RP11-326C3.2	ZNF831	0.99693296	1.41E-05
AP006621.8	ZNF831	0.99150872	0.000107847
JHDM1D-AS1	ZNF831	0.997300615	1.09E-05
RP11-20I23.6	ZNF831	0.997926592	6.44E-06
LL21NC02-21A1.1	FTL	0.844841905	0.034243411
RP11-160E2.19	ZNF831	0.964845076	0.00183208
AC005786.7	ZNF831	0.988402241	0.000200982
CCDC144NL-AS1	TPT1	-0.901090604	0.014190784
AC005944.2	ZNF831	0.967069939	0.001608729
RP11-66D17.5	TPT1	0.91552903	0.010401652
CTB-191K22.5	ZNF831	0.966183305	0.001696017
RP11-20I23.8	ZNF831	0.998022647	5.86E-06
CDC37L1-AS1	ZNF831	0.98673844	0.000262637
RP5-1142A6.10	ZNF831	0.990082038	0.000147061
RP11-556I13.1	ZNF831	0.997295669	1.10E-05
RP3-438O4.4	ZNF845	-0.92911593	0.007358747
TOPORS-AS1	ZNF845	-0.972004443	0.001164656
AC087294.2	ZNF845	-0.92926542	0.007328115
RP11-455F5.3	ZNF845	-0.925424476	0.008134887
RP11-326C3.2	ZNF845	-0.941798692	0.004982513
JHDM1D-AS1	ZNF845	-0.931969953	0.006784706
RP11-20I23.6	ZNF845	-0.952904275	0.003274782
RP11-160E2.19	ZNF845	-0.936093984	0.005995473
AC005786.7	ZNF845	-0.959361795	0.002443639
RP11-20I23.8	ZNF845	-0.93411529	0.006368197
CDC37L1-AS1	ZNF845	-0.928214149	0.007544849
RP5-1142A6.10	ZNF845	-0.972210228	0.001147677
RP11-556I13.1	ZNF845	-0.932164795	0.006746347
CCDC144NL-AS1	ZNF862	-0.918085163	0.009790235
CTA-315H11.2	ZNRF1	0.925700677	0.008075504
AC011558.5	TPT1	0.873080893	0.023140454
RP3-438O4.4	ZNRF1	-0.959865697	0.00238382
RP4-784A16.3	HIST1H1PS1	0.874282066	0.022714012
AC087294.2	ZNRF1	-0.947778578	0.00401941
AP001062.8	ZNRF1	-0.931817585	0.006814778
RP11-455F5.3	ZNRF1	-0.945303225	0.004405787
CTD-2621I17.8	HIST1H1PS1	0.914031995	0.010768074
RP5-1033H22.2	GRAMD3	0.863628371	0.026627765
RP11-326C3.2	ZNRF1	-0.927951241	0.007599532
RP11-298J23.8	GRAMD3	0.826885025	0.042359168
RP11-165D6.1	GRAMD3	0.840348995	0.036198037
RP5-1033H22.2	ZBTB38	0.858122114	0.028766048
JHDM1D-AS1	ZNRF1	-0.956138659	0.002843535
RP11-20I23.6	ZNRF1	-0.936066291	0.006000614
RP11-298J23.8	ZBTB38	0.820601054	0.045389087
RP11-165D6.1	ZBTB38	0.894623713	0.016071185
CTC-1337H24.3	ZBTB38	-0.822447735	0.04448856
AC005786.7	ZNRF1	-0.925594625	0.00809828
RP4-784A16.3	QTRTD1	0.816792339	0.047272884
RP3-339A18.6	QTRTD1	0.900066281	0.014481116
RP11-21J18.1	QTRTD1	0.899230243	0.01472018
RP11-20I23.8	ZNRF1	-0.951120712	0.003525386
CDC37L1-AS1	ZNRF1	-0.967693606	0.001548695
RP11-556I13.1	ZNRF1	-0.95636653	0.002814283
RP3-339A18.6	ZNF292	0.833971145	0.03906003
RP11-160E2.19	ZWILCH	-0.960612143	0.002296552
AC011558.5	ZWILCH	-0.9939221	5.53E-05
AC011558.5	ZWINT	-0.925433888	0.00813286
CTD-2621I17.8	ZNF292	0.837347314	0.037532283
RP11-770G2.2	TET3	-0.823799548	0.043834686
RP11-118G23.2	SRPK2	0.83040465	0.040704874
RP11-767C1.1	SRPK2	-0.832598048	0.039689533

AC011558.5

ZYX

0.968415475

0.001480619

Supplemental table S5 19 pairs of lncRNA-gene interactions with promising regulatory relationships

Chrom	LncRNA_id	LncRNA	Location	Strand	Gene_id	Gene	Location	Strand	Regulation
chr19	ENST00000592758.1	AC005944.2	chr19:3052908-3053722	+	ENST00000591529	TLE2	chr19:3019700-3025373	-	Downstream_regulation
chr17	ENST00000439136.2	AC087294.2	chr17:21117644-21133348	+	ENST00000527123	MAP2K3	chr17:21215454-21217198	+	Across_up
chr21	ENST00000444409.1	AP001062.8	chr21:45748827-45750104	-	ENST00000354250	NDUFV3	chr21:44313431-44324041	+	Across_down
chr11	ENST00000528982.1	AP006621.8	chr11:823656-824645	-	ENST00000527763	EFCAB4A	chr11:830485-831780	+	Upstream_regulation
chr11	ENST00000528982.1	AP006621.8	chr11:823656-824645	-	ENST00000534561	PNPLA2	chr11:823648-824437	+	Downstream_regulation
chr8	ENST00000607368.1	CTD-2541M15.3	chr8:6473125-6474719	-	ENST00000523234	AGPAT5	chr8:6605205-6615026	+	Across_down
chr7	ENST00000566699.1	JHDM1D-AS1	chr7:139877061-139879440	+	ENST00000495305	MKRN1	chr7:140159729-140179336	-	Across_down
chr22	ENST00000432502.1	NUP50-AS1	chr22:45134363-45152586	-	ENST00000336963	ARHGAP8	chr22:45255541-45258343	+	Across_up
chr22	ENST00000432502.1	NUP50-AS1	chr22:45134363-45152586	-	ENST00000492475	PRR5	chr22:45129988-45133561	+	Downstream_regulation
chr17	ENST00000577546.1	RP11-118G23.2	chr17:32007596-32007902	+	ENST00000592108	SLFN11	chr17:33694285-33700639	-	Downstream_regulation
chr1	ENST00000422153.1	RP11-126K1.8	chr1:151313124-151314442	+	ENST00000423070	SELENBP1	chr1:151341544-151342761	-	Across_exon_intron
chr11	ENST00000525217.1	RP11-326C3.2	chr11:288086-288978	+	ENST00000409655	ATHL1	chr11:293679-294732	+	Upstream_regulation
chr11	ENST00000534742.1	RP11-326C3.2	chr11:288086-288978	+	ENST00000527146	IFITM2	chr11:308408-315272	+	Upstream_regulation
chr11	ENST00000534742.1	RP11-326C3.2	chr11:288086-288978	+	ENST00000312165	NLRP6	chr11:279059-279860	+	Downstream_regulation
chr16	ENST00000574681.1	RP11-485G7.6	chr16:11442000-11443178	-	ENST00000332029	SOCS1	chr16:11348262-11350036	-	Across_up
chr1	ENST00000428641.1	RP11-66D17.5	chr1:156682004-156682966	-	ENST00000416666	HDGF	chr1:156713633-156721288	-	Across_up
chr11	ENST00000534505.1	RP11-770G2.2	chr11:65513200-65539056	+	ENST00000527348	BANF1	chr11:65770707-65771364	+	Across_up
chr6	ENST00000417591.1	RP3-337H4.8	chr6:43555967-43559099	-	ENST00000307114	GTPBP2	chr6:43593100-43596899	-	Across_up
chr22	ENST00000432360.1	RP3-438O4.4	chr22:30580633-30603098	-	ENST00000463203	ASCC2	chr22:30230075-30234263	-	Upstream_regulation

Supplemental table S6 Identified novel lncRNAs expressed during differentiation

Chrom	transcript	Start	End	Strand
chr3	transcript	144187024	144189494	+
chr7	transcript	139580194	139581976	+
chr2	transcript	145075124	145078166	-
chr15	transcript	58574696	58575159	-
chr2	transcript	192582942	192585054	+
chr12	transcript	109029645	109030301	+
chr17	transcript	45110728	45112490	-
chr9	transcript	20339363	20340928	-
chr1	transcript	84763220	84763805	-
chr18	transcript	2800552	2802577	+
chr16	transcript	31201144	31202431	+
chr1	transcript	65772218	65774456	-
chr12	transcript	29461448	29462772	-
chr7	transcript	32756219	32756808	-
chr19	transcript	23277652	23278230	+
chr2	transcript	18825515	18826542	+
chr19	transcript	52898049	52898914	-
chr9	transcript	117366140	117366559	+
chr5	transcript	44777323	44778184	-
chr3	transcript	16386342	16387883	+
chr4	transcript	79715919	79716592	+
chr14	transcript	21819664	21821520	-
chr2	transcript	46411309	46411682	-
chr16	transcript	19089949	19090570	+
chr21	transcript	34933204	34936967	-
chr2	transcript	62638935	62639682	+
chr5	transcript	44777314	44778042	-
chr9	transcript	20339354	20341069	-
chr4	transcript	129141561	129144208	+
chr5	transcript	53613402	53616864	+
chr15	transcript	78517985	78518938	-
chr22	transcript	29656993	29657407	+
chr2	transcript	217362314	217363434	-
chr17	transcript	8056794	8057266	-
chr19	transcript	29704685	29706694	+
chrX	transcript	10146185	10147077	-
chr19	transcript	13928602	13928990	-
chr17	transcript	79640337	79640670	+
chr15	transcript	91573443	91573960	+
chr2	transcript	148798841	148800778	+
chr1	transcript	155951897	155952742	+
chr3	transcript	130469358	130470242	-
chr4	transcript	129399968	129401342	-
chr3	transcript	16386710	16387955	+
chr2	transcript	46411440	46411759	-
chr16	transcript	79692714	79695407	-
chr1	transcript	228391603	228393117	-
chr17	transcript	47922032	47923617	+
chr5	transcript	44777330	44778142	-
chr5	transcript	111496991	111500418	+
chr1	transcript	195779888	195783935	-
chr20	transcript	46281477	46285621	+
chr22	transcript	29656969	29657391	+
chr17	transcript	8056793	8057266	-
chr15	transcript	91573432	91574348	+
chr15	transcript	78517985	78518933	-
chr4	transcript	5032128	5033234	+
chr5	transcript	60476196	60478066	+
chr18	transcript	37361748	37363303	-
chr19	transcript	20137894	20138355	-
chr5	transcript	44777311	44778194	-

chr13	transcript	41836640	41837872	-
chr1	transcript	65772215	65774240	-
chr1	transcript	44540628	44541886	+
chr14	transcript	95988703	95990148	-
chr2	transcript	88928218	88931318	+
chr7	transcript	43799076	43800058	-
chr17	transcript	8056785	8057268	-
chr3	transcript	195443619	195444153	-
chr5	transcript	153599128	153599686	+
chr3	transcript	16386475	16387561	+
chr17	transcript	34084279	34085199	-
chr1	transcript	23607769	23611065	-
chr2	transcript	136770455	136771653	+
chr4	transcript	129490109	129491401	-
chr16	transcript	57493931	57495188	+
chr12	transcript	102140138	102142773	+
chr2	transcript	192582942	192585054	+
chr3	transcript	144187024	144189494	+
chr2	transcript	145075124	145078166	-
chr15	transcript	58574696	58575159	-
chr12	transcript	109029645	109030301	+
chr7	transcript	139580194	139581976	+

Table S7 miRNA target prediction results from DIANA LncBase prediction v2

LncRNA	miRNA	Score	Binding category	Transcript position
JHDM1D-AS1	hsa-miR-532-3p	0.655	8mer	2071-2095
			7mer	461-479
			6mer	309-335
			6mer	878-896
TOPORS-AS1	hsa-miR-532-3p	0.444	7mer	12-29
TOPORS-AS1	hsa-miR-532-3p	0.432	7mer	31-48
TOPORS-AS1	hsa-miR-532-3p	0.424	7mer	161-178
TOPORS-AS1	hsa-miR-532-3p	0.416	7mer	676-693
AC087294.2	hsa-miR-532-3p	0.385	6mer	83-99
RP11-66D17.5	hsa-miR-532-3p	0.384	6mer	89-110
TOPORS-AS1	hsa-miR-191-5p	0.382	6mer	473-489
AC087294.2	hsa-miR-532-3p	0.381	6mer	83-99
AC087294.2	hsa-miR-652-3p	0.379	6mer	461-488

Table S8 LncRNAs were expressed in various cell lines described in DIANA LncBase prediction v2

LncRNA	Expression cell line	Tissue
JHDM1D-AS1	K562	Blood
	h1ESC	Embryonic stem cells
	HepG2	Liver
	A549	Lung
	MCF7	Mammary gland
TOPORS-AS1	GM12878	Blood
	K562	Blood
	HUVEC	Blood vessel
	SK-N-SH	Brain
	h1ESC	Embryonic stem cells
	hREpiC	Kidney
	HepG2	Liver
	A549	Lung
	IMR90	Lung
	MCF7	Mammary gland
AC087294.2	K562	Blood
	HeLa	Cervix
RP11-66D17.5	SK-N-SH	Brain