

Table S1. Lists of differentially expressed long noncoding RNAs, protein-coding RNAs, microRNAs and enriched terms identified in the GO and KEGG enrichment analysis.

List of DE LncRNAs (LongTKD vs. NC)

	symbol	logFC	PValue	qvalue
ENSG00000260604	AL590004.4	-2.55	1.19E-29	2.35E-26
ENSG00000272027	AC073218.2	-1.84	2.66E-11	4.63E-09
ENSG00000231652	AL590428.1	1.81	3.54E-11	5.77E-09
ENSG00000223414	LINC00473	1.25	3.98E-08	3.24E-06
ENSG00000227115	LINC01630	-2.23	4.28E-08	3.45E-06
ENSG00000233143	DIRC3-AS1	-7.13	5.51E-08	4.26E-06
ENSG00000257167	TMPO-AS1	-0.88	8.37E-08	6.11E-06
ENSG00000236283	AC019197.1	0.90	2.33E-07	1.48E-05
ENSG00000261040	WFDC21P	1.15	3.20E-07	1.95E-05
ENSG00000228262	LINC01320	-1.81	3.65E-07	2.15E-05
ENSG00000233517	AC005162.2	-1.41	3.89E-07	2.23E-05
ENSG00000255471	AP001528.2	-1.24	6.99E-07	3.69E-05
ENSG00000275491	LINC01730	1.05	1.04E-06	5.07E-05
ENSG00000259676	AC103982.1	-1.34	1.44E-06	6.63E-05
ENSG00000251562	MALAT1	0.69	1.98E-06	8.80E-05
ENSG00000268621	IGFL2-AS1	2.53	4.15E-06	1.68E-04
ENSG00000130600	H19	2.12	4.17E-06	1.68E-04
ENSG00000272568	AC005162.3	-1.24	4.18E-06	1.68E-04
ENSG00000246228	CASC8	-1.89	4.42E-06	1.76E-04
ENSG00000270661	Z99289.2	-1.30	5.46E-06	2.11E-04
ENSG00000242759	LINC00882	-0.91	5.70E-06	2.19E-04
ENSG00000177822	AC098864.1	-0.96	6.43E-06	2.45E-04
ENSG00000226571	AL158850.1	-1.55	6.79E-06	2.57E-04
ENSG00000259439	LINC01833	-1.17	1.21E-05	4.06E-04
ENSG00000163597	SNHG16	0.59	1.31E-05	4.33E-04
ENSG00000275185	AC130324.3	-1.02	1.51E-05	4.82E-04
ENSG00000274307	AC023449.2	-1.11	1.53E-05	4.84E-04
ENSG00000257060	AC091078.1	-1.59	1.59E-05	4.99E-04
ENSG00000225733	FGD5-AS1	-0.62	1.77E-05	5.46E-04
ENSG00000226149	AL356124.1	1.27	1.90E-05	5.79E-04
ENSG00000249279	LINC02057	-1.85	2.41E-05	7.10E-04
ENSG00000267383	AC011447.3	-0.67	4.49E-05	1.20E-03
ENSG00000258725	PRC1-AS1	1.18	4.92E-05	1.29E-03
ENSG00000253642	AF279873.3	-2.44	4.95E-05	1.29E-03
ENSG00000246985	SOCS2-AS1	0.86	6.12E-05	1.54E-03
ENSG00000250072	AC091940.1	-1.02	6.40E-05	1.60E-03
ENSG00000267750	RUNDC3A-AS1	0.90	8.03E-05	1.92E-03
ENSG00000270504	AL391422.3	-0.87	8.75E-05	2.07E-03
ENSG00000244041	LINC01011	0.99	8.88E-05	2.10E-03
ENSG00000196295	AC005154.1	0.44	9.07E-05	2.13E-03
ENSG00000232110	AL353751.1	-1.53	9.47E-05	2.21E-03
ENSG00000276997	AL513314.2	1.60	1.24E-04	2.74E-03
ENSG00000258123	LINC02444	-1.93	1.27E-04	2.80E-03
ENSG00000228421	AC005013.1	-1.15	1.30E-04	2.85E-03
ENSG00000215039	CD27-AS1	0.81	1.47E-04	3.16E-03
ENSG00000225377	NRSN2-AS1	0.76	2.24E-04	4.42E-03
ENSG00000254626	AP003100.1	-1.02	2.48E-04	4.80E-03
ENSG00000222041	CYTOR	-0.55	2.62E-04	4.99E-03
ENSG00000232973	CYP1B1-AS1	0.75	2.74E-04	5.16E-03
ENSG00000246273	SBF2-AS1	-0.81	3.37E-04	6.07E-03
ENSG00000255284	AP006621.3	0.97	3.70E-04	6.58E-03
ENSG00000251350	LINC02475	-0.97	4.66E-04	7.74E-03
ENSG00000235139	AC003984.1	1.13	4.91E-04	8.04E-03
ENSG00000226674	TEX41	0.86	5.72E-04	9.10E-03
ENSG00000248491	AC093772.1	-1.85	6.12E-04	9.64E-03
ENSG00000257242	LINC01619	1.56	6.42E-04	1.00E-02
ENSG00000235590	GNAS-AS1	-0.80	6.65E-04	1.02E-02
ENSG00000228878	SEPT7-AS1	1.05	8.93E-04	1.28E-02
ENSG00000227456	LINC00310	1.22	9.28E-04	1.32E-02
ENSG00000245532	NEAT1	0.69	9.75E-04	1.38E-02

ENSG00000233008	LINC01725	0.75	1.04E-03	1.46E-02
ENSG00000273350	AC004832.5	1.28	1.06E-03	1.48E-02
ENSG00000276672	AL161891.1	-0.68	1.32E-03	1.76E-02
ENSG00000228649	SNHG26	-0.98	1.35E-03	1.79E-02
ENSG00000248309	MEF2C-AS1	1.04	1.38E-03	1.82E-02
ENSG00000278709	NKILA	-1.32	1.39E-03	1.82E-02
ENSG00000224606	TGFA-IT1	-1.14	1.43E-03	1.87E-02
ENSG00000274414	AL121772.1	-1.21	1.63E-03	2.06E-02
ENSG00000203706	SERTAD4-AS1	1.40	1.64E-03	2.06E-02
ENSG00000245614	DDX11-AS1	-0.74	1.65E-03	2.08E-02
ENSG00000225218	AP001628.1	1.42	1.69E-03	2.11E-02
ENSG00000226758	DISC1-IT1	0.98	1.81E-03	2.22E-02
ENSG00000279066	AC132938.5	1.24	1.86E-03	2.28E-02
ENSG00000274976	AC087588.2	-1.75	1.91E-03	2.33E-02
ENSG00000236242	MYO16-AS1	0.96	1.97E-03	2.39E-02
ENSG00000271911	AL357054.3	0.91	2.00E-03	2.41E-02
ENSG00000262061	AC129507.1	-0.98	2.02E-03	2.43E-02
ENSG00000235192	AC009495.3	-1.03	2.05E-03	2.46E-02
ENSG00000269821	KCNQ1OT1	-0.52	2.10E-03	2.51E-02
ENSG00000246528	AC079089.1	-1.17	2.11E-03	2.52E-02
ENSG00000261801	LOXL1-AS1	0.61	2.25E-03	2.65E-02
ENSG00000189223	PAX8-AS1	0.79	2.29E-03	2.69E-02
ENSG00000263603	AC127024.2	0.80	2.47E-03	2.85E-02
ENSG00000240666	MME-AS1	-1.82	2.50E-03	2.88E-02
ENSG00000262454	MIR193BHG	0.61	2.52E-03	2.90E-02
ENSG00000196668	LINC00173	0.88	2.55E-03	2.92E-02
ENSG00000235545	AC103923.1	-1.38	2.58E-03	2.95E-02
ENSG00000277007	AC096642.1	0.69	2.79E-03	3.13E-02
ENSG00000257337	AC068888.1	0.60	3.05E-03	3.36E-02
ENSG00000231535	LINC00278	0.76	3.27E-03	3.53E-02
ENSG00000269998	LINC01930	0.98	3.28E-03	3.53E-02
ENSG00000163009	C2orf48	-1.05	3.40E-03	3.63E-02
ENSG00000246090	AP002026.1	-0.68	3.53E-03	3.74E-02
ENSG00000233695	GAS6-AS1	0.80	3.55E-03	3.75E-02
ENSG00000238033	AC002480.4	-1.07	3.57E-03	3.77E-02
ENSG00000271727	AL357054.2	0.98	3.67E-03	3.86E-02
ENSG00000272142	AL359643.3	0.53	3.87E-03	4.01E-02
ENSG00000261083	LINC02516	1.08	4.14E-03	4.22E-02
ENSG00000270049	AC009061.2	0.91	4.15E-03	4.23E-02
ENSG00000251179	TMEM92-AS1	1.26	4.21E-03	4.27E-02
ENSG00000227598	Z94721.1	-1.05	4.22E-03	4.27E-02
ENSG00000157306	ZFH2-AS1	0.75	4.41E-03	4.41E-02
ENSG00000231918	AC007402.1	-1.07	4.49E-03	4.47E-02
ENSG00000260563	AC132872.1	0.76	4.50E-03	4.47E-02
ENSG00000225206	MIR137HG	0.50	4.50E-03	4.47E-02
ENSG00000253372	AC016405.1	-1.26	4.58E-03	4.54E-02
ENSG00000235026	DPP10-AS1	-1.59	4.65E-03	4.59E-02
ENSG00000262528	AL022341.2	1.46	4.70E-03	4.63E-02
ENSG00000272622	AC010735.2	-0.60	4.73E-03	4.65E-02
ENSG00000234840	LINC01239	0.55	4.80E-03	4.70E-02
ENSG00000261971	MMP25-AS1	0.60	4.88E-03	4.76E-02
ENSG00000246640	PICART1	1.62	4.99E-03	4.84E-02
ENSG00000277587	AC008759.3	-2.44	4.99E-03	4.84E-02
ENSG00000267263	AC111170.2	0.72	5.18E-03	4.96E-02
ENSG00000223764	AL645608.1	0.98	5.22E-03	4.99E-02

List of DE LncRNAs (ShortTKD vs. NC)

	symbol	logFC	PValue	qvalue
ENSG00000260604	AL590004.4	-1.55	1.77E-15	1.15E-12
ENSG00000163597	SNHG16	0.69	2.73E-11	7.48E-09
ENSG00000259820	AC083843.2	-0.77	1.18E-05	7.40E-04
ENSG00000260912	AL158206.1	-1.92	8.22E-05	3.71E-03
ENSG00000232677	LINC00665	0.42	1.52E-04	6.09E-03
ENSG00000223960	AC009948.1	-0.75	1.82E-04	7.04E-03
ENSG00000231298	LINC00704	-0.75	3.35E-04	1.18E-02
ENSG00000246695	RASSF8-AS1	-0.49	4.37E-04	1.46E-02
ENSG00000257167	TMPO-AS1	-0.54	1.13E-03	3.08E-02
ENSG00000273373	AL355488.2	-0.63	1.69E-03	4.20E-02
ENSG00000175728	C11orf44	-1.21	1.72E-03	4.25E-02
ENSG00000263327	TAPT1-AS1	-0.47	1.78E-03	4.35E-02
ENSG00000256124	LINC01152	0.63	1.90E-03	4.60E-02
ENSG00000271888	AL136162.1	-1.95	1.93E-03	4.65E-02
ENSG00000272367	AC018754.1	-1.19	2.09E-03	4.94E-02

List of DE LncRNAs (Both Down-regulated)

	symbol
ENSG00000260604	AL590004.4
ENSG00000257167	TMPO-AS1

List of DE LncRNA (Both Up-regulated)

symbol

ENSG00000163597 SNHG16

## List of DE pcRNAs (LongTKD vs. NC)

	symbol	group	logFC	PValue	qvalue
ENSG00000144959	NCEH1	protein_coding	-2.65	1.06E-67	1.68E-63
ENSG00000153904	DDAH1	protein_coding	-2.42	5.46E-53	4.33E-49
ENSG00000179826	MRGPRX3	protein_coding	-2.43	1.90E-48	1.00E-44
ENSG00000151468	CCDC3	protein_coding	-1.66	1.56E-38	6.18E-35
ENSG00000142149	HUNK	protein_coding	-1.69	1.17E-33	3.71E-30
ENSG00000169429	CXCL8	protein_coding	-2.09	4.28E-33	1.13E-29
ENSG00000128052	KDR	protein_coding	-2.17	9.54E-33	2.16E-29
ENSG00000164458	T	protein_coding	-1.51	1.33E-27	2.34E-24
ENSG00000101350	KIF3B	protein_coding	1.24	4.96E-22	7.85E-19
ENSG00000123908	AGO2	protein_coding	-1.19	1.59E-21	2.29E-18
ENSG00000124126	PREX1	protein_coding	-1.67	1.10E-20	1.46E-17
ENSG00000157766	ACAN	protein_coding	-1.44	1.63E-20	1.99E-17
ENSG00000235162	C12orf75	protein_coding	-1.22	6.21E-20	7.02E-17
ENSG00000063180	CA11	protein_coding	1.35	1.05E-19	1.11E-16
ENSG00000064393	HIPK2	protein_coding	-1.19	4.25E-19	4.21E-16
ENSG00000148730	EIF4EBP2	protein_coding	-1.05	5.07E-19	4.72E-16
ENSG00000111859	NEDD9	protein_coding	-1.14	9.84E-19	8.65E-16
ENSG00000140105	WARS	protein_coding	1.34	1.90E-18	1.59E-15
ENSG00000147853	AK3	protein_coding	1.27	2.13E-18	1.68E-15
ENSG00000147724	FAM135B	protein_coding	-2.12	2.80E-18	2.11E-15
ENSG00000100196	KDEL3	protein_coding	-1.27	4.38E-18	3.15E-15
ENSG00000125398	SOX9	protein_coding	-1.09	9.76E-18	6.72E-15
ENSG00000178031	ADAMTSL1	protein_coding	-1.32	1.96E-17	1.29E-14
ENSG00000166780	C16orf45	protein_coding	1.05	2.85E-17	1.80E-14
ENSG00000166881	NEMP1	protein_coding	-1.03	4.00E-17	2.44E-14
ENSG00000117868	ESYT2	protein_coding	-1.01	5.10E-17	2.99E-14
ENSG00000185418	TARSL2	protein_coding	-1.13	6.62E-17	3.74E-14
ENSG00000065911	MTHFD2	protein_coding	-1.06	6.99E-17	3.82E-14
ENSG00000165891	E2F7	protein_coding	-1.12	9.02E-17	4.76E-14
ENSG00000125247	TMTC4	protein_coding	-1.17	1.14E-16	5.81E-14
ENSG00000145335	SNCA	protein_coding	1.37	1.22E-16	6.04E-14
ENSG00000105855	ITGB8	protein_coding	-1.79	2.47E-16	1.15E-13
ENSG00000163359	COL6A3	protein_coding	-1.31	2.43E-16	1.15E-13
ENSG00000151892	GFRA1	protein_coding	-1.18	5.25E-16	2.38E-13
ENSG00000103723	AP3B2	protein_coding	-1.55	8.82E-16	3.88E-13
ENSG00000164442	CITED2	protein_coding	0.95	1.19E-15	5.11E-13
ENSG00000099250	NRP1	protein_coding	0.94	1.75E-15	7.29E-13
ENSG00000153179	RASSF3	protein_coding	-1.08	2.16E-15	8.76E-13
ENSG00000120539	MASTL	protein_coding	-1.03	3.10E-15	1.23E-12
ENSG00000111837	MAK	protein_coding	-1.84	3.70E-15	1.43E-12
ENSG00000156804	FBXO32	protein_coding	1.05	5.06E-15	1.91E-12
ENSG00000130066	SAT1	protein_coding	1.34	7.43E-15	2.74E-12
ENSG00000092201	SUPT16H	protein_coding	-1.09	8.57E-15	3.08E-12
ENSG00000127951	FGL2	protein_coding	-1.67	9.18E-15	3.23E-12
ENSG00000049323	LTBP1	protein_coding	-1.03	1.08E-14	3.73E-12
ENSG00000152092	ASTN1	protein_coding	-2.19	1.77E-14	5.82E-12
ENSG00000162645	GBP2	protein_coding	1.30	1.73E-14	5.82E-12
ENSG00000070614	NDST1	protein_coding	1.59	2.06E-14	6.52E-12
ENSG00000143641	GALNT2	protein_coding	1.01	2.04E-14	6.52E-12
ENSG00000143476	DTL	protein_coding	-0.89	3.95E-14	1.23E-11
ENSG00000143878	RHOB	protein_coding	-1.73	4.57E-14	1.39E-11
ENSG00000198682	PAPSS2	protein_coding	-1.08	5.32E-14	1.59E-11
ENSG00000115339	GALNT3	protein_coding	-1.53	7.40E-14	2.17E-11
ENSG00000185896	LAMP1	protein_coding	0.85	1.25E-13	3.60E-11
ENSG00000137571	SLCO5A1	protein_coding	-1.64	1.41E-13	3.98E-11
ENSG00000178695	KCTD12	protein_coding	1.33	1.76E-13	4.87E-11
ENSG00000001461	NIPAL3	protein_coding	1.11	2.72E-13	7.29E-11
ENSG00000119938	PPP1R3C	protein_coding	-1.20	3.32E-13	8.75E-11
ENSG00000123213	NLN	protein_coding	1.16	3.37E-13	8.75E-11
ENSG00000008513	ST3GAL1	protein_coding	-1.23	3.94E-13	1.01E-10
ENSG00000137393	RNF144B	protein_coding	-1.62	5.20E-13	1.31E-10
ENSG00000101290	CDS2	protein_coding	-1.28	6.03E-13	1.49E-10
ENSG00000158516	CPA2	protein_coding	-0.99	7.24E-13	1.76E-10

ENSG00000163106	HPGDS	protein_coding	-1.38	7.95E-13	1.91E-10
ENSG00000111696	NT5DC3	protein_coding	-0.79	1.86E-12	4.40E-10
ENSG00000171451	DSEL	protein_coding	1.65	2.77E-12	6.45E-10
ENSG00000198729	PPP1R14C	protein_coding	-1.33	2.83E-12	6.50E-10
ENSG00000114812	VIPR1	protein_coding	1.37	3.09E-12	6.98E-10
ENSG00000003989	SLC7A2	protein_coding	-1.46	3.42E-12	7.63E-10
ENSG00000106617	PRKAG2	protein_coding	-1.10	3.80E-12	8.37E-10
ENSG00000120656	TAF12	protein_coding	1.08	4.31E-12	9.21E-10
ENSG00000174469	CNTNAP2	protein_coding	-1.82	4.25E-12	9.21E-10
ENSG00000101911	PRPS2	protein_coding	1.36	4.82E-12	1.02E-09
ENSG00000167601	AXL	protein_coding	1.29	5.03E-12	1.05E-09
ENSG00000179542	SLITRK4	protein_coding	-1.27	5.26E-12	1.08E-09
ENSG00000267041	ZNF850	protein_coding	-1.14	6.13E-12	1.24E-09
ENSG00000051341	POLQ	protein_coding	-0.94	6.29E-12	1.26E-09
ENSG00000007174	DNAH9	protein_coding	-1.12	6.49E-12	1.29E-09
ENSG00000260027	HOXB7	protein_coding	-1.31	6.89E-12	1.35E-09
ENSG00000163739	CXCL1	protein_coding	-1.21	1.11E-11	2.14E-09
ENSG00000168329	CX3CR1	protein_coding	-1.07	1.18E-11	2.25E-09
ENSG00000082458	DLG3	protein_coding	-0.88	1.44E-11	2.72E-09
ENSG00000128595	CALU	protein_coding	-0.97	1.78E-11	3.31E-09
ENSG00000163235	TGFA	protein_coding	-0.93	1.81E-11	3.33E-09
ENSG00000149547	EI24	protein_coding	-0.96	1.86E-11	3.36E-09
ENSG00000165704	HPRT1	protein_coding	1.42	1.87E-11	3.36E-09
ENSG00000148572	NRBF2	protein_coding	-1.41	1.93E-11	3.43E-09
ENSG00000139318	DUSP6	protein_coding	-1.45	2.10E-11	3.70E-09
ENSG00000145808	ADAMTS19	protein_coding	-1.88	2.88E-11	4.95E-09
ENSG00000168079	SCARA5	protein_coding	-0.95	3.05E-11	5.19E-09
ENSG00000144331	ZNF385B	protein_coding	-0.99	3.12E-11	5.25E-09
ENSG00000213390	ARHGAP19	protein_coding	-1.10	3.20E-11	5.34E-09
ENSG00000075790	BCAP29	protein_coding	-1.14	3.38E-11	5.58E-09
ENSG00000183688	RFLNB	protein_coding	-1.07	4.61E-11	7.45E-09
ENSG00000147416	ATP6V1B2	protein_coding	-1.06	4.73E-11	7.56E-09
ENSG00000069702	TGFBR3	protein_coding	-1.04	4.79E-11	7.58E-09
ENSG00000057657	PRDM1	protein_coding	1.15	5.12E-11	8.03E-09
ENSG00000100346	CACNA1I	protein_coding	-1.69	5.43E-11	8.43E-09
ENSG00000196937	FAM3C	protein_coding	-1.28	5.89E-11	9.05E-09
ENSG00000112182	BACH2	protein_coding	-1.54	7.24E-11	1.10E-08
ENSG00000100554	ATP6V1D	protein_coding	0.91	7.77E-11	1.16E-08
ENSG00000137440	FGFBP1	protein_coding	-1.22	7.75E-11	1.16E-08
ENSG00000182253	SYNM	protein_coding	0.92	8.27E-11	1.22E-08
ENSG00000174804	FZD4	protein_coding	-1.32	8.76E-11	1.28E-08
ENSG00000152049	KCNE4	protein_coding	1.77	9.41E-11	1.37E-08
ENSG00000048471	SNX29	protein_coding	0.83	1.01E-10	1.44E-08
ENSG00000142731	PLK4	protein_coding	-1.01	1.00E-10	1.44E-08
ENSG000000073756	PTGS2	protein_coding	-1.46	1.31E-10	1.85E-08
ENSG00000172296	SPTLC3	protein_coding	-1.37	1.34E-10	1.88E-08
ENSG00000108854	SMURF2	protein_coding	-1.20	1.44E-10	2.00E-08
ENSG00000088836	SLC4A11	protein_coding	-1.31	2.12E-10	2.92E-08
ENSG00000176597	B3GNT5	protein_coding	-1.15	2.26E-10	3.08E-08
ENSG00000168209	DDIT4	protein_coding	1.53	3.11E-10	4.21E-08
ENSG00000068366	ACSL4	protein_coding	1.09	3.39E-10	4.50E-08
ENSG00000076356	PLXNA2	protein_coding	-1.14	3.38E-10	4.50E-08
ENSG00000154928	EPHB1	protein_coding	-1.70	3.45E-10	4.55E-08
ENSG00000109084	TMEM97	protein_coding	-0.98	3.82E-10	4.99E-08
ENSG00000060982	BCAT1	protein_coding	-1.46	4.04E-10	5.25E-08
ENSG00000171476	HOPX	protein_coding	-1.18	4.12E-10	5.30E-08
ENSG00000006125	AP2B1	protein_coding	0.71	4.85E-10	6.19E-08
ENSG00000184408	KCND2	protein_coding	-1.24	5.33E-10	6.74E-08
ENSG00000124762	CDKN1A	protein_coding	1.71	6.05E-10	7.60E-08
ENSG00000134046	MBD2	protein_coding	1.03	6.47E-10	8.07E-08
ENSG00000094916	CBX5	protein_coding	-0.80	6.75E-10	8.35E-08
ENSG00000166845	C18orf54	protein_coding	-0.98	6.94E-10	8.51E-08
ENSG00000146674	IGFBP3	protein_coding	1.57	8.56E-10	1.04E-07
ENSG00000148948	LRRRC4C	protein_coding	-1.33	8.65E-10	1.04E-07
ENSG00000198554	WDHD1	protein_coding	-0.86	8.76E-10	1.05E-07

ENSG00000133606	MKRN1	protein_coding	0.80	9.04E-10	1.08E-07
ENSG00000183762	KREMEN1	protein_coding	-1.31	9.31E-10	1.10E-07
ENSG00000187123	LYPD6	protein_coding	-1.06	1.16E-09	1.36E-07
ENSG00000133740	E2F5	protein_coding	-1.46	1.24E-09	1.45E-07
ENSG00000182158	CREB3L2	protein_coding	-1.16	1.28E-09	1.48E-07
ENSG00000136826	KLF4	protein_coding	-1.04	1.38E-09	1.58E-07
ENSG00000113615	SEC24A	protein_coding	-0.95	1.49E-09	1.69E-07
ENSG00000128872	TMOD2	protein_coding	-0.96	1.49E-09	1.69E-07
ENSG00000100219	XBP1	protein_coding	-0.78	1.62E-09	1.82E-07
ENSG00000000460	C1orf112	protein_coding	-1.02	1.81E-09	2.02E-07
ENSG00000118523	CTGF	protein_coding	-1.21	1.83E-09	2.03E-07
ENSG00000169902	TPST1	protein_coding	-1.13	2.41E-09	2.64E-07
ENSG0000013016	EHD3	protein_coding	-1.37	2.46E-09	2.67E-07
ENSG00000069188	SDK2	protein_coding	1.03	2.48E-09	2.67E-07
ENSG00000136237	RAPGEF5	protein_coding	-1.42	2.48E-09	2.67E-07
ENSG00000197299	BLM	protein_coding	-0.82	2.53E-09	2.71E-07
ENSG00000136010	ALDH1L2	protein_coding	-0.96	2.69E-09	2.84E-07
ENSG00000151414	NEK7	protein_coding	-1.01	2.67E-09	2.84E-07
ENSG00000122986	HVCN1	protein_coding	-1.00	2.90E-09	3.05E-07
ENSG00000094804	CDC6	protein_coding	-0.88	3.10E-09	3.22E-07
ENSG00000183049	CAMK1D	protein_coding	1.07	3.12E-09	3.23E-07
ENSG00000153162	BMP6	protein_coding	-1.24	3.50E-09	3.60E-07
ENSG00000131374	TBC1D5	protein_coding	0.81	3.69E-09	3.77E-07
ENSG00000169180	XPO6	protein_coding	0.83	3.84E-09	3.90E-07
ENSG00000186470	BTN3A2	protein_coding	0.77	3.92E-09	3.96E-07
ENSG00000114541	FRMD4B	protein_coding	-1.34	4.18E-09	4.19E-07
ENSG00000146950	SHROOM2	protein_coding	-1.06	4.42E-09	4.40E-07
ENSG00000174010	KLHL15	protein_coding	-0.92	4.88E-09	4.83E-07
ENSG00000112902	SEMA5A	protein_coding	0.85	4.93E-09	4.84E-07
ENSG00000057294	PKP2	protein_coding	-1.01	5.01E-09	4.90E-07
ENSG00000117153	KLHL12	protein_coding	-0.69	5.14E-09	4.99E-07
ENSG00000154511	FAM69A	protein_coding	-1.17	5.24E-09	5.05E-07
ENSG00000150867	PIP4K2A	protein_coding	-0.75	5.84E-09	5.60E-07
ENSG00000143512	HHIPL2	protein_coding	1.15	5.88E-09	5.61E-07
ENSG00000047662	FAM184B	protein_coding	-1.02	6.02E-09	5.67E-07
ENSG00000196139	AKR1C3	protein_coding	1.34	5.99E-09	5.67E-07
ENSG00000107679	PLEKHA1	protein_coding	-1.22	6.07E-09	5.68E-07
ENSG00000143322	ABL2	protein_coding	-0.62	6.23E-09	5.80E-07
ENSG00000119335	SET	protein_coding	-0.71	6.77E-09	6.27E-07
ENSG00000111247	RAD51AP1	protein_coding	-0.79	1.01E-08	9.33E-07
ENSG00000171345	KRT19	protein_coding	-1.64	1.14E-08	1.04E-06
ENSG00000175984	DENND2C	protein_coding	-1.28	1.42E-08	1.29E-06
ENSG00000120802	TMPO	protein_coding	-0.73	1.49E-08	1.35E-06
ENSG00000115414	FN1	protein_coding	-0.72	1.51E-08	1.36E-06
ENSG00000153956	CACNA2D1	protein_coding	1.49	1.55E-08	1.39E-06
ENSG00000120211	INSL4	protein_coding	-2.05	1.62E-08	1.44E-06
ENSG00000139496	NUP58	protein_coding	-0.74	1.73E-08	1.53E-06
ENSG00000109586	GALNT7	protein_coding	-0.84	1.82E-08	1.59E-06
ENSG00000110048	OSBP	protein_coding	0.77	1.92E-08	1.66E-06
ENSG00000135823	STX6	protein_coding	0.89	2.03E-08	1.75E-06
ENSG00000104490	NCALD	protein_coding	0.88	2.22E-08	1.90E-06
ENSG00000143418	CERS2	protein_coding	0.68	2.35E-08	2.00E-06
ENSG00000173281	PPP1R3B	protein_coding	-0.90	2.47E-08	2.09E-06
ENSG00000064989	CALCRL	protein_coding	-1.03	2.49E-08	2.10E-06
ENSG00000085563	ABCB1	protein_coding	-0.90	2.80E-08	2.35E-06
ENSG00000150782	IL18	protein_coding	-1.15	2.88E-08	2.39E-06
ENSG00000182310	SPACA6	protein_coding	1.02	2.89E-08	2.39E-06
ENSG00000170537	TMC7	protein_coding	-0.88	3.01E-08	2.48E-06
ENSG00000152804	HHEX	protein_coding	-1.14	3.92E-08	3.22E-06
ENSG00000130518	KIAA1683	protein_coding	1.35	4.20E-08	3.41E-06
ENSG00000146426	TIAM2	protein_coding	-0.85	4.55E-08	3.66E-06
ENSG00000115107	STEAP3	protein_coding	0.77	4.76E-08	3.79E-06
ENSG00000159335	PTMS	protein_coding	1.16	4.80E-08	3.80E-06
ENSG00000184988	TMEM106A	protein_coding	-0.78	4.85E-08	3.82E-06
ENSG00000108924	HLF	protein_coding	1.06	4.96E-08	3.89E-06



ENSG00000164236	ANKRD33B	protein_coding	-1.02	5.13E-08	4.00E-06
ENSG00000145416	1-Mar	protein_coding	-1.03	5.40E-08	4.19E-06
ENSG00000188991	SLC15A5	protein_coding	-2.28	5.92E-08	4.55E-06
ENSG00000135074	ADAM19	protein_coding	-0.90	6.03E-08	4.62E-06
ENSG00000180801	ARSJ	protein_coding	-0.95	6.12E-08	4.66E-06
ENSG00000145990	GFOD1	protein_coding	-0.98	6.50E-08	4.92E-06
ENSG00000136492	BRIP1	protein_coding	-0.70	6.65E-08	5.01E-06
ENSG00000081059	TCF7	protein_coding	1.45	6.80E-08	5.10E-06
ENSG00000197472	ZNF695	protein_coding	-1.32	7.15E-08	5.34E-06
ENSG00000250644	AC068580.4	protein_coding	1.56	7.71E-08	5.73E-06
ENSG00000119328	FAM206A	protein_coding	-1.06	7.81E-08	5.78E-06
ENSG00000163257	DCAF16	protein_coding	-0.66	7.96E-08	5.86E-06
ENSG00000124767	GLO1	protein_coding	-0.75	8.18E-08	6.00E-06
ENSG00000135931	ARMC9	protein_coding	0.89	8.58E-08	6.23E-06
ENSG00000185345	PRKN	protein_coding	1.11	8.81E-08	6.37E-06
ENSG00000172795	DCP2	protein_coding	-1.03	8.89E-08	6.40E-06
ENSG00000156299	TIAM1	protein_coding	0.79	9.24E-08	6.62E-06
ENSG00000184731	FAM110C	protein_coding	0.98	9.43E-08	6.73E-06
ENSG00000114346	ECT2	protein_coding	-0.76	9.54E-08	6.77E-06
ENSG00000119729	RHOQ	protein_coding	-1.05	9.82E-08	6.94E-06
ENSG00000095203	EPB41L4B	protein_coding	-0.78	1.05E-07	7.41E-06
ENSG00000105270	CLIP3	protein_coding	1.57	1.07E-07	7.48E-06
ENSG00000164164	OTUD4	protein_coding	-0.65	1.12E-07	7.84E-06
ENSG00000204923	FBXO48	protein_coding	-1.03	1.24E-07	8.57E-06
ENSG00000272636	DOC2B	protein_coding	-1.67	1.24E-07	8.57E-06
ENSG00000100580	TMED8	protein_coding	0.79	1.34E-07	9.25E-06
ENSG00000125347	IRF1	protein_coding	0.93	1.40E-07	9.57E-06
ENSG00000152127	MGAT5	protein_coding	-0.65	1.44E-07	9.80E-06
ENSG00000256463	SALL3	protein_coding	-1.54	1.50E-07	1.02E-05
ENSG00000244242	IFITM10	protein_coding	1.95	1.53E-07	1.04E-05
ENSG00000155561	NUP205	protein_coding	-0.73	1.56E-07	1.05E-05
ENSG00000181019	NQO1	protein_coding	0.71	1.57E-07	1.05E-05
ENSG00000138180	CEP55	protein_coding	-0.68	1.59E-07	1.06E-05
ENSG00000171208	NETO2	protein_coding	-0.87	1.63E-07	1.09E-05
ENSG00000184156	KCNQ3	protein_coding	-1.65	1.71E-07	1.13E-05
ENSG00000102384	CENPI	protein_coding	-1.10	1.76E-07	1.16E-05
ENSG00000159314	ARHGAP27	protein_coding	1.19	1.82E-07	1.20E-05
ENSG00000164124	TMEM144	protein_coding	-0.97	1.96E-07	1.28E-05
ENSG00000138160	KIF11	protein_coding	-0.64	1.98E-07	1.28E-05
ENSG00000165474	GJB2	protein_coding	-1.48	1.97E-07	1.28E-05
ENSG00000143375	CGN	protein_coding	1.66	2.02E-07	1.30E-05
ENSG00000116133	DHCR24	protein_coding	-0.90	2.04E-07	1.31E-05
ENSG00000146918	NCAPG2	protein_coding	-0.61	2.07E-07	1.33E-05
ENSG00000138092	CENPO	protein_coding	-0.57	2.09E-07	1.33E-05
ENSG00000188993	LRRRC66	protein_coding	0.96	2.29E-07	1.46E-05
ENSG00000088854	C20orf194	protein_coding	-0.70	2.39E-07	1.50E-05
ENSG00000164023	SGMS2	protein_coding	-1.20	2.38E-07	1.50E-05
ENSG00000165959	CLMN	protein_coding	-0.90	2.62E-07	1.64E-05
ENSG00000171320	ESCO2	protein_coding	-0.89	2.64E-07	1.64E-05
ENSG00000111319	SCNN1A	protein_coding	1.07	2.68E-07	1.66E-05
ENSG00000114450	GNB4	protein_coding	-1.19	2.79E-07	1.72E-05
ENSG00000136122	BORA	protein_coding	-0.83	2.83E-07	1.74E-05
ENSG00000169871	TRIM56	protein_coding	0.60	2.97E-07	1.82E-05
ENSG00000072310	SREBF1	protein_coding	0.98	3.15E-07	1.93E-05
ENSG00000164045	CDC25A	protein_coding	-1.07	3.37E-07	2.04E-05
ENSG00000120742	SERP1	protein_coding	-0.89	3.43E-07	2.06E-05
ENSG00000250722	SELENOP	protein_coding	0.87	3.42E-07	2.06E-05
ENSG00000074590	NUAK1	protein_coding	-0.62	3.46E-07	2.07E-05
ENSG00000139631	CSAD	protein_coding	0.95	3.51E-07	2.10E-05
ENSG00000163293	NIPAL1	protein_coding	-1.01	3.52E-07	2.10E-05
ENSG00000003987	MTMR7	protein_coding	-1.92	3.67E-07	2.15E-05
ENSG00000075223	SEMA3C	protein_coding	0.87	3.68E-07	2.15E-05
ENSG00000138829	FBN2	protein_coding	-0.73	3.68E-07	2.15E-05
ENSG00000163492	CCDC141	protein_coding	-1.15	3.72E-07	2.15E-05
ENSG00000176142	TMEM39A	protein_coding	-0.85	3.71E-07	2.15E-05

ENSG00000181826	RELL1	protein_coding	-0.76	3.63E-07	2.15E-05
ENSG00000037280	FLT4	protein_coding	-1.12	3.83E-07	2.21E-05
ENSG00000198373	WWP2	protein_coding	-0.73	3.85E-07	2.21E-05
ENSG00000123219	CENPK	protein_coding	-0.93	3.92E-07	2.23E-05
ENSG00000154839	SKA1	protein_coding	-0.77	4.02E-07	2.28E-05
ENSG00000170379	TCAF2	protein_coding	-1.23	4.02E-07	2.28E-05
ENSG00000197415	VEPH1	protein_coding	-1.00	4.05E-07	2.28E-05
ENSG00000159720	ATP6V0D1	protein_coding	1.17	4.13E-07	2.32E-05
ENSG00000172071	EIF2AK3	protein_coding	-0.72	4.40E-07	2.46E-05
ENSG00000134247	PTGFRN	protein_coding	-0.74	4.56E-07	2.54E-05
ENSG00000186088	GSAP	protein_coding	-1.11	4.61E-07	2.56E-05
ENSG00000139354	GAS2L3	protein_coding	-0.75	4.75E-07	2.63E-05
ENSG00000106541	AGR2	protein_coding	-1.79	4.97E-07	2.72E-05
ENSG00000152455	SUV39H2	protein_coding	-0.84	4.96E-07	2.72E-05
ENSG00000171488	LRRRC8C	protein_coding	-1.34	4.96E-07	2.72E-05
ENSG00000149554	CHEK1	protein_coding	-0.74	5.17E-07	2.82E-05
ENSG00000146410	MTRFR2	protein_coding	-0.78	5.31E-07	2.89E-05
ENSG00000206053	JPT2	protein_coding	-0.81	5.62E-07	3.05E-05
ENSG00000163820	FYCO1	protein_coding	0.93	6.08E-07	3.27E-05
ENSG00000169213	RAB3B	protein_coding	-1.14	6.07E-07	3.27E-05
ENSG00000168952	STXBP6	protein_coding	-1.11	6.12E-07	3.29E-05
ENSG00000100906	NFKBIA	protein_coding	0.91	6.16E-07	3.29E-05
ENSG00000084710	EFR3B	protein_coding	-0.94	6.25E-07	3.33E-05
ENSG00000156966	B3GNT7	protein_coding	-1.17	6.49E-07	3.45E-05
ENSG00000148826	NKX6-2	protein_coding	-2.41	6.64E-07	3.52E-05
ENSG00000147536	GINS4	protein_coding	-0.67	7.02E-07	3.69E-05
ENSG00000101000	PROCR	protein_coding	0.80	7.11E-07	3.73E-05
ENSG00000132274	TRIM22	protein_coding	0.98	7.13E-07	3.73E-05
ENSG00000136868	SLC31A1	protein_coding	-0.76	7.20E-07	3.75E-05
ENSG00000163697	APBB2	protein_coding	0.59	7.36E-07	3.82E-05
ENSG00000129317	PUS7L	protein_coding	-0.71	7.42E-07	3.84E-05
ENSG00000160588	MPZL3	protein_coding	-1.15	7.64E-07	3.94E-05
ENSG00000181544	FANCB	protein_coding	-0.98	7.79E-07	4.00E-05
ENSG00000248109	AC011346.1	protein_coding	-0.94	7.92E-07	4.06E-05
ENSG00000162817	C1orf115	protein_coding	0.75	8.22E-07	4.19E-05
ENSG00000213988	ZNF90	protein_coding	-0.86	8.23E-07	4.19E-05
ENSG00000163507	KIAA1524	protein_coding	-0.66	8.45E-07	4.29E-05
ENSG00000068078	FGFR3	protein_coding	-1.46	8.86E-07	4.48E-05
ENSG00000121152	NCAPH	protein_coding	-0.70	8.90E-07	4.49E-05
ENSG00000163536	SERPINI1	protein_coding	0.94	9.17E-07	4.61E-05
ENSG00000139174	PRICKLE1	protein_coding	-0.88	9.53E-07	4.78E-05
ENSG00000126787	DLGAP5	protein_coding	-0.65	9.57E-07	4.78E-05
ENSG00000119283	TRIM67	protein_coding	-1.58	9.93E-07	4.93E-05
ENSG00000185950	IRS2	protein_coding	-1.02	9.93E-07	4.93E-05
ENSG00000071539	TRIP13	protein_coding	-0.78	1.01E-06	5.00E-05
ENSG00000145545	SRD5A1	protein_coding	-0.99	1.02E-06	5.00E-05
ENSG00000145569	FAM105A	protein_coding	-1.21	1.02E-06	5.00E-05
ENSG00000057663	ATG5	protein_coding	0.72	1.05E-06	5.13E-05
ENSG00000198088	NUP62CL	protein_coding	-1.23	1.05E-06	5.13E-05
ENSG00000124143	ARHGAP40	protein_coding	-1.30	1.15E-06	5.55E-05
ENSG00000139618	BRCA2	protein_coding	-0.69	1.16E-06	5.58E-05
ENSG00000196584	XRCC2	protein_coding	-0.68	1.16E-06	5.58E-05
ENSG00000110092	CCND1	protein_coding	-1.18	1.17E-06	5.59E-05
ENSG00000128656	CHN1	protein_coding	-1.11	1.19E-06	5.67E-05
ENSG00000243244	STON1	protein_coding	1.19	1.22E-06	5.80E-05
ENSG00000104081	BMF	protein_coding	0.91	1.24E-06	5.86E-05
ENSG00000152253	SPC25	protein_coding	-0.69	1.27E-06	6.00E-05
ENSG00000022840	RNF10	protein_coding	0.73	1.28E-06	6.02E-05
ENSG00000112763	BTN2A1	protein_coding	0.71	1.33E-06	6.21E-05
ENSG00000151849	CENPJ	protein_coding	-0.71	1.32E-06	6.21E-05
ENSG00000196154	S100A4	protein_coding	0.81	1.33E-06	6.21E-05
ENSG00000165186	PTCHD1	protein_coding	-0.95	1.34E-06	6.26E-05
ENSG00000168994	PXDC1	protein_coding	-0.67	1.35E-06	6.27E-05
ENSG00000120805	ARL1	protein_coding	-0.71	1.37E-06	6.33E-05
ENSG00000168078	PBK	protein_coding	-0.79	1.47E-06	6.77E-05

ENSG00000182795	C1orf116	protein_coding	-1.19	1.48E-06	6.79E-05
ENSG00000186815	TPCN1	protein_coding	0.80	1.50E-06	6.86E-05
ENSG00000124496	TRERF1	protein_coding	0.68	1.57E-06	7.17E-05
ENSG00000108797	CNTNAP1	protein_coding	0.76	1.59E-06	7.23E-05
ENSG00000225830	ERCC6	protein_coding	0.70	1.62E-06	7.36E-05
ENSG00000197822	OCLN	protein_coding	-0.95	1.65E-06	7.47E-05
ENSG00000169247	SH3TC2	protein_coding	-0.87	1.68E-06	7.58E-05
ENSG00000175155	YPEL2	protein_coding	1.27	1.81E-06	8.16E-05
ENSG00000169299	PGM2	protein_coding	-0.81	1.89E-06	8.47E-05
ENSG00000128923	MINDY2	protein_coding	-1.24	1.96E-06	8.73E-05
ENSG00000136235	GPNMB	protein_coding	0.67	2.06E-06	9.14E-05
ENSG00000104055	TGM5	protein_coding	-1.17	2.14E-06	9.48E-05
ENSG00000175395	ZNF25	protein_coding	0.95	2.17E-06	9.59E-05
ENSG00000142634	EFHD2	protein_coding	-1.19	2.26E-06	9.94E-05
ENSG00000221963	APOL6	protein_coding	1.05	2.27E-06	9.95E-05
ENSG00000108100	CCNY	protein_coding	0.84	2.41E-06	1.06E-04
ENSG00000076770	MBNL3	protein_coding	-1.31	2.42E-06	1.06E-04
ENSG00000116406	EDEM3	protein_coding	-0.82	2.44E-06	1.06E-04
ENSG00000139832	RAB20	protein_coding	-0.95	2.47E-06	1.07E-04
ENSG00000087266	SH3BP2	protein_coding	0.70	2.49E-06	1.08E-04
ENSG00000102781	KATNAL1	protein_coding	-0.69	2.51E-06	1.08E-04
ENSG00000093183	SEC22C	protein_coding	-0.79	2.53E-06	1.09E-04
ENSG00000067082	KLF6	protein_coding	-0.84	2.54E-06	1.09E-04
ENSG00000221818	EBF2	protein_coding	-2.72	2.58E-06	1.11E-04
ENSG00000140525	FANCI	protein_coding	-0.60	2.64E-06	1.13E-04
ENSG00000169184	MN1	protein_coding	0.86	2.66E-06	1.13E-04
ENSG00000103222	ABCC1	protein_coding	0.88	2.67E-06	1.13E-04
ENSG00000031691	CENPQ	protein_coding	-0.89	2.72E-06	1.15E-04
ENSG00000122707	RECK	protein_coding	0.91	2.81E-06	1.19E-04
ENSG00000025772	TOMM34	protein_coding	-0.68	2.89E-06	1.22E-04
ENSG00000205189	ZBTB10	protein_coding	-0.70	3.00E-06	1.26E-04
ENSG00000179331	RAB39A	protein_coding	-1.25	3.16E-06	1.32E-04
ENSG00000165490	DDIAS	protein_coding	-0.89	3.35E-06	1.39E-04
ENSG00000091651	ORC6	protein_coding	-0.59	3.46E-06	1.44E-04
ENSG00000059804	SLC2A3	protein_coding	-1.12	3.50E-06	1.45E-04
ENSG00000083067	TRPM3	protein_coding	-0.84	3.53E-06	1.46E-04
ENSG00000120594	PLXDC2	protein_coding	0.89	3.60E-06	1.48E-04
ENSG00000164038	SLC9B2	protein_coding	-0.97	3.59E-06	1.48E-04
ENSG00000099282	TSPAN15	protein_coding	1.08	3.67E-06	1.50E-04
ENSG00000118707	TGIF2	protein_coding	0.75	3.67E-06	1.50E-04
ENSG00000112769	LAMA4	protein_coding	-0.66	3.73E-06	1.52E-04
ENSG00000023318	ERP44	protein_coding	-0.94	3.79E-06	1.54E-04
ENSG00000068489	PRR11	protein_coding	-0.64	3.97E-06	1.61E-04
ENSG00000006432	MAP3K9	protein_coding	-0.66	4.06E-06	1.64E-04
ENSG00000167005	NUDT21	protein_coding	-0.96	4.27E-06	1.71E-04
ENSG00000179119	SPTY2D1	protein_coding	-0.58	4.34E-06	1.74E-04
ENSG00000138162	TACC2	protein_coding	0.73	4.44E-06	1.77E-04
ENSG00000069667	RORA	protein_coding	-1.00	4.51E-06	1.79E-04
ENSG00000143412	ANXA9	protein_coding	1.34	4.51E-06	1.79E-04
ENSG00000174579	MSL2	protein_coding	-0.59	4.60E-06	1.81E-04
ENSG00000111540	RAB5B	protein_coding	0.65	4.64E-06	1.82E-04
ENSG00000111962	UST	protein_coding	0.74	4.63E-06	1.82E-04
ENSG00000136240	KDEL2	protein_coding	-0.76	4.67E-06	1.82E-04
ENSG00000101773	RBBP8	protein_coding	-0.79	4.86E-06	1.90E-04
ENSG00000182307	C8orf33	protein_coding	-0.77	5.00E-06	1.94E-04
ENSG00000117228	GBP1	protein_coding	0.84	5.34E-06	2.07E-04
ENSG00000154310	TNIK	protein_coding	0.82	5.53E-06	2.13E-04
ENSG00000163611	SPICE1	protein_coding	-0.70	6.06E-06	2.33E-04
ENSG00000134013	LOXL2	protein_coding	0.66	6.18E-06	2.37E-04
ENSG00000143033	MTF2	protein_coding	-0.64	6.32E-06	2.41E-04
ENSG00000170365	SMAD1	protein_coding	0.73	6.45E-06	2.45E-04
ENSG00000107643	MAPK8	protein_coding	-0.94	6.57E-06	2.50E-04
ENSG00000157827	FMNL2	protein_coding	0.64	6.62E-06	2.51E-04
ENSG00000163346	PBXIP1	protein_coding	0.88	6.87E-06	2.59E-04
ENSG00000155858	LSM11	protein_coding	-0.73	6.92E-06	2.60E-04

ENSG00000188042	ARL4C	protein_coding	1.16	7.00E-06	2.63E-04
ENSG00000156642	NPTN	protein_coding	-0.85	7.13E-06	2.67E-04
ENSG00000101040	ZMYND8	protein_coding	0.53	7.28E-06	2.72E-04
ENSG00000159479	MED8	protein_coding	-0.82	7.46E-06	2.78E-04
ENSG00000105552	BCAT2	protein_coding	0.89	7.76E-06	2.88E-04
ENSG00000170624	SGCD	protein_coding	-1.15	7.77E-06	2.88E-04
ENSG00000167034	NKX3-1	protein_coding	-0.65	7.83E-06	2.89E-04
ENSG00000146278	PNRC1	protein_coding	1.10	7.87E-06	2.90E-04
ENSG00000197971	MBP	protein_coding	-0.74	8.16E-06	3.00E-04
ENSG00000092010	PSME1	protein_coding	0.53	8.26E-06	3.01E-04
ENSG00000115904	SOS1	protein_coding	-0.79	8.25E-06	3.01E-04
ENSG00000133985	TTC9	protein_coding	-0.86	8.22E-06	3.01E-04
ENSG00000169379	ARL13B	protein_coding	-0.69	8.24E-06	3.01E-04
ENSG00000188313	PLSCR1	protein_coding	-0.70	8.28E-06	3.01E-04
ENSG00000112276	BVES	protein_coding	-0.93	8.36E-06	3.04E-04
ENSG00000176853	FAM91A1	protein_coding	-0.97	8.39E-06	3.04E-04
ENSG00000119801	YPEL5	protein_coding	0.90	8.43E-06	3.05E-04
ENSG00000106537	TSPAN13	protein_coding	-0.85	8.60E-06	3.10E-04
ENSG00000184661	CDCA2	protein_coding	-0.61	8.61E-06	3.10E-04
ENSG00000115641	FHL2	protein_coding	0.94	8.73E-06	3.13E-04
ENSG00000150347	ARID5B	protein_coding	0.65	8.72E-06	3.13E-04
ENSG00000177189	RPS6KA3	protein_coding	-0.63	8.81E-06	3.15E-04
ENSG00000198018	ENTPD7	protein_coding	-0.71	8.84E-06	3.15E-04
ENSG00000272398	CD24	protein_coding	-1.27	8.89E-06	3.16E-04
ENSG00000107099	DOCK8	protein_coding	1.43	8.95E-06	3.17E-04
ENSG00000174839	DENND6A	protein_coding	-0.73	8.95E-06	3.17E-04
ENSG00000185585	OLFML2A	protein_coding	-0.95	9.07E-06	3.21E-04
ENSG00000115825	PRKD3	protein_coding	0.67	9.30E-06	3.26E-04
ENSG00000125249	RAP2A	protein_coding	1.11	9.28E-06	3.26E-04
ENSG00000179010	MRFAP1	protein_coding	-0.64	9.26E-06	3.26E-04
ENSG00000134369	NAV1	protein_coding	0.82	9.60E-06	3.35E-04
ENSG00000168306	ACOX2	protein_coding	-1.31	9.57E-06	3.35E-04
ENSG00000196141	SPATS2L	protein_coding	-0.63	9.61E-06	3.35E-04
ENSG00000111412	C12orf49	protein_coding	-0.91	9.84E-06	3.42E-04
ENSG00000125885	MCM8	protein_coding	-0.59	9.95E-06	3.45E-04
ENSG00000163995	ABLIM2	protein_coding	-1.73	1.02E-05	3.54E-04
ENSG00000157388	CACNA1D	protein_coding	0.60	1.05E-05	3.62E-04
ENSG00000133110	POSTN	protein_coding	-1.04	1.07E-05	3.66E-04
ENSG00000169604	ANTXR1	protein_coding	0.66	1.07E-05	3.66E-04
ENSG00000154127	UBASH3B	protein_coding	-0.77	1.07E-05	3.66E-04
ENSG00000170004	CHD3	protein_coding	0.90	1.10E-05	3.75E-04
ENSG00000158352	SHROOM4	protein_coding	-0.83	1.11E-05	3.79E-04
ENSG00000113194	FAP2	protein_coding	-0.59	1.15E-05	3.89E-04
ENSG00000139192	TAPBPL	protein_coding	1.07	1.17E-05	3.97E-04
ENSG00000150637	CD226	protein_coding	-1.47	1.17E-05	3.97E-04
ENSG00000149577	SIDT2	protein_coding	0.70	1.18E-05	3.99E-04
ENSG00000150961	SEC24D	protein_coding	-0.52	1.21E-05	4.06E-04
ENSG00000154640	BTG3	protein_coding	-0.62	1.21E-05	4.06E-04
ENSG00000035403	VCL	protein_coding	0.73	1.23E-05	4.12E-04
ENSG00000071282	LMCD1	protein_coding	-1.01	1.24E-05	4.14E-04
ENSG00000164466	SFXN1	protein_coding	-0.60	1.27E-05	4.22E-04
ENSG00000164463	CREBRF	protein_coding	0.82	1.27E-05	4.23E-04
ENSG00000175606	TMEM70	protein_coding	-0.91	1.31E-05	4.32E-04
ENSG00000164024	METAP1	protein_coding	-0.82	1.31E-05	4.33E-04
ENSG00000146858	ZC3HAV1L	protein_coding	-0.71	1.32E-05	4.35E-04
ENSG00000170153	RNF150	protein_coding	0.92	1.35E-05	4.44E-04
ENSG00000162654	GBP4	protein_coding	1.28	1.37E-05	4.49E-04
ENSG00000126010	GRPR	protein_coding	-1.03	1.38E-05	4.53E-04
ENSG00000138801	PAPSS1	protein_coding	-0.56	1.39E-05	4.55E-04
ENSG00000181450	ZNF678	protein_coding	-0.69	1.40E-05	4.56E-04
ENSG00000087076	HSD17B14	protein_coding	0.93	1.41E-05	4.58E-04
ENSG00000183814	LIN9	protein_coding	-0.74	1.41E-05	4.58E-04
ENSG00000196517	SLC6A9	protein_coding	1.77	1.42E-05	4.60E-04
ENSG00000177981	ASB8	protein_coding	0.65	1.45E-05	4.68E-04
ENSG00000110660	SLC35F2	protein_coding	-0.77	1.46E-05	4.70E-04

ENSG00000198369	SPRED2	protein_coding	-0.57	1.47E-05	4.75E-04
ENSG00000158089	GALNT14	protein_coding	-0.93	1.49E-05	4.78E-04
ENSG00000112541	PDE10A	protein_coding	1.20	1.50E-05	4.81E-04
ENSG00000129810	SGO1	protein_coding	-0.67	1.51E-05	4.83E-04
ENSG00000198855	FICD	protein_coding	-0.76	1.52E-05	4.83E-04
ENSG00000131389	SLC6A6	protein_coding	0.70	1.52E-05	4.83E-04
ENSG00000092377	TBL1Y	protein_coding	-1.53	1.55E-05	4.88E-04
ENSG00000153006	SREK1IP1	protein_coding	-0.86	1.55E-05	4.88E-04
ENSG00000223501	VPS52	protein_coding	0.57	1.55E-05	4.88E-04
ENSG00000145681	HAPLN1	protein_coding	-1.18	1.56E-05	4.89E-04
ENSG00000176438	SYNE3	protein_coding	0.78	1.62E-05	5.07E-04
ENSG00000183401	CCDC159	protein_coding	1.15	1.64E-05	5.12E-04
ENSG00000153487	ING1	protein_coding	-0.83	1.67E-05	5.20E-04
ENSG00000133639	BTG1	protein_coding	0.72	1.67E-05	5.21E-04
ENSG00000091409	ITGA6	protein_coding	-0.89	1.68E-05	5.21E-04
ENSG00000133872	SARAF	protein_coding	1.00	1.71E-05	5.31E-04
ENSG00000256043	CTSO	protein_coding	-1.38	1.73E-05	5.34E-04
ENSG00000154736	ADAMTS5	protein_coding	1.60	1.73E-05	5.34E-04
ENSG00000166436	TRIM66	protein_coding	0.70	1.79E-05	5.51E-04
ENSG00000160710	ADAR	protein_coding	0.79	1.84E-05	5.63E-04
ENSG00000121691	CAT	protein_coding	0.67	1.85E-05	5.66E-04
ENSG00000064309	CDON	protein_coding	0.74	1.90E-05	5.79E-04
ENSG00000120334	CENPL	protein_coding	-0.67	1.92E-05	5.85E-04
ENSG00000079257	LXN	protein_coding	1.11	1.94E-05	5.88E-04
ENSG00000149308	NPAT	protein_coding	-0.64	1.97E-05	5.97E-04
ENSG00000137962	ARHGAP29	protein_coding	-0.89	1.98E-05	5.99E-04
ENSG00000139734	DIAPH3	protein_coding	-0.60	1.98E-05	5.99E-04
ENSG00000053254	FOXN3	protein_coding	-0.61	2.00E-05	6.03E-04
ENSG00000166750	SLFN5	protein_coding	0.65	2.04E-05	6.14E-04
ENSG00000163347	CLDN1	protein_coding	-1.14	2.08E-05	6.22E-04
ENSG00000187134	AKR1C1	protein_coding	1.33	2.14E-05	6.41E-04
ENSG00000196781	TLE1	protein_coding	0.88	2.16E-05	6.45E-04
ENSG00000139219	COL2A1	protein_coding	-0.87	2.17E-05	6.46E-04
ENSG00000197329	PELI1	protein_coding	-0.81	2.21E-05	6.58E-04
ENSG00000143248	RGS5	protein_coding	1.18	2.27E-05	6.75E-04
ENSG00000121579	NAA50	protein_coding	-0.58	2.34E-05	6.94E-04
ENSG00000105173	CCNE1	protein_coding	-0.73	2.35E-05	6.95E-04
ENSG00000115806	GORASP2	protein_coding	-0.61	2.35E-05	6.95E-04
ENSG00000116983	HPCAL4	protein_coding	-1.23	2.49E-05	7.33E-04
ENSG00000197020	ZNF100	protein_coding	-0.86	2.60E-05	7.64E-04
ENSG00000148606	POLR3A	protein_coding	-0.50	2.61E-05	7.65E-04
ENSG00000176208	ATAD5	protein_coding	-0.71	2.62E-05	7.67E-04
ENSG00000120784	ZFP30	protein_coding	-0.65	2.64E-05	7.71E-04
ENSG00000102547	CAB39L	protein_coding	-0.88	2.66E-05	7.77E-04
ENSG00000124120	TTPAL	protein_coding	-0.56	2.68E-05	7.79E-04
ENSG00000133789	SWAP70	protein_coding	-0.56	2.76E-05	8.01E-04
ENSG00000072736	NFATC3	protein_coding	-0.59	2.81E-05	8.16E-04
ENSG00000090889	KIF4A	protein_coding	-0.63	2.87E-05	8.29E-04
ENSG00000166387	PPFIBP2	protein_coding	-0.69	2.88E-05	8.31E-04
ENSG00000085840	ORC1	protein_coding	-0.86	2.90E-05	8.35E-04
ENSG00000171316	CHD7	protein_coding	-0.71	2.95E-05	8.48E-04
ENSG00000156463	SH3RF2	protein_coding	-0.80	2.98E-05	8.54E-04
ENSG00000198492	YTHDF2	protein_coding	0.62	2.98E-05	8.54E-04
ENSG00000125266	EFNB2	protein_coding	-0.83	3.05E-05	8.73E-04
ENSG00000196189	SEMA4A	protein_coding	1.31	3.08E-05	8.79E-04
ENSG00000165097	KDM1B	protein_coding	0.60	3.17E-05	9.04E-04
ENSG00000176046	NUPR1	protein_coding	1.03	3.18E-05	9.04E-04
ENSG00000137273	FOXF2	protein_coding	0.83	3.20E-05	9.10E-04
ENSG00000176049	JAKMIP2	protein_coding	1.02	3.23E-05	9.15E-04
ENSG00000112893	MAN2A1	protein_coding	-0.92	3.24E-05	9.16E-04
ENSG00000120875	DUSP4	protein_coding	-0.63	3.25E-05	9.16E-04
ENSG00000197256	KANK2	protein_coding	0.89	3.28E-05	9.23E-04
ENSG00000169136	ATF5	protein_coding	0.71	3.35E-05	9.42E-04
ENSG00000172888	ZNF621	protein_coding	-0.72	3.36E-05	9.44E-04
ENSG00000145604	SKP2	protein_coding	-0.62	3.42E-05	9.58E-04

ENSG00000174371	EXO1	protein_coding	-0.60	3.43E-05	9.58E-04
ENSG00000125148	MT2A	protein_coding	1.58	3.43E-05	9.59E-04
ENSG00000166292	TMEM100	protein_coding	-0.73	3.47E-05	9.68E-04
ENSG00000164318	EGFLAM	protein_coding	-0.67	3.48E-05	9.69E-04
ENSG00000131149	GSE1	protein_coding	0.50	3.49E-05	9.70E-04
ENSG00000115486	GGCX	protein_coding	-0.50	3.50E-05	9.70E-04
ENSG00000110422	HIPK3	protein_coding	0.52	3.51E-05	9.72E-04
ENSG00000140534	TICRR	protein_coding	-0.63	3.52E-05	9.73E-04
ENSG00000189184	PCDH18	protein_coding	0.77	3.53E-05	9.75E-04
ENSG00000144554	FANCD2	protein_coding	-0.50	3.56E-05	9.81E-04
ENSG00000181027	FKRP	protein_coding	1.18	3.78E-05	1.04E-03
ENSG00000186834	HEXIM1	protein_coding	0.63	3.83E-05	1.05E-03
ENSG00000173926	3-Mar	protein_coding	-1.10	3.87E-05	1.06E-03
ENSG00000112964	GHR	protein_coding	-0.84	3.88E-05	1.06E-03
ENSG00000144847	IGSF11	protein_coding	-1.42	3.92E-05	1.07E-03
ENSG00000198380	GFPT1	protein_coding	-0.60	3.92E-05	1.07E-03
ENSG00000135312	HTR1B	protein_coding	1.52	3.93E-05	1.07E-03
ENSG00000133302	SLF1	protein_coding	-0.61	3.98E-05	1.08E-03
ENSG00000108187	PBLD	protein_coding	1.01	4.04E-05	1.09E-03
ENSG00000144827	ABHD10	protein_coding	-0.68	4.09E-05	1.11E-03
ENSG00000084112	SSH1	protein_coding	0.55	4.11E-05	1.11E-03
ENSG00000093009	CDC45	protein_coding	-0.63	4.26E-05	1.15E-03
ENSG00000183111	ARHGEF37	protein_coding	0.83	4.28E-05	1.15E-03
ENSG00000101104	PABPC1L	protein_coding	0.62	4.32E-05	1.16E-03
ENSG00000178662	CSRNP3	protein_coding	0.72	4.32E-05	1.16E-03
ENSG00000081320	STK17B	protein_coding	-0.78	4.35E-05	1.16E-03
ENSG00000151491	EPS8	protein_coding	-0.71	4.35E-05	1.16E-03
ENSG00000147874	HAUS6	protein_coding	-0.53	4.51E-05	1.20E-03
ENSG00000168453	HR	protein_coding	-1.75	4.53E-05	1.20E-03
ENSG00000111679	PTPN6	protein_coding	0.96	4.55E-05	1.21E-03
ENSG00000187715	KBTBD12	protein_coding	-0.65	4.61E-05	1.22E-03
ENSG00000011426	ANLN	protein_coding	-0.60	4.76E-05	1.26E-03
ENSG00000075089	ACTR6	protein_coding	0.98	4.78E-05	1.26E-03
ENSG00000173918	C1QTNF1	protein_coding	1.09	4.77E-05	1.26E-03
ENSG00000167996	FTH1	protein_coding	0.95	4.81E-05	1.26E-03
ENSG00000139514	SLC7A1	protein_coding	-0.49	4.90E-05	1.29E-03
ENSG00000040199	PHLPP2	protein_coding	-0.88	4.94E-05	1.29E-03
ENSG00000140030	GPR65	protein_coding	-1.24	4.96E-05	1.29E-03
ENSG00000029534	ANK1	protein_coding	0.73	4.98E-05	1.30E-03
ENSG00000129116	PALLD	protein_coding	-0.79	5.07E-05	1.32E-03
ENSG00000197442	MAP3K5	protein_coding	-0.74	5.25E-05	1.36E-03
ENSG00000122694	GLIPR2	protein_coding	1.19	5.29E-05	1.37E-03
ENSG00000113805	CNTN3	protein_coding	-0.86	5.32E-05	1.38E-03
ENSG00000148943	LIN7C	protein_coding	-0.88	5.38E-05	1.39E-03
ENSG00000139625	MAP3K12	protein_coding	1.12	5.44E-05	1.40E-03
ENSG00000106615	RHEB	protein_coding	-0.71	5.51E-05	1.42E-03
ENSG00000163818	LZTFL1	protein_coding	-0.70	5.54E-05	1.42E-03
ENSG00000118407	FILIP1	protein_coding	1.47	5.60E-05	1.43E-03
ENSG00000138606	SHF	protein_coding	-1.02	5.72E-05	1.46E-03
ENSG00000188211	NCR3LG1	protein_coding	-0.82	5.73E-05	1.46E-03
ENSG00000151320	AKAP6	protein_coding	0.59	5.90E-05	1.50E-03
ENSG00000170145	SIK2	protein_coding	0.51	5.98E-05	1.52E-03
ENSG00000120693	SMAD9	protein_coding	-0.68	6.01E-05	1.53E-03
ENSG00000046604	DSG2	protein_coding	-0.76	6.06E-05	1.54E-03
ENSG00000100503	NIN	protein_coding	0.59	6.09E-05	1.54E-03
ENSG00000181467	RAP2B	protein_coding	-0.64	6.11E-05	1.54E-03
ENSG00000163584	RPL22L1	protein_coding	-0.75	6.17E-05	1.56E-03
ENSG00000103489	XYLT1	protein_coding	-0.73	6.20E-05	1.56E-03
ENSG00000143494	VASH2	protein_coding	-1.02	6.25E-05	1.57E-03
ENSG00000114270	COL7A1	protein_coding	1.35	6.28E-05	1.57E-03
ENSG00000172201	ID4	protein_coding	-1.04	6.27E-05	1.57E-03
ENSG00000174442	ZWILCH	protein_coding	-0.83	6.51E-05	1.63E-03
ENSG00000136048	DRAM1	protein_coding	0.89	6.55E-05	1.63E-03
ENSG00000137177	KIF13A	protein_coding	0.56	6.57E-05	1.63E-03
ENSG00000239779	WBP1	protein_coding	0.93	6.59E-05	1.64E-03

ENSG00000178726	THBD	protein_coding	-1.04	6.63E-05	1.64E-03
ENSG00000127863	TNFRSF19	protein_coding	-1.09	6.71E-05	1.66E-03
ENSG00000119280	C1orf198	protein_coding	-0.86	6.75E-05	1.67E-03
ENSG00000176714	CCDC121	protein_coding	-0.88	6.81E-05	1.68E-03
ENSG00000186806	VSIG10L	protein_coding	0.78	6.97E-05	1.72E-03
ENSG00000158402	CDC25C	protein_coding	-0.77	7.04E-05	1.73E-03
ENSG00000152749	GPR180	protein_coding	-0.74	7.06E-05	1.74E-03
ENSG00000101746	NOL4	protein_coding	-1.29	7.09E-05	1.74E-03
ENSG00000172927	MYEOV	protein_coding	-1.53	7.11E-05	1.74E-03
ENSG00000094975	SUCO	protein_coding	-0.58	7.23E-05	1.77E-03
ENSG00000078725	BRINP1	protein_coding	-0.97	7.31E-05	1.78E-03
ENSG00000151632	AKR1C2	protein_coding	1.24	7.31E-05	1.78E-03
ENSG00000156218	ADAMTSL3	protein_coding	-0.58	7.40E-05	1.80E-03
ENSG00000074695	LMAN1	protein_coding	-0.61	7.41E-05	1.80E-03
ENSG00000023839	ABCC2	protein_coding	0.76	7.54E-05	1.83E-03
ENSG00000183196	CHST6	protein_coding	-0.77	7.54E-05	1.83E-03
ENSG00000196247	ZNF107	protein_coding	-0.55	7.55E-05	1.83E-03
ENSG00000136352	NKX2-1	protein_coding	1.48	7.64E-05	1.85E-03
ENSG00000187601	MAGEH1	protein_coding	-0.93	7.73E-05	1.86E-03
ENSG00000148677	ANKRD1	protein_coding	-1.15	7.77E-05	1.87E-03
ENSG00000006530	AGK	protein_coding	-0.47	7.85E-05	1.89E-03
ENSG00000156042	CFAP70	protein_coding	0.95	7.87E-05	1.89E-03
ENSG00000153714	LURAP1L	protein_coding	0.68	8.44E-05	2.02E-03
ENSG00000163453	IGFBP7	protein_coding	0.52	8.45E-05	2.02E-03
ENSG00000108823	SGCA	protein_coding	1.50	8.58E-05	2.04E-03
ENSG00000173207	CKS1B	protein_coding	-0.60	8.57E-05	2.04E-03
ENSG00000186205	1-Mar	protein_coding	0.90	8.58E-05	2.04E-03
ENSG00000138639	ARHGAP24	protein_coding	0.72	8.73E-05	2.07E-03
ENSG00000136982	DSCC1	protein_coding	-0.84	8.79E-05	2.08E-03
ENSG00000153214	TMEM87B	protein_coding	0.83	8.90E-05	2.10E-03
ENSG00000138674	SEC31A	protein_coding	-0.43	8.97E-05	2.11E-03
ENSG00000159147	DONSON	protein_coding	-0.76	9.04E-05	2.13E-03
ENSG00000124145	SDC4	protein_coding	-0.82	9.27E-05	2.17E-03
ENSG00000126785	RHOJ	protein_coding	-2.02	9.26E-05	2.17E-03
ENSG00000164109	MAD2L1	protein_coding	-0.61	9.27E-05	2.17E-03
ENSG00000188691	OR56A5	protein_coding	-2.51	9.38E-05	2.19E-03
ENSG00000135365	PHF21A	protein_coding	0.52	9.41E-05	2.19E-03
ENSG00000011566	MAP4K3	protein_coding	0.57	9.67E-05	2.25E-03
ENSG00000114455	HHLA2	protein_coding	-1.40	9.68E-05	2.25E-03
ENSG00000075826	SEC31B	protein_coding	0.95	9.70E-05	2.25E-03
ENSG00000089847	ANKRD24	protein_coding	1.13	9.79E-05	2.26E-03
ENSG00000113263	ITK	protein_coding	-0.59	9.79E-05	2.26E-03
ENSG00000203760	CENPW	protein_coding	-0.60	9.83E-05	2.27E-03
ENSG00000011677	GABRA3	protein_coding	1.07	9.93E-05	2.29E-03
ENSG00000161395	PGAP3	protein_coding	1.19	1.00E-04	2.30E-03
ENSG00000109805	NCAPG	protein_coding	-0.65	1.01E-04	2.32E-03
ENSG00000145882	PCYOX1L	protein_coding	1.01	1.02E-04	2.33E-03
ENSG00000185052	SLC24A3	protein_coding	-0.91	1.03E-04	2.36E-03
ENSG00000105929	ATP6V0A4	protein_coding	-1.31	1.04E-04	2.38E-03
ENSG00000170385	SLC30A1	protein_coding	-1.07	1.05E-04	2.39E-03
ENSG00000087263	OGFOD1	protein_coding	-0.53	1.06E-04	2.43E-03
ENSG00000154102	C16orf74	protein_coding	1.18	1.07E-04	2.43E-03
ENSG00000166130	IKBIP	protein_coding	-0.69	1.07E-04	2.43E-03
ENSG00000172243	CLEC7A	protein_coding	2.22	1.09E-04	2.47E-03
ENSG00000183741	CBX6	protein_coding	0.77	1.09E-04	2.47E-03
ENSG00000130940	CASZ1	protein_coding	-0.78	1.09E-04	2.48E-03
ENSG00000128245	YWHAH	protein_coding	-0.60	1.12E-04	2.53E-03
ENSG00000178966	RMI1	protein_coding	-0.64	1.12E-04	2.53E-03
ENSG00000073910	FRY	protein_coding	-0.88	1.13E-04	2.55E-03
ENSG00000185559	DLK1	protein_coding	1.04	1.14E-04	2.56E-03
ENSG00000164125	FAM198B	protein_coding	-0.78	1.15E-04	2.58E-03
ENSG00000179889	PDXDC1	protein_coding	-0.46	1.15E-04	2.58E-03
ENSG00000163781	TOPBP1	protein_coding	-0.50	1.16E-04	2.60E-03
ENSG00000118193	KIF14	protein_coding	-0.59	1.17E-04	2.62E-03
ENSG00000070087	PFN2	protein_coding	-0.74	1.17E-04	2.62E-03

ENSG00000138646	HERC5	protein_coding	-0.78	1.19E-04	2.65E-03
ENSG00000120756	PLS1	protein_coding	-1.09	1.20E-04	2.68E-03
ENSG00000100380	ST13	protein_coding	-0.53	1.21E-04	2.68E-03
ENSG00000116833	NR5A2	protein_coding	-1.19	1.21E-04	2.70E-03
ENSG00000231925	TAPBP	protein_coding	0.55	1.22E-04	2.72E-03
ENSG00000054598	FOXC1	protein_coding	0.66	1.23E-04	2.73E-03
ENSG00000184371	CSF1	protein_coding	0.57	1.23E-04	2.73E-03
ENSG00000255690	TRIL	protein_coding	-1.08	1.25E-04	2.76E-03
ENSG00000086848	ALG9	protein_coding	-1.13	1.26E-04	2.77E-03
ENSG00000134531	EMP1	protein_coding	-0.54	1.26E-04	2.77E-03
ENSG00000150977	RILPL2	protein_coding	0.68	1.28E-04	2.81E-03
ENSG00000165304	MELK	protein_coding	-0.65	1.30E-04	2.85E-03
ENSG00000106034	CPED1	protein_coding	-0.58	1.31E-04	2.87E-03
ENSG00000184845	DRD1	protein_coding	-1.66	1.32E-04	2.88E-03
ENSG00000198826	ARHGAP11	protein_coding	-0.66	1.32E-04	2.88E-03
ENSG00000178028	DMAP1	protein_coding	0.58	1.32E-04	2.88E-03
ENSG00000164715	LMTK2	protein_coding	0.51	1.33E-04	2.88E-03
ENSG00000176907	C8orf4	protein_coding	1.09	1.33E-04	2.88E-03
ENSG00000084636	COL16A1	protein_coding	1.06	1.33E-04	2.89E-03
ENSG00000197712	FAM114A1	protein_coding	-0.44	1.39E-04	3.01E-03
ENSG00000148344	PTGES	protein_coding	0.98	1.43E-04	3.09E-03
ENSG00000163535	SGO2	protein_coding	-0.62	1.43E-04	3.09E-03
ENSG00000184205	TSPYL2	protein_coding	0.80	1.44E-04	3.10E-03
ENSG00000143631	FLG	protein_coding	-2.44	1.45E-04	3.11E-03
ENSG00000133138	TBC1D8B	protein_coding	-0.75	1.49E-04	3.20E-03
ENSG00000131470	PSMC3IP	protein_coding	-0.55	1.52E-04	3.25E-03
ENSG00000151893	CACUL1	protein_coding	-0.83	1.52E-04	3.25E-03
ENSG00000112742	TTK	protein_coding	-0.59	1.53E-04	3.27E-03
ENSG00000196782	MAML3	protein_coding	0.70	1.54E-04	3.28E-03
ENSG00000122203	KIAA1191	protein_coding	0.55	1.58E-04	3.35E-03
ENSG00000179431	FJX1	protein_coding	1.13	1.58E-04	3.35E-03
ENSG00000186318	BACE1	protein_coding	-0.65	1.58E-04	3.36E-03
ENSG00000011465	DCN	protein_coding	0.52	1.59E-04	3.36E-03
ENSG00000166483	WEE1	protein_coding	-0.54	1.60E-04	3.37E-03
ENSG00000205002	AARD	protein_coding	1.01	1.60E-04	3.37E-03
ENSG00000096060	FKBP5	protein_coding	0.54	1.62E-04	3.41E-03
ENSG00000100749	VRK1	protein_coding	-0.57	1.61E-04	3.41E-03
ENSG00000135407	AVIL	protein_coding	1.32	1.63E-04	3.44E-03
ENSG00000177570	SAMD12	protein_coding	0.59	1.65E-04	3.46E-03
ENSG00000059588	TARBP1	protein_coding	-0.65	1.66E-04	3.47E-03
ENSG00000130023	ERMARD	protein_coding	0.51	1.66E-04	3.47E-03
ENSG00000197774	EME2	protein_coding	0.93	1.68E-04	3.53E-03
ENSG00000198223	CSF2RA	protein_coding	-0.77	1.70E-04	3.54E-03
ENSG00000138821	SLC39A8	protein_coding	-0.92	1.70E-04	3.55E-03
ENSG00000155792	DEPTOR	protein_coding	0.86	1.70E-04	3.55E-03
ENSG00000162623	TYW3	protein_coding	0.74	1.71E-04	3.55E-03
ENSG00000204869	IGFL4	protein_coding	1.47	1.71E-04	3.55E-03
ENSG00000171223	JUNB	protein_coding	1.34	1.72E-04	3.56E-03
ENSG00000042832	TG	protein_coding	1.30	1.74E-04	3.60E-03
ENSG00000196735	HLA-DQA1	protein_coding	-1.79	1.74E-04	3.61E-03
ENSG00000167637	ZNF283	protein_coding	-0.53	1.75E-04	3.62E-03
ENSG00000018510	AGPS	protein_coding	-0.90	1.76E-04	3.63E-03
ENSG00000168010	ATG16L2	protein_coding	0.69	1.76E-04	3.63E-03
ENSG00000163931	TKT	protein_coding	0.88	1.76E-04	3.64E-03
ENSG00000082196	C1QTNF3	protein_coding	-0.89	1.77E-04	3.65E-03
ENSG00000135749	PCNX2	protein_coding	0.64	1.78E-04	3.67E-03
ENSG00000154760	SLFN13	protein_coding	-0.63	1.80E-04	3.69E-03
ENSG00000141258	SGSM2	protein_coding	0.86	1.81E-04	3.71E-03
ENSG00000214114	MYCBP	protein_coding	-1.12	1.83E-04	3.75E-03
ENSG00000165732	DDX21	protein_coding	-0.47	1.84E-04	3.76E-03
ENSG00000106080	FKBP14	protein_coding	-0.83	1.85E-04	3.77E-03
ENSG00000138814	PPP3CA	protein_coding	-0.71	1.87E-04	3.82E-03
ENSG00000169908	TM4SF1	protein_coding	-0.54	1.88E-04	3.83E-03
ENSG00000117069	ST6GALNA4	protein_coding	-0.97	1.88E-04	3.83E-03
ENSG00000176472	ZNF575	protein_coding	1.94	1.90E-04	3.87E-03



ENSG00000095139	ARCN1	protein_coding	-0.45	1.91E-04	3.87E-03
ENSG00000101955	SRPX	protein_coding	-0.52	1.91E-04	3.88E-03
ENSG00000188175	HEPACAM2	protein_coding	1.87	1.98E-04	4.00E-03
ENSG00000127526	SLC35E1	protein_coding	-0.68	1.99E-04	4.01E-03
ENSG00000196305	IARS	protein_coding	-0.45	1.99E-04	4.02E-03
ENSG00000135535	CD164	protein_coding	-0.94	2.01E-04	4.04E-03
ENSG00000140743	CDR2	protein_coding	-0.67	2.01E-04	4.04E-03
ENSG00000205208	C4orf46	protein_coding	-0.69	2.01E-04	4.04E-03
ENSG00000197977	ELOVL2	protein_coding	-0.78	2.04E-04	4.09E-03
ENSG00000052802	MSMO1	protein_coding	-1.30	2.05E-04	4.11E-03
ENSG00000133943	C14orf159	protein_coding	0.62	2.05E-04	4.12E-03
ENSG00000144504	ANKMY1	protein_coding	0.65	2.07E-04	4.13E-03
ENSG00000183283	DAZAP2	protein_coding	0.72	2.07E-04	4.13E-03
ENSG00000067225	PKM	protein_coding	0.56	2.13E-04	4.24E-03
ENSG00000077522	ACTN2	protein_coding	-0.78	2.13E-04	4.25E-03
ENSG00000052795	FNIP2	protein_coding	-0.46	2.13E-04	4.25E-03
ENSG00000114850	SSR3	protein_coding	-0.84	2.17E-04	4.31E-03
ENSG00000131203	IDO1	protein_coding	1.25	2.19E-04	4.35E-03
ENSG00000147655	RSPO2	protein_coding	1.13	2.21E-04	4.38E-03
ENSG00000198056	PRIM1	protein_coding	-0.62	2.21E-04	4.38E-03
ENSG00000092295	TGM1	protein_coding	-1.09	2.25E-04	4.42E-03
ENSG00000100100	PIK3IP1	protein_coding	1.69	2.24E-04	4.42E-03
ENSG00000101846	STS	protein_coding	-0.64	2.24E-04	4.42E-03
ENSG00000110911	SLC11A2	protein_coding	-0.60	2.25E-04	4.42E-03
ENSG00000137103	TMEM8B	protein_coding	1.04	2.25E-04	4.42E-03
ENSG00000152270	PDE3B	protein_coding	-0.67	2.25E-04	4.43E-03
ENSG00000102098	SCML2	protein_coding	-0.63	2.29E-04	4.48E-03
ENSG00000102057	KCND1	protein_coding	1.70	2.33E-04	4.57E-03
ENSG00000157168	NRG1	protein_coding	0.45	2.37E-04	4.63E-03
ENSG00000184635	ZNF93	protein_coding	-0.52	2.37E-04	4.63E-03
ENSG00000148229	POLE3	protein_coding	-0.44	2.38E-04	4.65E-03
ENSG00000248713	AC083902.2	protein_coding	1.99	2.41E-04	4.68E-03
ENSG00000145451	GLRA3	protein_coding	-1.32	2.41E-04	4.69E-03
ENSG00000162378	ZYG11B	protein_coding	0.61	2.44E-04	4.74E-03
ENSG00000204525	HLA-C	protein_coding	0.47	2.44E-04	4.74E-03
ENSG00000055813	CCDC85A	protein_coding	1.11	2.46E-04	4.76E-03
ENSG00000205268	PDE7A	protein_coding	-0.57	2.48E-04	4.80E-03
ENSG00000059573	ALDH18A1	protein_coding	-0.49	2.51E-04	4.84E-03
ENSG00000157600	TMEM164	protein_coding	-0.46	2.51E-04	4.84E-03
ENSG00000196950	SLC39A10	protein_coding	-0.55	2.53E-04	4.87E-03
ENSG00000002549	LAP3	protein_coding	-0.46	2.54E-04	4.87E-03
ENSG00000188312	CENPP	protein_coding	-0.53	2.53E-04	4.87E-03
ENSG00000124370	MCEE	protein_coding	-0.94	2.54E-04	4.88E-03
ENSG00000156313	RPGR	protein_coding	-0.61	2.55E-04	4.89E-03
ENSG00000164244	PRRC1	protein_coding	-0.57	2.59E-04	4.94E-03
ENSG00000164292	RHOBTB3	protein_coding	-0.82	2.58E-04	4.94E-03
ENSG00000169679	BUB1	protein_coding	-0.44	2.59E-04	4.94E-03
ENSG00000134193	REG4	protein_coding	-1.71	2.62E-04	4.98E-03
ENSG00000155657	TTN	protein_coding	-0.73	2.61E-04	4.98E-03
ENSG00000002587	HS3ST1	protein_coding	-1.51	2.63E-04	4.99E-03
ENSG00000169914	OTUD3	protein_coding	-0.58	2.63E-04	5.00E-03
ENSG00000111252	SH2B3	protein_coding	-0.59	2.64E-04	5.00E-03
ENSG00000099860	GADD45B	protein_coding	0.94	2.67E-04	5.06E-03
ENSG00000145358	DDIT4L	protein_coding	-1.26	2.70E-04	5.10E-03
ENSG00000162004	CCDC78	protein_coding	1.56	2.71E-04	5.11E-03
ENSG00000198730	CTR9	protein_coding	-0.60	2.72E-04	5.13E-03
ENSG00000140937	CDH11	protein_coding	-0.78	2.73E-04	5.14E-03
ENSG00000049883	PTCD2	protein_coding	0.48	2.74E-04	5.16E-03
ENSG00000198911	SREBF2	protein_coding	-0.62	2.75E-04	5.17E-03
ENSG00000247315	ZCCHC3	protein_coding	-0.62	2.81E-04	5.28E-03
ENSG00000026559	KCNG1	protein_coding	-0.67	2.82E-04	5.29E-03
ENSG00000099875	MKNK2	protein_coding	1.02	2.84E-04	5.31E-03
ENSG00000071242	RPS6KA2	protein_coding	0.72	2.86E-04	5.34E-03
ENSG00000164048	ZNF589	protein_coding	0.57	2.87E-04	5.35E-03
ENSG00000112195	TREML2	protein_coding	-1.83	2.87E-04	5.35E-03

ENSG00000109674	NEIL3	protein_coding	-0.65	2.89E-04	5.38E-03
ENSG00000142408	CACNG8	protein_coding	0.90	2.91E-04	5.40E-03
ENSG00000197147	LRRRC8B	protein_coding	-0.61	2.91E-04	5.40E-03
ENSG00000128607	KLHDC10	protein_coding	-0.81	2.96E-04	5.50E-03
ENSG00000119899	SLC17A5	protein_coding	-0.63	2.99E-04	5.55E-03
ENSG00000134987	WDR36	protein_coding	-0.72	3.00E-04	5.55E-03
ENSG00000176371	ZSCAN2	protein_coding	0.75	3.00E-04	5.55E-03
ENSG00000116830	TTF2	protein_coding	-0.43	3.01E-04	5.56E-03
ENSG00000133103	COG6	protein_coding	-0.74	3.02E-04	5.57E-03
ENSG00000063438	AHRR	protein_coding	0.90	3.03E-04	5.58E-03
ENSG00000206190	ATP10A	protein_coding	-0.47	3.06E-04	5.64E-03
ENSG00000093217	XYLB	protein_coding	-0.59	3.08E-04	5.66E-03
ENSG00000153157	SYCP2L	protein_coding	-0.68	3.08E-04	5.66E-03
ENSG00000144355	DLX1	protein_coding	0.53	3.13E-04	5.73E-03
ENSG00000108821	COL1A1	protein_coding	0.69	3.13E-04	5.74E-03
ENSG00000143452	HORMAD1	protein_coding	1.87	3.14E-04	5.74E-03
ENSG00000076067	RBMS2	protein_coding	-0.49	3.14E-04	5.75E-03
ENSG00000137824	RMDN3	protein_coding	-0.47	3.17E-04	5.78E-03
ENSG00000156970	BUB1B	protein_coding	-0.48	3.17E-04	5.78E-03
ENSG00000186395	KRT10	protein_coding	-0.79	3.17E-04	5.78E-03
ENSG00000100592	DAAM1	protein_coding	-0.79	3.20E-04	5.82E-03
ENSG00000140939	NOL3	protein_coding	0.92	3.21E-04	5.82E-03
ENSG00000144476	ACKR3	protein_coding	1.33	3.21E-04	5.82E-03
ENSG00000112029	FBXO5	protein_coding	-0.58	3.22E-04	5.84E-03
ENSG00000125648	SLC25A23	protein_coding	0.81	3.23E-04	5.84E-03
ENSG00000061492	WNT8A	protein_coding	-1.13	3.28E-04	5.93E-03
ENSG00000229474	PATL2	protein_coding	0.77	3.29E-04	5.95E-03
ENSG00000154229	PRKCA	protein_coding	0.42	3.34E-04	6.03E-03
ENSG00000125378	BMP4	protein_coding	1.13	3.34E-04	6.03E-03
ENSG00000214510	SPINK13	protein_coding	-0.75	3.41E-04	6.13E-03
ENSG00000153933	DGKE	protein_coding	-0.67	3.43E-04	6.17E-03
ENSG00000113845	TIMMDC1	protein_coding	0.83	3.45E-04	6.19E-03
ENSG00000197771	MCMBP	protein_coding	-0.44	3.52E-04	6.31E-03
ENSG00000165480	SKA3	protein_coding	-0.67	3.53E-04	6.32E-03
ENSG00000185015	CA13	protein_coding	-0.94	3.53E-04	6.32E-03
ENSG00000126803	HSPA2	protein_coding	1.14	3.55E-04	6.35E-03
ENSG00000198824	CHAMP1	protein_coding	0.48	3.57E-04	6.38E-03
ENSG00000136854	STXBP1	protein_coding	0.49	3.62E-04	6.45E-03
ENSG00000140678	ITGAX	protein_coding	1.54	3.64E-04	6.48E-03
ENSG00000108395	TRIM37	protein_coding	0.45	3.71E-04	6.59E-03
ENSG00000196839	ADA	protein_coding	0.74	3.71E-04	6.59E-03
ENSG00000119922	IFIT2	protein_coding	-0.70	3.73E-04	6.60E-03
ENSG00000149591	TAGLN	protein_coding	1.22	3.74E-04	6.61E-03
ENSG00000269343	ZNF587B	protein_coding	-0.48	3.74E-04	6.61E-03
ENSG00000078687	TNRC6C	protein_coding	-0.52	3.74E-04	6.61E-03
ENSG00000140465	CYP1A1	protein_coding	1.30	3.77E-04	6.66E-03
ENSG00000108819	PPP1R9B	protein_coding	0.70	3.80E-04	6.69E-03
ENSG00000204991	SPIRE2	protein_coding	0.72	3.80E-04	6.69E-03
ENSG00000138685	FGF2	protein_coding	0.74	3.84E-04	6.73E-03
ENSG00000144406	UNC80	protein_coding	-1.02	3.84E-04	6.73E-03
ENSG00000147862	NFIB	protein_coding	0.39	3.84E-04	6.73E-03
ENSG00000168038	ULK4	protein_coding	-0.57	3.84E-04	6.73E-03
ENSG00000171848	RRM2	protein_coding	-0.56	3.84E-04	6.73E-03
ENSG00000147912	FBXO10	protein_coding	0.81	3.85E-04	6.74E-03
ENSG00000169764	UGP2	protein_coding	-0.67	3.87E-04	6.76E-03
ENSG00000113916	BCL6	protein_coding	0.61	3.88E-04	6.78E-03
ENSG00000002834	LASP1	protein_coding	0.57	3.90E-04	6.80E-03
ENSG00000138311	ZNF365	protein_coding	0.82	3.91E-04	6.81E-03
ENSG00000054392	HHAT	protein_coding	0.81	3.92E-04	6.81E-03
ENSG00000148153	INIP	protein_coding	-0.70	3.93E-04	6.83E-03
ENSG00000160753	RUSC1	protein_coding	-0.58	3.98E-04	6.92E-03
ENSG00000186777	ZNF732	protein_coding	-0.68	4.03E-04	6.98E-03
ENSG00000229676	ZNF492	protein_coding	-0.87	4.04E-04	7.00E-03
ENSG00000137760	ALKBH8	protein_coding	-0.87	4.05E-04	7.00E-03
ENSG00000042781	USH2A	protein_coding	0.56	4.06E-04	7.01E-03

ENSG00000146223	RPL7L1	protein_coding	-0.46	4.06E-04	7.02E-03
ENSG00000164794	KCNV1	protein_coding	1.52	4.07E-04	7.02E-03
ENSG00000115159	GPD2	protein_coding	-0.55	4.10E-04	7.06E-03
ENSG00000159231	CBR3	protein_coding	0.90	4.10E-04	7.06E-03
ENSG00000144677	CTDSPL	protein_coding	-0.72	4.11E-04	7.07E-03
ENSG00000185112	FAM43A	protein_coding	1.24	4.14E-04	7.12E-03
ENSG00000051382	PIK3CB	protein_coding	-0.61	4.16E-04	7.14E-03
ENSG00000136531	SCN2A	protein_coding	0.92	4.19E-04	7.17E-03
ENSG00000172007	RAB33B	protein_coding	-0.70	4.18E-04	7.17E-03
ENSG00000160188	RSPH1	protein_coding	1.54	4.22E-04	7.22E-03
ENSG00000104626	ERI1	protein_coding	-0.62	4.27E-04	7.29E-03
ENSG00000186298	PPP1CC	protein_coding	1.00	4.28E-04	7.30E-03
ENSG00000160685	ZBTB7B	protein_coding	1.00	4.32E-04	7.36E-03
ENSG00000172469	MANEA	protein_coding	-0.65	4.32E-04	7.36E-03
ENSG00000160310	PRMT2	protein_coding	0.43	4.33E-04	7.37E-03
ENSG00000125864	BFSP1	protein_coding	0.51	4.34E-04	7.37E-03
ENSG00000148541	FAM13C	protein_coding	1.86	4.36E-04	7.39E-03
ENSG00000158169	FANCC	protein_coding	-0.56	4.36E-04	7.39E-03
ENSG00000076351	SLC46A1	protein_coding	-0.65	4.40E-04	7.45E-03
ENSG00000167964	RAB26	protein_coding	1.53	4.41E-04	7.45E-03
ENSG00000090989	EXOC1	protein_coding	-0.55	4.43E-04	7.48E-03
ENSG00000119862	LGALSL	protein_coding	-0.55	4.44E-04	7.49E-03
ENSG00000275023	MLLT6	protein_coding	0.64	4.44E-04	7.49E-03
ENSG00000277639	AC007906.2	protein_coding	0.83	4.49E-04	7.56E-03
ENSG00000020577	SAMD4A	protein_coding	-0.61	4.52E-04	7.58E-03
ENSG00000112078	KCTD20	protein_coding	-0.44	4.51E-04	7.58E-03
ENSG00000173848	NET1	protein_coding	-0.51	4.52E-04	7.58E-03
ENSG00000163002	NUP35	protein_coding	-0.90	4.57E-04	7.66E-03
ENSG00000124575	HIST1H1D	protein_coding	-0.91	4.61E-04	7.72E-03
ENSG00000092964	DPYSL2	protein_coding	-0.48	4.63E-04	7.74E-03
ENSG00000137673	MMP7	protein_coding	-0.78	4.65E-04	7.74E-03
ENSG00000148053	NTRK2	protein_coding	1.22	4.65E-04	7.74E-03
ENSG00000159055	MIS18A	protein_coding	-0.53	4.65E-04	7.74E-03
ENSG00000180998	GPR137C	protein_coding	-1.25	4.65E-04	7.74E-03
ENSG00000118785	SPP1	protein_coding	-0.47	4.70E-04	7.80E-03
ENSG00000166855	CLPX	protein_coding	0.51	4.70E-04	7.80E-03
ENSG00000139644	TMBIM6	protein_coding	0.50	4.73E-04	7.84E-03
ENSG00000008086	CDKL5	protein_coding	-0.66	4.75E-04	7.86E-03
ENSG00000132294	EFR3A	protein_coding	-0.71	4.75E-04	7.87E-03
ENSG00000008405	CRY1	protein_coding	-0.57	4.77E-04	7.88E-03
ENSG00000156650	KAT6B	protein_coding	0.55	4.78E-04	7.88E-03
ENSG00000108515	ENO3	protein_coding	0.66	4.79E-04	7.90E-03
ENSG00000119523	ALG2	protein_coding	-0.57	4.85E-04	7.97E-03
ENSG00000123643	SLC36A1	protein_coding	-0.59	4.85E-04	7.97E-03
ENSG00000183508	FAM46C	protein_coding	0.74	4.85E-04	7.97E-03
ENSG00000121957	GPSM2	protein_coding	-0.55	4.88E-04	8.01E-03
ENSG00000086289	EPDR1	protein_coding	-0.52	4.89E-04	8.02E-03
ENSG00000125827	TMX4	protein_coding	-0.50	4.90E-04	8.03E-03
ENSG00000125848	FLRT3	protein_coding	-1.43	4.92E-04	8.04E-03
ENSG00000173614	NMNAT1	protein_coding	0.88	4.95E-04	8.08E-03
ENSG00000185989	RASA3	protein_coding	0.60	4.95E-04	8.08E-03
ENSG00000170421	KRT8	protein_coding	-1.13	4.99E-04	8.13E-03
ENSG00000132432	SEC61G	protein_coding	-0.52	5.03E-04	8.19E-03
ENSG00000157224	CLDN12	protein_coding	-0.92	5.03E-04	8.19E-03
ENSG00000168404	MLKL	protein_coding	-0.61	5.04E-04	8.19E-03
ENSG00000067955	CBFB	protein_coding	-0.52	5.08E-04	8.24E-03
ENSG00000113282	CLINT1	protein_coding	-0.46	5.17E-04	8.38E-03
ENSG00000196376	SLC35F1	protein_coding	-1.64	5.19E-04	8.40E-03
ENSG00000177565	TBL1XR1	protein_coding	-0.68	5.21E-04	8.42E-03
ENSG00000106692	FKTN	protein_coding	-0.52	5.25E-04	8.47E-03
ENSG00000113273	ARSB	protein_coding	0.44	5.33E-04	8.59E-03
ENSG00000139626	ITGB7	protein_coding	1.06	5.34E-04	8.60E-03
ENSG00000149054	ZNF215	protein_coding	-0.79	5.35E-04	8.61E-03
ENSG00000110844	PRPF40B	protein_coding	0.77	5.36E-04	8.62E-03
ENSG00000120868	APAF1	protein_coding	-0.50	5.38E-04	8.64E-03

ENSG00000138660	AP1AR	protein_coding	0.68	5.39E-04	8.64E-03
ENSG00000151746	BICD1	protein_coding	0.56	5.39E-04	8.64E-03
ENSG00000246922	UBAP1L	protein_coding	0.71	5.46E-04	8.73E-03
ENSG00000115163	CENPA	protein_coding	-0.66	5.61E-04	8.96E-03
ENSG00000205133	TRIQQ	protein_coding	-0.58	5.61E-04	8.96E-03
ENSG00000197557	TTC30A	protein_coding	-0.83	5.62E-04	8.96E-03
ENSG00000157483	MYO1E	protein_coding	-0.55	5.76E-04	9.16E-03
ENSG00000162772	ATF3	protein_coding	0.59	5.80E-04	9.20E-03
ENSG00000182118	FAM89A	protein_coding	-1.07	5.80E-04	9.20E-03
ENSG00000155846	PPARGC1B	protein_coding	0.68	5.82E-04	9.22E-03
ENSG00000182287	AP1S2	protein_coding	-0.67	5.83E-04	9.23E-03
ENSG00000101310	SEC23B	protein_coding	-0.38	5.92E-04	9.37E-03
ENSG00000274641	HIST1H2BO	protein_coding	-0.84	5.97E-04	9.44E-03
ENSG00000165501	LRR1	protein_coding	-0.64	6.02E-04	9.50E-03
ENSG00000196865	NHLRC2	protein_coding	-0.70	6.06E-04	9.56E-03
ENSG00000066279	ASPM	protein_coding	-0.45	6.15E-04	9.68E-03
ENSG00000077514	POLD3	protein_coding	-0.54	6.24E-04	9.79E-03
ENSG00000155918	RAET1L	protein_coding	-1.50	6.24E-04	9.79E-03
ENSG00000176407	KCMF1	protein_coding	-0.58	6.28E-04	9.84E-03
ENSG00000115318	LOXL3	protein_coding	0.76	6.31E-04	9.87E-03
ENSG00000155592	ZKSCAN2	protein_coding	-0.54	6.35E-04	9.91E-03
ENSG00000204186	ZDBF2	protein_coding	-0.59	6.34E-04	9.91E-03
ENSG00000258461	AC012651.1	protein_coding	1.68	6.37E-04	9.94E-03
ENSG00000169093	ASMTL	protein_coding	0.86	6.38E-04	9.95E-03
ENSG00000118922	KLF12	protein_coding	-0.65	6.46E-04	1.00E-02
ENSG00000041982	TNC	protein_coding	0.90	6.47E-04	1.01E-02
ENSG00000101624	CEP76	protein_coding	-0.63	6.49E-04	1.01E-02
ENSG00000075945	KIFAP3	protein_coding	0.42	6.51E-04	1.01E-02
ENSG00000138756	BMP2K	protein_coding	0.49	6.51E-04	1.01E-02
ENSG00000119946	CNNM1	protein_coding	0.71	6.55E-04	1.01E-02
ENSG00000240891	PLCXD2	protein_coding	-0.79	6.58E-04	1.02E-02
ENSG00000139291	TMEM19	protein_coding	0.79	6.60E-04	1.02E-02
ENSG00000188186	LAMTOR4	protein_coding	0.75	6.60E-04	1.02E-02
ENSG00000214189	ZNF788	protein_coding	-0.67	6.63E-04	1.02E-02
ENSG00000142599	RERE	protein_coding	0.53	6.65E-04	1.02E-02
ENSG00000139178	C1RL	protein_coding	0.92	6.66E-04	1.02E-02
ENSG00000135643	KCNMB4	protein_coding	-1.74	6.68E-04	1.03E-02
ENSG00000134308	YWHAQ	protein_coding	-0.50	6.72E-04	1.03E-02
ENSG00000163508	EOMES	protein_coding	1.21	6.71E-04	1.03E-02
ENSG00000166833	NAV2	protein_coding	0.89	6.71E-04	1.03E-02
ENSG00000168610	STAT3	protein_coding	0.43	6.72E-04	1.03E-02
ENSG00000164930	FZD6	protein_coding	0.53	6.82E-04	1.04E-02
ENSG00000078304	PPP2R5C	protein_coding	-0.61	6.84E-04	1.04E-02
ENSG00000111801	BTN3A3	protein_coding	0.55	6.86E-04	1.05E-02
ENSG00000117115	PADI2	protein_coding	1.99	6.88E-04	1.05E-02
ENSG00000105516	DBP	protein_coding	1.09	6.91E-04	1.05E-02
ENSG00000154258	ABCA9	protein_coding	1.14	6.92E-04	1.05E-02
ENSG00000137269	LRRC1	protein_coding	-0.69	7.01E-04	1.06E-02
ENSG00000114948	ADAM23	protein_coding	-0.52	7.04E-04	1.07E-02
ENSG00000168291	PDHB	protein_coding	-0.74	7.04E-04	1.07E-02
ENSG00000172687	ZNF738	protein_coding	-0.71	7.05E-04	1.07E-02
ENSG00000004139	SARM1	protein_coding	1.22	7.18E-04	1.09E-02
ENSG00000117143	UAP1	protein_coding	-0.49	7.18E-04	1.09E-02
ENSG00000100625	SIX4	protein_coding	-0.45	7.22E-04	1.09E-02
ENSG00000058404	CAMK2B	protein_coding	-0.70	7.26E-04	1.10E-02
ENSG00000089685	BIRC5	protein_coding	-0.59	7.32E-04	1.10E-02
ENSG00000176225	RTTN	protein_coding	-0.51	7.33E-04	1.10E-02
ENSG00000196296	ATP2A1	protein_coding	0.92	7.33E-04	1.10E-02
ENSG00000065989	PDE4A	protein_coding	0.95	7.37E-04	1.11E-02
ENSG00000143815	LBR	protein_coding	-0.60	7.37E-04	1.11E-02
ENSG00000158615	PPP1R15B	protein_coding	-0.50	7.38E-04	1.11E-02
ENSG00000006607	FARP2	protein_coding	-0.46	7.46E-04	1.12E-02
ENSG00000137203	TFAP2A	protein_coding	0.45	7.46E-04	1.12E-02
ENSG00000167325	RRM1	protein_coding	-0.46	7.52E-04	1.12E-02
ENSG00000182628	SKA2	protein_coding	-0.69	7.55E-04	1.13E-02

ENSG00000052723	SIKE1	protein_coding	-0.87	7.61E-04	1.13E-02
ENSG00000130956	HABP4	protein_coding	0.51	7.60E-04	1.13E-02
ENSG00000138101	DTNB	protein_coding	0.47	7.65E-04	1.14E-02
ENSG00000136816	TOR1B	protein_coding	0.54	7.67E-04	1.14E-02
ENSG00000136960	ENPP2	protein_coding	-0.60	7.67E-04	1.14E-02
ENSG00000114790	ARHGEF26	protein_coding	-0.80	7.70E-04	1.14E-02
ENSG00000139266	9-Mar	protein_coding	0.79	7.73E-04	1.15E-02
ENSG00000152527	PLEKHH2	protein_coding	-0.67	7.75E-04	1.15E-02
ENSG00000129028	THAP10	protein_coding	-0.70	7.76E-04	1.15E-02
ENSG00000196290	NIF3L1	protein_coding	-0.57	7.83E-04	1.16E-02
ENSG00000147082	CCNB3	protein_coding	0.63	7.86E-04	1.16E-02
ENSG00000158125	XDH	protein_coding	-0.80	7.90E-04	1.17E-02
ENSG00000187951	ARHGAP11	protein_coding	-0.46	7.90E-04	1.17E-02
ENSG00000198157	HMG5	protein_coding	0.81	7.94E-04	1.17E-02
ENSG00000130653	PNPLA7	protein_coding	0.96	7.96E-04	1.17E-02
ENSG00000166557	TMED3	protein_coding	-0.53	7.99E-04	1.18E-02
ENSG00000100003	SEC14L2	protein_coding	0.71	8.02E-04	1.18E-02
ENSG00000177879	AP3S1	protein_coding	-0.54	8.02E-04	1.18E-02
ENSG00000186871	ERCC6L	protein_coding	-0.52	8.01E-04	1.18E-02
ENSG00000104112	SCG3	protein_coding	-1.06	8.04E-04	1.18E-02
ENSG00000198948	MFAP3L	protein_coding	0.59	8.09E-04	1.18E-02
ENSG00000180113	TDRD6	protein_coding	0.75	8.15E-04	1.19E-02
ENSG00000128829	EIF2AK4	protein_coding	0.45	8.16E-04	1.19E-02
ENSG00000051180	RAD51	protein_coding	-0.81	8.27E-04	1.21E-02
ENSG00000114841	DNAH1	protein_coding	0.91	8.27E-04	1.21E-02
ENSG00000173166	RAPH1	protein_coding	-0.68	8.35E-04	1.22E-02
ENSG00000204516	MICB	protein_coding	-0.81	8.36E-04	1.22E-02
ENSG00000143409	MINDY1	protein_coding	0.56	8.40E-04	1.22E-02
ENSG00000164270	HTR4	protein_coding	-0.71	8.49E-04	1.23E-02
ENSG00000189157	FAM47E	protein_coding	1.37	8.56E-04	1.24E-02
ENSG00000143344	RGL1	protein_coding	0.56	8.60E-04	1.25E-02
ENSG00000180611	MB21D2	protein_coding	-0.79	8.65E-04	1.25E-02
ENSG00000119900	OGFRL1	protein_coding	0.53	8.67E-04	1.25E-02
ENSG00000117791	2-Mar	protein_coding	0.48	8.73E-04	1.26E-02
ENSG00000197872	FAM49A	protein_coding	-1.23	8.72E-04	1.26E-02
ENSG00000081985	IL12RB2	protein_coding	-1.80	8.76E-04	1.26E-02
ENSG00000180979	LRRRC57	protein_coding	-0.51	8.82E-04	1.27E-02
ENSG00000113361	CDH6	protein_coding	-1.54	8.83E-04	1.27E-02
ENSG00000100345	MYH9	protein_coding	0.70	8.86E-04	1.28E-02
ENSG00000214941	ZSWIM7	protein_coding	0.58	8.89E-04	1.28E-02
ENSG00000132481	TRIM47	protein_coding	0.76	8.96E-04	1.29E-02
ENSG00000253159	PCDHGA12	protein_coding	0.65	9.15E-04	1.31E-02
ENSG00000101752	MIB1	protein_coding	0.54	9.18E-04	1.31E-02
ENSG00000134058	CDK7	protein_coding	-0.43	9.18E-04	1.31E-02
ENSG00000140988	RPS2	protein_coding	0.92	9.19E-04	1.31E-02
ENSG00000153044	CENPH	protein_coding	-0.50	9.18E-04	1.31E-02
ENSG00000131153	GINS2	protein_coding	-0.74	9.20E-04	1.31E-02
ENSG00000113658	SMAD5	protein_coding	-0.61	9.28E-04	1.32E-02
ENSG00000006468	ETV1	protein_coding	-0.84	9.32E-04	1.32E-02
ENSG00000138658	ZGRF1	protein_coding	-0.50	9.31E-04	1.32E-02
ENSG00000159658	EFCAB14	protein_coding	-0.39	9.42E-04	1.34E-02
ENSG00000166979	EVA1C	protein_coding	0.57	9.65E-04	1.37E-02
ENSG00000169607	CKAP2L	protein_coding	-0.57	9.74E-04	1.38E-02
ENSG00000198650	TAT	protein_coding	1.84	9.75E-04	1.38E-02
ENSG00000131669	NINJ1	protein_coding	0.66	9.86E-04	1.39E-02
ENSG00000100372	SLC25A17	protein_coding	-0.53	9.89E-04	1.40E-02
ENSG00000102081	FMR1	protein_coding	0.43	9.95E-04	1.40E-02
ENSG00000162687	KCNT2	protein_coding	0.79	9.94E-04	1.40E-02
ENSG00000138942	RNF185	protein_coding	-0.58	9.98E-04	1.41E-02
ENSG00000120915	EPHX2	protein_coding	0.74	1.00E-03	1.41E-02
ENSG00000135678	CPM	protein_coding	-0.68	1.01E-03	1.41E-02
ENSG00000148120	C9orf3	protein_coding	0.71	1.01E-03	1.41E-02
ENSG00000166920	C15orf48	protein_coding	0.63	1.00E-03	1.41E-02
ENSG00000204116	CHIC1	protein_coding	0.91	1.01E-03	1.41E-02
ENSG00000153885	KCTD15	protein_coding	0.75	1.01E-03	1.41E-02

ENSG00000120837	NFYB	protein_coding	-0.47	1.04E-03	1.45E-02
ENSG00000079691	CARMIL1	protein_coding	-0.56	1.04E-03	1.46E-02
ENSG00000146072	TNFRSF21	protein_coding	0.60	1.04E-03	1.46E-02
ENSG00000130948	HSD17B3	protein_coding	1.11	1.05E-03	1.47E-02
ENSG00000135211	TMEM60	protein_coding	-0.86	1.07E-03	1.49E-02
ENSG00000148483	TMEM236	protein_coding	1.63	1.07E-03	1.49E-02
ENSG00000174607	UGT8	protein_coding	-0.81	1.07E-03	1.49E-02
ENSG00000135828	RNASEL	protein_coding	0.49	1.08E-03	1.50E-02
ENSG00000173163	COMMD1	protein_coding	0.66	1.09E-03	1.51E-02
ENSG00000134242	PTPN22	protein_coding	0.79	1.09E-03	1.51E-02
ENSG00000175497	DPP10	protein_coding	-1.07	1.09E-03	1.52E-02
ENSG00000180694	TMEM64	protein_coding	-0.81	1.10E-03	1.52E-02
ENSG00000144791	LIMD1	protein_coding	0.52	1.10E-03	1.53E-02
ENSG00000183826	BTBD9	protein_coding	-0.45	1.11E-03	1.53E-02
ENSG00000035499	DEPDC1B	protein_coding	-0.55	1.11E-03	1.53E-02
ENSG00000068912	ERLEC1	protein_coding	-0.59	1.11E-03	1.54E-02
ENSG00000204217	BMPR2	protein_coding	-0.69	1.14E-03	1.57E-02
ENSG00000151693	ASAP2	protein_coding	-0.44	1.15E-03	1.58E-02
ENSG00000196338	NLGN3	protein_coding	0.91	1.16E-03	1.59E-02
ENSG00000173175	ADCY5	protein_coding	-1.85	1.17E-03	1.60E-02
ENSG00000136158	SPRY2	protein_coding	-0.64	1.17E-03	1.61E-02
ENSG00000177694	NAALADL2	protein_coding	0.71	1.17E-03	1.61E-02
ENSG00000226887	ERVMER34	protein_coding	-1.24	1.17E-03	1.61E-02
ENSG00000089057	SLC23A2	protein_coding	0.61	1.18E-03	1.61E-02
ENSG00000169118	CSNK1G1	protein_coding	-0.47	1.18E-03	1.61E-02
ENSG00000186017	ZNF566	protein_coding	-0.47	1.18E-03	1.61E-02
ENSG00000214753	HNRNPUL2	protein_coding	-0.50	1.18E-03	1.61E-02
ENSG00000085662	AKR1B1	protein_coding	0.86	1.19E-03	1.62E-02
ENSG00000162607	USP1	protein_coding	-0.60	1.19E-03	1.62E-02
ENSG00000075975	MKRN2	protein_coding	-0.51	1.20E-03	1.63E-02
ENSG00000091622	PITPNM3	protein_coding	-1.05	1.20E-03	1.63E-02
ENSG00000179598	PLD6	protein_coding	-0.58	1.20E-03	1.63E-02
ENSG00000006634	DBF4	protein_coding	-0.43	1.21E-03	1.64E-02
ENSG00000168944	CEP120	protein_coding	-0.49	1.21E-03	1.64E-02
ENSG00000250510	GPR162	protein_coding	1.12	1.22E-03	1.65E-02
ENSG00000122863	CHST3	protein_coding	-0.48	1.23E-03	1.66E-02
ENSG00000107262	BAG1	protein_coding	0.52	1.23E-03	1.67E-02
ENSG00000106546	AHR	protein_coding	0.81	1.25E-03	1.69E-02
ENSG00000177548	RABEP2	protein_coding	1.04	1.25E-03	1.69E-02
ENSG00000186638	KIF24	protein_coding	-0.59	1.25E-03	1.69E-02
ENSG00000136950	ARPC5L	protein_coding	-0.48	1.26E-03	1.69E-02
ENSG00000080200	CRYBG3	protein_coding	-0.42	1.26E-03	1.69E-02
ENSG00000186417	GLDN	protein_coding	0.72	1.27E-03	1.71E-02
ENSG00000182670	TTC3	protein_coding	0.51	1.27E-03	1.71E-02
ENSG00000137720	C11orf1	protein_coding	0.85	1.28E-03	1.71E-02
ENSG00000099822	HCN2	protein_coding	0.72	1.28E-03	1.72E-02
ENSG00000164305	CASP3	protein_coding	-0.61	1.28E-03	1.72E-02
ENSG00000169122	FAM110B	protein_coding	0.51	1.30E-03	1.74E-02
ENSG00000063587	ZNF275	protein_coding	-0.49	1.30E-03	1.74E-02
ENSG00000089195	TRMT6	protein_coding	-0.51	1.31E-03	1.75E-02
ENSG00000170113	NIPA1	protein_coding	-0.57	1.31E-03	1.75E-02
ENSG00000103248	MTHFSD	protein_coding	0.56	1.31E-03	1.75E-02
ENSG00000092820	EZR	protein_coding	-0.63	1.32E-03	1.76E-02
ENSG00000147231	CXorf57	protein_coding	-0.63	1.33E-03	1.77E-02
ENSG00000110492	MDK	protein_coding	1.50	1.34E-03	1.78E-02
ENSG00000136383	ALPK3	protein_coding	1.07	1.34E-03	1.78E-02
ENSG00000277258	PCGF2	protein_coding	0.86	1.34E-03	1.78E-02
ENSG00000254087	LYN	protein_coding	-0.47	1.35E-03	1.78E-02
ENSG00000141441	GAREM1	protein_coding	-0.48	1.35E-03	1.79E-02
ENSG00000106483	SFRP4	protein_coding	1.26	1.36E-03	1.80E-02
ENSG00000156802	ATAD2	protein_coding	-0.40	1.37E-03	1.81E-02
ENSG00000145817	YIPF5	protein_coding	-0.79	1.38E-03	1.82E-02
ENSG00000112531	QKI	protein_coding	-0.44	1.39E-03	1.83E-02
ENSG00000107554	DNMBP	protein_coding	0.41	1.40E-03	1.84E-02
ENSG00000124588	NQO2	protein_coding	0.42	1.40E-03	1.84E-02

ENSG00000175745	NR2F1	protein_coding	0.81	1.40E-03	1.84E-02
ENSG00000145147	SLIT2	protein_coding	-0.91	1.41E-03	1.85E-02
ENSG00000120137	PANK3	protein_coding	-0.68	1.41E-03	1.85E-02
ENSG00000110906	KCTD10	protein_coding	0.46	1.42E-03	1.86E-02
ENSG00000103042	SLC38A7	protein_coding	0.76	1.43E-03	1.86E-02
ENSG00000184014	DENND5A	protein_coding	-0.46	1.43E-03	1.87E-02
ENSG00000196208	GREB1	protein_coding	1.07	1.43E-03	1.87E-02
ENSG00000120328	PCDHB12	protein_coding	1.37	1.44E-03	1.87E-02
ENSG00000127083	OMD	protein_coding	1.75	1.44E-03	1.88E-02
ENSG00000155380	SLC16A1	protein_coding	-0.49	1.45E-03	1.88E-02
ENSG00000197119	SLC25A29	protein_coding	0.62	1.46E-03	1.89E-02
ENSG00000122359	ANXA11	protein_coding	0.48	1.46E-03	1.89E-02
ENSG00000111057	KRT18	protein_coding	-0.75	1.47E-03	1.90E-02
ENSG00000123091	RNF11	protein_coding	-0.66	1.47E-03	1.91E-02
ENSG00000118495	PLAGL1	protein_coding	-0.72	1.47E-03	1.91E-02
ENSG00000198961	PJA2	protein_coding	-0.51	1.48E-03	1.92E-02
ENSG00000086598	TMED2	protein_coding	-0.55	1.50E-03	1.93E-02
ENSG00000187094	CCK	protein_coding	1.24	1.50E-03	1.93E-02
ENSG00000130349	C6orf203	protein_coding	0.49	1.51E-03	1.95E-02
ENSG0000010270	STARD3NL	protein_coding	-0.51	1.52E-03	1.95E-02
ENSG00000130783	CCDC62	protein_coding	1.21	1.52E-03	1.95E-02
ENSG00000159871	LYPD5	protein_coding	-1.39	1.52E-03	1.95E-02
ENSG00000075391	RASAL2	protein_coding	-0.46	1.52E-03	1.96E-02
ENSG00000116747	TROVE2	protein_coding	-0.74	1.52E-03	1.96E-02
ENSG00000135298	ADGRB3	protein_coding	-0.81	1.52E-03	1.96E-02
ENSG00000175376	EIF1AD	protein_coding	-0.40	1.53E-03	1.96E-02
ENSG00000102978	POLR2C	protein_coding	-0.42	1.53E-03	1.97E-02
ENSG00000115840	SLC25A12	protein_coding	0.44	1.54E-03	1.97E-02
ENSG00000115325	DOK1	protein_coding	0.86	1.56E-03	2.00E-02
ENSG00000106261	ZKSCAN1	protein_coding	0.41	1.56E-03	2.00E-02
ENSG00000160094	ZNF362	protein_coding	0.74	1.57E-03	2.01E-02
ENSG00000162104	ADCY9	protein_coding	0.45	1.58E-03	2.01E-02
ENSG00000173451	THAP2	protein_coding	-0.84	1.58E-03	2.01E-02
ENSG00000169231	THBS3	protein_coding	1.14	1.58E-03	2.01E-02
ENSG00000168530	MYL1	protein_coding	-0.89	1.58E-03	2.02E-02
ENSG00000115946	PNO1	protein_coding	-0.48	1.59E-03	2.02E-02
ENSG00000109814	UGDH	protein_coding	-0.58	1.59E-03	2.02E-02
ENSG00000153048	CARHSP1	protein_coding	0.73	1.60E-03	2.03E-02
ENSG00000198087	CD2AP	protein_coding	-0.58	1.61E-03	2.04E-02
ENSG00000196776	CD47	protein_coding	-0.56	1.61E-03	2.04E-02
ENSG00000101447	FAM83D	protein_coding	-0.44	1.62E-03	2.04E-02
ENSG00000158715	SLC45A3	protein_coding	-1.08	1.62E-03	2.04E-02
ENSG00000188610	FAM72B	protein_coding	-0.72	1.62E-03	2.05E-02
ENSG00000174013	FBXO45	protein_coding	-0.59	1.63E-03	2.06E-02
ENSG00000136444	RSAD1	protein_coding	0.61	1.64E-03	2.06E-02
ENSG00000164684	ZNF704	protein_coding	0.68	1.65E-03	2.08E-02
ENSG00000181444	ZNF467	protein_coding	1.03	1.66E-03	2.09E-02
ENSG00000168411	RFWD3	protein_coding	-0.41	1.67E-03	2.09E-02
ENSG00000198743	SLC5A3	protein_coding	1.07	1.67E-03	2.09E-02
ENSG0000014138	POLA2	protein_coding	-0.55	1.67E-03	2.10E-02
ENSG00000205336	ADGRG1	protein_coding	1.05	1.68E-03	2.10E-02
ENSG00000121064	SCPEP1	protein_coding	0.48	1.68E-03	2.10E-02
ENSG00000143502	SUSD4	protein_coding	1.27	1.68E-03	2.10E-02
ENSG00000163110	PDLIM5	protein_coding	-0.75	1.70E-03	2.12E-02
ENSG00000081803	CADPS2	protein_coding	-0.52	1.71E-03	2.13E-02
ENSG00000175322	ZNF519	protein_coding	-0.52	1.71E-03	2.13E-02
ENSG00000146143	PRIM2	protein_coding	-0.46	1.72E-03	2.14E-02
ENSG00000196159	FAT4	protein_coding	0.52	1.72E-03	2.14E-02
ENSG00000122512	PMS2	protein_coding	0.49	1.72E-03	2.14E-02
ENSG00000151729	SLC25A4	protein_coding	-0.52	1.73E-03	2.15E-02
ENSG00000204304	PBX2	protein_coding	0.44	1.73E-03	2.15E-02
ENSG00000143333	RGS16	protein_coding	-0.84	1.74E-03	2.15E-02
ENSG00000196233	LCOR	protein_coding	0.43	1.75E-03	2.16E-02
ENSG00000181007	ZFP82	protein_coding	-1.11	1.76E-03	2.18E-02
ENSG00000067066	SP100	protein_coding	0.44	1.78E-03	2.21E-02

ENSG00000185404	SP140L	protein_coding	0.44	1.80E-03	2.22E-02
ENSG00000123485	HJURP	protein_coding	-0.47	1.81E-03	2.22E-02
ENSG00000188783	PRELP	protein_coding	-0.80	1.80E-03	2.22E-02
ENSG00000111581	NUP107	protein_coding	-0.38	1.84E-03	2.26E-02
ENSG00000158296	SLC13A3	protein_coding	0.74	1.84E-03	2.27E-02
ENSG00000165661	QSOX2	protein_coding	-0.52	1.86E-03	2.28E-02
ENSG00000198856	OSTC	protein_coding	-0.82	1.86E-03	2.28E-02
ENSG00000049449	RCN1	protein_coding	-0.70	1.87E-03	2.29E-02
ENSG00000108799	EZH1	protein_coding	0.62	1.87E-03	2.29E-02
ENSG00000151151	IPMK	protein_coding	-0.82	1.88E-03	2.30E-02
ENSG00000151117	TMEM86A	protein_coding	0.71	1.90E-03	2.32E-02
ENSG00000170965	PLAC1	protein_coding	-0.92	1.90E-03	2.32E-02
ENSG00000111445	RFC5	protein_coding	-0.51	1.91E-03	2.33E-02
ENSG00000150394	CDH8	protein_coding	-0.55	1.92E-03	2.33E-02
ENSG00000124641	MED20	protein_coding	-0.56	1.92E-03	2.34E-02
ENSG00000167767	KRT80	protein_coding	-0.72	1.93E-03	2.35E-02
ENSG00000126524	SBDS	protein_coding	-0.50	1.94E-03	2.35E-02
ENSG00000186314	PRELID2	protein_coding	-0.49	1.94E-03	2.36E-02
ENSG00000111653	ING4	protein_coding	0.65	1.95E-03	2.37E-02
ENSG00000124541	RRP36	protein_coding	0.40	1.95E-03	2.37E-02
ENSG00000159217	IGF2BP1	protein_coding	-0.34	1.95E-03	2.37E-02
ENSG00000119787	ATL2	protein_coding	-0.56	1.96E-03	2.37E-02
ENSG00000197608	ZNF841	protein_coding	-0.40	1.97E-03	2.38E-02
ENSG00000237441	RGL2	protein_coding	1.11	1.96E-03	2.38E-02
ENSG00000099204	ABLIM1	protein_coding	-0.41	1.99E-03	2.40E-02
ENSG00000271601	LIX1L	protein_coding	0.58	1.99E-03	2.40E-02
ENSG00000182934	SRPRA	protein_coding	-0.37	2.00E-03	2.41E-02
ENSG00000064042	LIMCH1	protein_coding	-0.49	2.02E-03	2.43E-02
ENSG00000155749	ALS2CR12	protein_coding	0.94	2.03E-03	2.44E-02
ENSG00000108559	NUP88	protein_coding	-0.43	2.05E-03	2.46E-02
ENSG00000109452	INPP4B	protein_coding	-0.40	2.06E-03	2.46E-02
ENSG00000081923	ATP8B1	protein_coding	0.52	2.07E-03	2.48E-02
ENSG00000197312	DDI2	protein_coding	-0.39	2.08E-03	2.49E-02
ENSG00000167193	CRK	protein_coding	0.47	2.08E-03	2.49E-02
ENSG00000100564	PIGH	protein_coding	-0.81	2.11E-03	2.52E-02
ENSG00000110852	CLEC2B	protein_coding	0.42	2.12E-03	2.52E-02
ENSG00000135913	USP37	protein_coding	-0.55	2.13E-03	2.54E-02
ENSG00000163577	EIF5A2	protein_coding	-0.47	2.14E-03	2.55E-02
ENSG00000104432	IL7	protein_coding	-1.37	2.16E-03	2.57E-02
ENSG00000130449	ZSWIM6	protein_coding	-0.59	2.17E-03	2.58E-02
ENSG00000128284	APOL3	protein_coding	0.74	2.18E-03	2.59E-02
ENSG00000005108	THSD7A	protein_coding	0.46	2.18E-03	2.59E-02
ENSG00000158092	NCK1	protein_coding	-0.59	2.19E-03	2.60E-02
ENSG00000180667	YOD1	protein_coding	-0.61	2.20E-03	2.60E-02
ENSG00000086717	PPEF1	protein_coding	-0.61	2.21E-03	2.62E-02
ENSG00000128731	HERC2	protein_coding	-0.33	2.23E-03	2.64E-02
ENSG00000165997	ARL5B	protein_coding	-0.73	2.24E-03	2.65E-02
ENSG00000197930	ERO1A	protein_coding	-0.61	2.26E-03	2.67E-02
ENSG00000108094	CUL2	protein_coding	-0.61	2.27E-03	2.67E-02
ENSG00000040731	CDH10	protein_coding	-0.94	2.27E-03	2.68E-02
ENSG00000105926	MPP6	protein_coding	-0.54	2.27E-03	2.68E-02
ENSG00000165807	PPP1R36	protein_coding	1.00	2.28E-03	2.68E-02
ENSG00000183765	CHEK2	protein_coding	-0.43	2.29E-03	2.69E-02
ENSG00000006459	KDM7A	protein_coding	-0.47	2.31E-03	2.71E-02
ENSG00000205726	ITSN1	protein_coding	-0.43	2.31E-03	2.71E-02
ENSG00000100577	GSTZ1	protein_coding	0.58	2.33E-03	2.73E-02
ENSG00000167588	GPD1	protein_coding	0.99	2.33E-03	2.73E-02
ENSG00000043143	JADE2	protein_coding	0.65	2.34E-03	2.73E-02
ENSG00000100023	PPIL2	protein_coding	0.51	2.34E-03	2.73E-02
ENSG00000065000	AP3D1	protein_coding	0.72	2.34E-03	2.74E-02
ENSG00000103591	AAGAB	protein_coding	0.40	2.34E-03	2.74E-02
ENSG00000156052	GNAQ	protein_coding	-0.59	2.36E-03	2.75E-02
ENSG00000149636	DSN1	protein_coding	-0.56	2.36E-03	2.76E-02
ENSG00000111832	RWDD1	protein_coding	0.44	2.38E-03	2.77E-02
ENSG00000012963	UBR7	protein_coding	-0.52	2.39E-03	2.78E-02



ENSG00000135148	TRAFD1	protein_coding	0.43	2.39E-03	2.78E-02
ENSG00000198786	MT-ND5	protein_coding	0.68	2.39E-03	2.78E-02
ENSG00000198888	MT-ND1	protein_coding	0.48	2.39E-03	2.78E-02
ENSG00000144395	CCDC150	protein_coding	-0.46	2.40E-03	2.78E-02
ENSG00000155897	ADCY8	protein_coding	-1.17	2.40E-03	2.79E-02
ENSG00000166963	MAP1A	protein_coding	0.82	2.41E-03	2.80E-02
ENSG00000085377	PREP	protein_coding	-0.43	2.44E-03	2.83E-02
ENSG00000173599	PC	protein_coding	0.71	2.47E-03	2.85E-02
ENSG00000115758	ODC1	protein_coding	-0.49	2.48E-03	2.86E-02
ENSG00000101557	USP14	protein_coding	-0.71	2.49E-03	2.88E-02
ENSG00000096063	SRPK1	protein_coding	-0.38	2.50E-03	2.88E-02
ENSG00000115539	PDCL3	protein_coding	0.48	2.52E-03	2.90E-02
ENSG00000198719	DLL1	protein_coding	1.68	2.52E-03	2.90E-02
ENSG00000170412	GPRC5C	protein_coding	0.68	2.53E-03	2.91E-02
ENSG00000151748	SAV1	protein_coding	-0.64	2.54E-03	2.92E-02
ENSG00000244694	PTCHD4	protein_coding	0.71	2.54E-03	2.92E-02
ENSG00000205221	VIT	protein_coding	0.65	2.55E-03	2.92E-02
ENSG00000119906	SLF2	protein_coding	-0.43	2.56E-03	2.93E-02
ENSG00000092421	SEMA6A	protein_coding	-0.63	2.56E-03	2.93E-02
ENSG00000087586	AURKA	protein_coding	-0.35	2.60E-03	2.96E-02
ENSG00000134470	IL15RA	protein_coding	0.74	2.60E-03	2.96E-02
ENSG00000169905	TOR1AIP2	protein_coding	0.35	2.60E-03	2.96E-02
ENSG00000197568	HHLA3	protein_coding	0.58	2.61E-03	2.96E-02
ENSG00000197558	SSPO	protein_coding	1.01	2.63E-03	2.98E-02
ENSG00000124766	SOX4	protein_coding	0.53	2.63E-03	2.99E-02
ENSG00000131351	HAUS8	protein_coding	-0.48	2.66E-03	3.01E-02
ENSG00000135299	ANKRD6	protein_coding	-0.54	2.66E-03	3.01E-02
ENSG00000152078	TMEM56	protein_coding	-0.54	2.67E-03	3.02E-02
ENSG00000186472	PCLO	protein_coding	-0.46	2.66E-03	3.02E-02
ENSG00000117650	NEK2	protein_coding	-0.40	2.67E-03	3.02E-02
ENSG00000135185	TMEM243	protein_coding	-0.73	2.69E-03	3.03E-02
ENSG00000155903	RASA2	protein_coding	-0.62	2.69E-03	3.04E-02
ENSG00000078018	MAP2	protein_coding	0.42	2.70E-03	3.04E-02
ENSG00000169252	ADRB2	protein_coding	0.44	2.70E-03	3.05E-02
ENSG00000123405	NFE2	protein_coding	1.35	2.71E-03	3.05E-02
ENSG00000147488	ST18	protein_coding	0.96	2.73E-03	3.07E-02
ENSG00000169446	MMGT1	protein_coding	-0.55	2.77E-03	3.12E-02
ENSG00000179295	PTPN11	protein_coding	-0.35	2.78E-03	3.12E-02
ENSG00000119977	TCTN3	protein_coding	-0.58	2.79E-03	3.13E-02
ENSG00000105991	HOXA1	protein_coding	-0.66	2.80E-03	3.14E-02
ENSG00000104643	MTMR9	protein_coding	-0.60	2.81E-03	3.15E-02
ENSG00000103404	USP31	protein_coding	-0.36	2.82E-03	3.16E-02
ENSG00000112183	RBM24	protein_coding	-1.07	2.83E-03	3.17E-02
ENSG00000186300	ZNF555	protein_coding	0.50	2.83E-03	3.17E-02
ENSG00000188483	IER5L	protein_coding	0.92	2.83E-03	3.17E-02
ENSG00000168300	PCMTD1	protein_coding	0.57	2.84E-03	3.17E-02
ENSG00000116906	GNPAT	protein_coding	-0.38	2.84E-03	3.17E-02
ENSG00000147174	GCNA	protein_coding	0.82	2.86E-03	3.18E-02
ENSG00000189045	ANKDD1B	protein_coding	1.18	2.86E-03	3.19E-02
ENSG00000090975	PITPNM2	protein_coding	0.67	2.89E-03	3.21E-02
ENSG00000153066	TXNDC11	protein_coding	-0.47	2.91E-03	3.23E-02
ENSG00000220205	VAMP2	protein_coding	0.64	2.91E-03	3.23E-02
ENSG00000159167	STC1	protein_coding	0.42	2.92E-03	3.24E-02
ENSG00000138411	HECW2	protein_coding	0.59	2.93E-03	3.25E-02
ENSG00000157111	TMEM171	protein_coding	1.44	2.94E-03	3.26E-02
ENSG00000162927	PUS10	protein_coding	0.73	2.94E-03	3.26E-02
ENSG00000177383	MAGEF1	protein_coding	-0.54	2.96E-03	3.28E-02
ENSG00000137692	DCUN1D5	protein_coding	-0.67	2.98E-03	3.29E-02
ENSG00000163930	BAP1	protein_coding	0.83	2.98E-03	3.30E-02
ENSG00000138326	RPS24	protein_coding	0.37	2.99E-03	3.30E-02
ENSG00000156467	UQCRB	protein_coding	0.46	3.01E-03	3.32E-02
ENSG00000144366	GULP1	protein_coding	0.57	3.05E-03	3.36E-02
ENSG00000121413	ZSCAN18	protein_coding	0.79	3.07E-03	3.38E-02
ENSG00000121621	KIF18A	protein_coding	-0.54	3.10E-03	3.42E-02
ENSG00000137478	FCHSD2	protein_coding	0.42	3.11E-03	3.43E-02

ENSG00000179104	TMTC2	protein_coding	-0.61	3.12E-03	3.43E-02
ENSG00000157456	CCNB2	protein_coding	-0.41	3.13E-03	3.43E-02
ENSG00000242247	ARFGAP3	protein_coding	-0.39	3.14E-03	3.44E-02
ENSG00000173120	KDM2A	protein_coding	-0.33	3.15E-03	3.45E-02
ENSG00000170802	FOXN2	protein_coding	0.44	3.15E-03	3.46E-02
ENSG00000086619	ERO1B	protein_coding	-0.67	3.16E-03	3.46E-02
ENSG00000123612	ACVR1C	protein_coding	-0.84	3.17E-03	3.48E-02
ENSG00000115232	ITGA4	protein_coding	0.75	3.18E-03	3.48E-02
ENSG00000138443	ABI2	protein_coding	0.57	3.18E-03	3.48E-02
ENSG00000170144	HNRNPA3	protein_coding	-0.45	3.18E-03	3.48E-02
ENSG00000172954	LCLAT1	protein_coding	-0.75	3.18E-03	3.48E-02
ENSG00000161010	MRNIP	protein_coding	0.46	3.22E-03	3.51E-02
ENSG00000070718	AP3M2	protein_coding	0.39	3.24E-03	3.52E-02
ENSG00000106688	SLC1A1	protein_coding	-0.66	3.23E-03	3.52E-02
ENSG00000145780	FEM1C	protein_coding	-0.53	3.23E-03	3.52E-02
ENSG00000147454	SLC25A37	protein_coding	-0.41	3.23E-03	3.52E-02
ENSG00000153558	FBXL2	protein_coding	-0.48	3.24E-03	3.52E-02
ENSG00000204764	RANBP17	protein_coding	-0.48	3.24E-03	3.52E-02
ENSG00000078967	UBE2D4	protein_coding	0.42	3.24E-03	3.52E-02
ENSG00000116750	UCHL5	protein_coding	-0.59	3.27E-03	3.53E-02
ENSG00000137752	CASP1	protein_coding	0.97	3.28E-03	3.53E-02
ENSG00000151623	NR3C2	protein_coding	-0.57	3.27E-03	3.53E-02
ENSG00000168710	AHCYL1	protein_coding	0.31	3.26E-03	3.53E-02
ENSG00000172270	BSG	protein_coding	0.77	3.28E-03	3.53E-02
ENSG00000188641	DPYD	protein_coding	0.43	3.27E-03	3.53E-02
ENSG00000196476	C20orf96	protein_coding	0.49	3.28E-03	3.53E-02
ENSG00000166997	CNPY4	protein_coding	0.47	3.29E-03	3.54E-02
ENSG00000069869	NEDD4	protein_coding	-0.47	3.29E-03	3.54E-02
ENSG00000148303	RPL7A	protein_coding	0.72	3.33E-03	3.59E-02
ENSG00000121578	B4GALT4	protein_coding	-0.48	3.34E-03	3.59E-02
ENSG000000085415	SEH1L	protein_coding	-0.38	3.35E-03	3.60E-02
ENSG00000161513	FDXR	protein_coding	1.07	3.35E-03	3.60E-02
ENSG00000186340	THBS2	protein_coding	1.45	3.37E-03	3.62E-02
ENSG00000123374	CDK2	protein_coding	-0.78	3.38E-03	3.62E-02
ENSG00000123240	OPTN	protein_coding	0.44	3.39E-03	3.63E-02
ENSG00000148835	TAF5	protein_coding	-0.71	3.41E-03	3.65E-02
ENSG00000184992	BRI3BP	protein_coding	-0.51	3.42E-03	3.65E-02
ENSG00000231924	PSG1	protein_coding	1.47	3.45E-03	3.69E-02
ENSG00000125843	AP5S1	protein_coding	0.48	3.48E-03	3.71E-02
ENSG00000160712	IL6R	protein_coding	-0.55	3.48E-03	3.71E-02
ENSG00000169255	B3GALNT1	protein_coding	-0.44	3.48E-03	3.71E-02
ENSG00000101158	NELFCD	protein_coding	0.35	3.49E-03	3.72E-02
ENSG00000119231	SENP5	protein_coding	-0.36	3.50E-03	3.72E-02
ENSG00000172167	MTBP	protein_coding	-0.52	3.49E-03	3.72E-02
ENSG00000175175	PPM1E	protein_coding	-0.67	3.49E-03	3.72E-02
ENSG00000204131	NHSL2	protein_coding	0.82	3.50E-03	3.72E-02
ENSG00000184009	ACTG1	protein_coding	0.68	3.51E-03	3.73E-02
ENSG00000102575	ACP5	protein_coding	0.59	3.52E-03	3.74E-02
ENSG00000261582	AL121753.1	protein_coding	1.17	3.54E-03	3.75E-02
ENSG00000131871	SELENOS	protein_coding	-0.41	3.55E-03	3.75E-02
ENSG00000167971	CASKIN1	protein_coding	1.01	3.55E-03	3.75E-02
ENSG00000166439	RNF169	protein_coding	-0.45	3.59E-03	3.78E-02
ENSG00000185046	ANKS1B	protein_coding	0.44	3.62E-03	3.81E-02
ENSG00000145794	MEGF10	protein_coding	-1.14	3.62E-03	3.82E-02
ENSG00000136449	MYCBPAP	protein_coding	1.28	3.64E-03	3.83E-02
ENSG00000163629	PTPN13	protein_coding	0.58	3.65E-03	3.84E-02
ENSG00000143727	ACP1	protein_coding	-0.47	3.66E-03	3.85E-02
ENSG00000122376	FAM35A	protein_coding	0.53	3.68E-03	3.87E-02
ENSG00000168374	ARF4	protein_coding	-0.62	3.68E-03	3.87E-02
ENSG00000132436	FIGNL1	protein_coding	-0.48	3.69E-03	3.88E-02
ENSG00000198954	KIF1BP	protein_coding	-0.53	3.71E-03	3.89E-02
ENSG00000132879	FBXO44	protein_coding	1.21	3.71E-03	3.89E-02
ENSG00000169189	NSMCE1	protein_coding	0.47	3.72E-03	3.89E-02
ENSG00000065029	ZNF76	protein_coding	0.63	3.73E-03	3.90E-02
ENSG00000160007	ARHGAP35	protein_coding	0.32	3.74E-03	3.91E-02

ENSG00000141232	TOB1	protein_coding	0.35	3.75E-03	3.92E-02
ENSG00000113269	RNF130	protein_coding	-0.50	3.79E-03	3.96E-02
ENSG00000072210	ALDH3A2	protein_coding	0.54	3.80E-03	3.96E-02
ENSG00000152457	DCLRE1C	protein_coding	-0.46	3.81E-03	3.97E-02
ENSG00000163462	TRIM46	protein_coding	1.24	3.81E-03	3.97E-02
ENSG00000168214	RBPJ	protein_coding	-0.41	3.81E-03	3.97E-02
ENSG00000082146	STRADB	protein_coding	-0.56	3.82E-03	3.97E-02
ENSG00000154175	ABI3BP	protein_coding	-0.48	3.82E-03	3.98E-02
ENSG00000176244	ACBD7	protein_coding	-0.74	3.84E-03	3.99E-02
ENSG00000144468	RHBDD1	protein_coding	-0.52	3.85E-03	3.99E-02
ENSG00000089902	RCOR1	protein_coding	-0.41	3.86E-03	4.00E-02
ENSG00000158079	PTPDC1	protein_coding	-0.39	3.86E-03	4.00E-02
ENSG00000124260	MAGEA10	protein_coding	-1.05	3.86E-03	4.00E-02
ENSG00000054965	FAM168A	protein_coding	0.42	3.87E-03	4.01E-02
ENSG00000136824	SMC2	protein_coding	-0.37	3.88E-03	4.01E-02
ENSG00000140319	SRP14	protein_coding	0.48	3.88E-03	4.01E-02
ENSG00000156587	UBE2L6	protein_coding	0.66	3.90E-03	4.02E-02
ENSG00000167861	HID1	protein_coding	1.41	3.91E-03	4.04E-02
ENSG00000133321	RARRES3	protein_coding	1.26	3.92E-03	4.04E-02
ENSG00000146376	ARHGAP18	protein_coding	0.69	3.92E-03	4.04E-02
ENSG00000168280	KIF5C	protein_coding	1.04	3.95E-03	4.06E-02
ENSG00000109846	CRYAB	protein_coding	-0.59	3.95E-03	4.06E-02
ENSG00000111911	HINT3	protein_coding	0.85	3.99E-03	4.10E-02
ENSG00000128578	STRIP2	protein_coding	-0.47	4.00E-03	4.11E-02
ENSG00000156709	AIFM1	protein_coding	0.37	4.00E-03	4.11E-02
ENSG00000133460	SLC2A11	protein_coding	1.39	4.00E-03	4.11E-02
ENSG00000119812	FAM98A	protein_coding	-0.45	4.02E-03	4.12E-02
ENSG00000185352	HS6ST3	protein_coding	1.35	4.04E-03	4.14E-02
ENSG00000153094	BCL2L11	protein_coding	0.55	4.04E-03	4.14E-02
ENSG00000135929	CYP27A1	protein_coding	1.16	4.09E-03	4.18E-02
ENSG00000141127	PRPSAP2	protein_coding	0.45	4.11E-03	4.20E-02
ENSG00000090905	TNRC6A	protein_coding	0.39	4.13E-03	4.21E-02
ENSG00000004961	HCCS	protein_coding	-0.62	4.14E-03	4.22E-02
ENSG00000145901	TNIP1	protein_coding	0.64	4.13E-03	4.22E-02
ENSG00000089818	NECAP1	protein_coding	-0.46	4.18E-03	4.26E-02
ENSG00000078269	SYNJ2	protein_coding	-0.44	4.20E-03	4.27E-02
ENSG00000104375	STK3	protein_coding	0.46	4.20E-03	4.27E-02
ENSG00000012817	KDM5D	protein_coding	0.33	4.20E-03	4.27E-02
ENSG00000145919	BOD1	protein_coding	0.44	4.21E-03	4.27E-02
ENSG00000272886	DCP1A	protein_coding	-0.33	4.21E-03	4.27E-02
ENSG00000221995	TIAF1	protein_coding	0.75	4.22E-03	4.28E-02
ENSG00000163623	NKX6-1	protein_coding	-0.73	4.23E-03	4.28E-02
ENSG0000012822	CALCOCO1	protein_coding	0.59	4.24E-03	4.28E-02
ENSG00000090565	RAB11FIP3	protein_coding	0.61	4.23E-03	4.28E-02
ENSG00000122035	RASL11A	protein_coding	1.45	4.24E-03	4.28E-02
ENSG00000160781	PAQR6	protein_coding	1.08	4.24E-03	4.28E-02
ENSG00000159450	TCHH	protein_coding	0.62	4.24E-03	4.28E-02
ENSG00000124788	ATXN1	protein_coding	0.42	4.25E-03	4.28E-02
ENSG00000131773	KHDRBS3	protein_coding	-0.62	4.27E-03	4.30E-02
ENSG00000146776	ATXN7L1	protein_coding	0.52	4.28E-03	4.31E-02
ENSG00000154188	ANGPT1	protein_coding	0.91	4.28E-03	4.31E-02
ENSG00000120129	DUSP1	protein_coding	0.74	4.30E-03	4.32E-02
ENSG00000013503	POLR3B	protein_coding	-0.66	4.31E-03	4.33E-02
ENSG00000127314	RAP1B	protein_coding	-0.51	4.31E-03	4.33E-02
ENSG00000157978	LDLRAP1	protein_coding	-0.47	4.34E-03	4.35E-02
ENSG00000154654	NCAM2	protein_coding	0.63	4.36E-03	4.37E-02
ENSG00000080986	NDC80	protein_coding	-0.44	4.39E-03	4.40E-02
ENSG00000104213	PDGFRL	protein_coding	-0.93	4.40E-03	4.40E-02
ENSG00000180354	MTURN	protein_coding	-0.48	4.42E-03	4.42E-02
ENSG00000105245	NUMBL	protein_coding	0.72	4.43E-03	4.43E-02
ENSG00000100605	ITPK1	protein_coding	1.00	4.45E-03	4.45E-02
ENSG00000135503	ACVR1B	protein_coding	-0.40	4.46E-03	4.45E-02
ENSG00000158966	CACHD1	protein_coding	-0.49	4.46E-03	4.45E-02
ENSG00000122565	CBX3	protein_coding	-0.37	4.49E-03	4.47E-02
ENSG00000089692	LAG3	protein_coding	1.27	4.50E-03	4.47E-02

ENSG00000185274	GALNT17	protein_coding	-0.59	4.50E-03	4.47E-02
ENSG00000077063	CTTNBP2	protein_coding	0.70	4.53E-03	4.49E-02
ENSG00000105220	GPI	protein_coding	0.54	4.55E-03	4.51E-02
ENSG00000099219	ERMP1	protein_coding	0.61	4.55E-03	4.51E-02
ENSG00000109501	WFS1	protein_coding	0.80	4.58E-03	4.54E-02
ENSG00000172244	C5orf34	protein_coding	-0.66	4.59E-03	4.54E-02
ENSG00000104324	CPQ	protein_coding	0.38	4.60E-03	4.55E-02
ENSG00000123427	EEF1AKMT	protein_coding	-0.61	4.61E-03	4.56E-02
ENSG00000105131	EPHX3	protein_coding	1.38	4.62E-03	4.56E-02
ENSG00000078140	UBE2K	protein_coding	-0.56	4.69E-03	4.62E-02
ENSG00000112280	COL9A1	protein_coding	-0.82	4.71E-03	4.64E-02
ENSG00000168646	AXIN2	protein_coding	1.00	4.73E-03	4.65E-02
ENSG00000155974	GRIP1	protein_coding	1.08	4.74E-03	4.66E-02
ENSG00000110395	CBL	protein_coding	-0.38	4.74E-03	4.66E-02
ENSG00000138182	KIF20B	protein_coding	-0.42	4.75E-03	4.66E-02
ENSG00000151014	NOCT	protein_coding	-0.50	4.75E-03	4.66E-02
ENSG00000139517	LNX2	protein_coding	-0.62	4.77E-03	4.67E-02
ENSG00000182963	GJC1	protein_coding	-0.46	4.77E-03	4.67E-02
ENSG00000196562	SULF2	protein_coding	1.20	4.78E-03	4.68E-02
ENSG00000104147	OIP5	protein_coding	-0.61	4.81E-03	4.70E-02
ENSG00000118961	LDAH	protein_coding	0.64	4.82E-03	4.71E-02
ENSG00000163938	GNL3	protein_coding	-0.37	4.83E-03	4.72E-02
ENSG00000189266	PNRC2	protein_coding	-0.42	4.90E-03	4.78E-02
ENSG00000151725	CENPU	protein_coding	-0.48	4.95E-03	4.81E-02
ENSG00000156030	ELMSAN1	protein_coding	0.38	4.94E-03	4.81E-02
ENSG00000215018	COL28A1	protein_coding	1.01	4.94E-03	4.81E-02
ENSG00000165060	FXN	protein_coding	-0.48	4.95E-03	4.81E-02
ENSG00000178163	ZNF518B	protein_coding	-0.55	4.95E-03	4.81E-02
ENSG00000120437	ACAT2	protein_coding	-0.73	4.96E-03	4.82E-02
ENSG00000104129	DNAJC17	protein_coding	0.50	4.98E-03	4.83E-02
ENSG00000176444	CLK2	protein_coding	0.44	4.99E-03	4.84E-02
ENSG00000117394	SLC2A1	protein_coding	-0.57	5.03E-03	4.87E-02
ENSG00000165609	NUDT5	protein_coding	0.39	5.06E-03	4.89E-02
ENSG00000167378	IRGQ	protein_coding	-0.35	5.06E-03	4.90E-02
ENSG00000156140	ADAMTS3	protein_coding	0.38	5.08E-03	4.91E-02
ENSG00000087128	TMPRSS11	protein_coding	-0.92	5.09E-03	4.92E-02
ENSG00000106479	ZNF862	protein_coding	0.70	5.10E-03	4.92E-02
ENSG00000163900	TMEM41A	protein_coding	0.58	5.11E-03	4.92E-02
ENSG00000140265	ZSCAN29	protein_coding	-0.50	5.12E-03	4.93E-02
ENSG00000141376	BCAS3	protein_coding	0.36	5.12E-03	4.93E-02
ENSG00000136244	IL6	protein_coding	-0.56	5.13E-03	4.93E-02
ENSG00000068305	MEF2A	protein_coding	0.52	5.14E-03	4.94E-02
ENSG00000134007	ADAM20	protein_coding	1.16	5.14E-03	4.94E-02
ENSG00000253767	PCDHGA8	protein_coding	0.67	5.15E-03	4.94E-02
ENSG00000255112	CHMP1B	protein_coding	0.51	5.17E-03	4.96E-02
ENSG00000082641	NFE2L1	protein_coding	0.46	5.18E-03	4.96E-02
ENSG00000136542	GALNT5	protein_coding	-0.57	5.17E-03	4.96E-02
ENSG00000142619	PADI3	protein_coding	1.52	5.18E-03	4.96E-02
ENSG00000166669	ATF7IP2	protein_coding	-1.23	5.19E-03	4.97E-02
ENSG00000276600	RAB7B	protein_coding	0.60	5.21E-03	4.98E-02
ENSG00000198879	SFMBT2	protein_coding	-0.53	5.22E-03	4.99E-02

## List of DE pcRNAs (ShortTKD vs.NC)

	symbol	group	logFC	PValue	FDR
ENSG00000144959	NCEH1	protein_coding	-1.87	1.02E-39	1.59E-35
ENSG00000101350	KIF3B	protein_coding	1.41	3.57E-32	2.78E-28
ENSG00000143322	ABL2	protein_coding	-1.09	8.01E-32	4.17E-28
ENSG00000173726	TOMM20	protein_coding	-1.18	3.39E-29	1.32E-25
ENSG00000178202	KDELC2	protein_coding	-1.19	4.18E-27	1.30E-23
ENSG00000153904	DDAH1	protein_coding	-1.28	1.07E-23	2.78E-20
ENSG00000065911	MTHFD2	protein_coding	-1.01	3.09E-23	6.88E-20
ENSG00000123213	NLN	protein_coding	1.32	1.97E-21	3.83E-18
ENSG00000170385	SLC30A1	protein_coding	-1.52	3.15E-20	5.46E-17
ENSG00000197451	HNRNPAB	protein_coding	-0.90	9.70E-20	1.51E-16
ENSG00000186298	PPP1CC	protein_coding	1.23	2.55E-19	3.61E-16
ENSG00000152661	GJA1	protein_coding	1.15	1.79E-18	2.33E-15
ENSG00000082146	STRADB	protein_coding	-1.27	3.71E-18	4.46E-15
ENSG00000147853	AK3	protein_coding	1.10	4.54E-18	5.06E-15
ENSG00000035403	VCL	protein_coding	1.06	5.39E-18	5.60E-15
ENSG00000001461	NIPAL3	protein_coding	1.09	1.05E-17	1.02E-14
ENSG00000213390	ARHGAP19	protein_coding	-1.42	1.27E-16	1.17E-13
ENSG00000134046	MBD2	protein_coding	1.19	2.04E-16	1.77E-13
ENSG00000125249	RAP2A	protein_coding	1.30	2.33E-16	1.91E-13
ENSG00000165704	HPRT1	protein_coding	1.36	2.73E-16	2.13E-13
ENSG00000100554	ATP6V1D	protein_coding	1.04	5.61E-16	4.17E-13
ENSG00000149218	ENDOD1	protein_coding	-1.26	7.80E-16	5.53E-13
ENSG00000197312	DDI2	protein_coding	-0.95	1.39E-15	9.40E-13
ENSG00000145335	SNCA	protein_coding	1.17	3.37E-15	2.10E-12
ENSG00000164300	SERINC5	protein_coding	1.10	5.85E-15	3.51E-12
ENSG00000169180	XPO6	protein_coding	0.84	1.03E-14	5.95E-12
ENSG00000112697	TMEM30A	protein_coding	0.98	1.48E-14	8.26E-12
ENSG00000152377	SPOCK1	protein_coding	-1.14	1.56E-14	8.39E-12
ENSG00000100503	NIN	protein_coding	0.82	3.76E-14	1.95E-11
ENSG00000163428	LRRC58	protein_coding	1.05	4.16E-14	2.09E-11
ENSG00000121005	CRISPLD1	protein_coding	-1.14	4.72E-14	2.30E-11
ENSG00000120594	PLXDC2	protein_coding	1.09	6.31E-14	2.89E-11
ENSG00000185896	LAMP1	protein_coding	0.75	6.24E-14	2.89E-11
ENSG00000108821	COL1A1	protein_coding	0.99	8.80E-14	3.92E-11
ENSG00000101000	PROCR	protein_coding	1.13	1.17E-13	4.92E-11
ENSG00000110880	CORO1C	protein_coding	-0.90	1.17E-13	4.92E-11
ENSG00000184992	BRI3BP	protein_coding	-0.94	2.04E-13	8.16E-11
ENSG00000114812	VIPR1	protein_coding	1.05	2.12E-13	8.28E-11
ENSG00000174010	KLHL15	protein_coding	-1.22	3.27E-13	1.24E-10
ENSG00000173065	FAM222B	protein_coding	0.82	5.96E-13	2.22E-10
ENSG00000129128	SPCS3	protein_coding	-1.02	6.88E-13	2.50E-10
ENSG00000135823	STX6	protein_coding	0.92	8.94E-13	3.17E-10
ENSG00000139433	GLTP	protein_coding	0.96	1.46E-12	5.06E-10
ENSG00000110048	OSBP	protein_coding	0.80	1.76E-12	5.98E-10
ENSG00000065060	UHRF1BP1	protein_coding	-0.79	3.23E-12	1.07E-09
ENSG00000094975	SUCO	protein_coding	-0.84	3.38E-12	1.10E-09
ENSG00000115825	PRKD3	protein_coding	0.84	6.04E-12	1.92E-09
ENSG00000119314	PTBP3	protein_coding	-0.84	7.46E-12	2.32E-09
ENSG00000151012	SLC7A11	protein_coding	-1.02	7.57E-12	2.32E-09
ENSG00000095203	EPB41L4B	protein_coding	-0.92	8.68E-12	2.61E-09
ENSG00000184014	DENND5A	protein_coding	-0.73	1.03E-11	3.03E-09
ENSG00000070614	NDST1	protein_coding	1.04	1.14E-11	3.29E-09
ENSG00000112763	BTN2A1	protein_coding	0.81	1.39E-11	3.88E-09
ENSG00000167601	AXL	protein_coding	0.93	1.38E-11	3.88E-09
ENSG00000122203	KIAA1191	protein_coding	0.70	3.61E-11	9.70E-09
ENSG00000196950	SLC39A10	protein_coding	-0.98	7.37E-11	1.92E-08
ENSG00000134291	TMEM106C	protein_coding	0.75	8.96E-11	2.29E-08
ENSG00000139644	TMBIM6	protein_coding	0.66	1.26E-10	3.17E-08
ENSG00000155380	SLC16A1	protein_coding	-0.76	1.89E-10	4.69E-08
ENSG00000159055	MIS18A	protein_coding	-1.00	2.33E-10	5.67E-08
ENSG00000054983	GALC	protein_coding	0.82	2.45E-10	5.87E-08
ENSG00000006125	AP2B1	protein_coding	0.61	2.63E-10	6.21E-08
ENSG00000175175	PPM1E	protein_coding	-1.71	2.90E-10	6.74E-08

ENSG00000120656	TAF12	protein_coding	1.04	3.71E-10	8.50E-08
ENSG00000140105	WARS	protein_coding	0.84	4.81E-10	1.09E-07
ENSG00000108100	CCNY	protein_coding	0.88	4.98E-10	1.11E-07
ENSG00000006432	MAP3K9	protein_coding	-0.77	5.73E-10	1.26E-07
ENSG00000153214	TMEM87B	protein_coding	0.78	8.37E-10	1.81E-07
ENSG00000063180	CA11	protein_coding	0.86	9.61E-10	2.05E-07
ENSG00000111110	PPM1H	protein_coding	0.59	1.02E-09	2.14E-07
ENSG00000158435	CNOT11	protein_coding	-0.85	1.03E-09	2.14E-07
ENSG00000132823	OSER1	protein_coding	-0.87	1.13E-09	2.33E-07
ENSG00000163251	FZD5	protein_coding	-1.08	1.27E-09	2.57E-07
ENSG00000133606	MKRN1	protein_coding	0.73	1.31E-09	2.61E-07
ENSG00000248109	AC011346.1	protein_coding	-1.14	1.39E-09	2.75E-07
ENSG00000205221	VIT	protein_coding	1.10	1.45E-09	2.83E-07
ENSG00000166128	RAB8B	protein_coding	-1.15	1.68E-09	3.24E-07
ENSG00000059804	SLC2A3	protein_coding	-1.14	1.84E-09	3.46E-07
ENSG00000143815	LBR	protein_coding	-0.69	1.83E-09	3.46E-07
ENSG00000186951	PPARA	protein_coding	-1.15	2.02E-09	3.76E-07
ENSG00000159217	IGF2BP1	protein_coding	-0.56	2.17E-09	3.98E-07
ENSG00000106771	TMEM245	protein_coding	0.63	2.24E-09	4.06E-07
ENSG00000167193	CRK	protein_coding	0.61	2.69E-09	4.83E-07
ENSG00000170004	CHD3	protein_coding	0.74	3.11E-09	5.52E-07
ENSG00000057663	ATG5	protein_coding	0.75	3.23E-09	5.66E-07
ENSG00000135272	MDFIC	protein_coding	-0.84	3.61E-09	6.25E-07
ENSG00000180694	TMEM64	protein_coding	-0.75	4.01E-09	6.88E-07
ENSG00000109819	PPARGC1A	protein_coding	1.13	4.28E-09	7.26E-07
ENSG00000198756	COLGALT2	protein_coding	0.69	4.98E-09	8.36E-07
ENSG00000213281	NRAS	protein_coding	0.82	5.29E-09	8.73E-07
ENSG00000247315	ZCCHC3	protein_coding	-0.79	5.31E-09	8.73E-07
ENSG00000214510	SPINK13	protein_coding	-0.89	5.60E-09	9.10E-07
ENSG00000171848	RRM2	protein_coding	-0.73	6.96E-09	1.12E-06
ENSG00000114450	GNB4	protein_coding	-0.73	7.27E-09	1.16E-06
ENSG00000108582	CPD	protein_coding	-0.82	9.50E-09	1.50E-06
ENSG00000121274	PAPD5	protein_coding	-0.98	9.83E-09	1.53E-06
ENSG00000123836	PFKFB2	protein_coding	-0.69	1.07E-08	1.65E-06
ENSG00000139514	SLC7A1	protein_coding	-0.65	1.08E-08	1.65E-06
ENSG00000130066	SAT1	protein_coding	0.58	1.12E-08	1.69E-06
ENSG00000175592	FOSL1	protein_coding	-1.11	1.14E-08	1.72E-06
ENSG00000156671	SAMD8	protein_coding	0.76	1.20E-08	1.78E-06
ENSG00000178695	KCTD12	protein_coding	1.01	1.21E-08	1.78E-06
ENSG00000123575	FAM199X	protein_coding	-0.93	1.28E-08	1.87E-06
ENSG00000113300	CNOT6	protein_coding	-0.75	1.30E-08	1.88E-06
ENSG00000154359	LONRF1	protein_coding	0.74	1.44E-08	2.06E-06
ENSG00000134070	IRAK2	protein_coding	-1.01	1.52E-08	2.15E-06
ENSG00000170017	ALCAM	protein_coding	0.72	1.58E-08	2.21E-06
ENSG00000085721	RRN3	protein_coding	-0.72	1.74E-08	2.43E-06
ENSG00000087253	LPCAT2	protein_coding	-0.98	1.80E-08	2.49E-06
ENSG00000134954	ETS1	protein_coding	0.61	1.96E-08	2.68E-06
ENSG00000086062	B4GALT1	protein_coding	-0.83	2.50E-08	3.39E-06
ENSG00000106799	TGFBR1	protein_coding	-0.69	2.61E-08	3.51E-06
ENSG00000151718	WWC2	protein_coding	0.62	2.74E-08	3.66E-06
ENSG00000112144	ICK	protein_coding	0.65	3.04E-08	4.02E-06
ENSG00000110851	PRDM4	protein_coding	-0.64	3.34E-08	4.38E-06
ENSG00000165156	ZHX1	protein_coding	-0.90	3.43E-08	4.46E-06
ENSG00000157388	CACNA1D	protein_coding	0.82	3.55E-08	4.58E-06
ENSG00000022840	RNF10	protein_coding	0.73	3.69E-08	4.71E-06
ENSG00000135414	GDF11	protein_coding	-0.68	3.83E-08	4.86E-06
ENSG00000183283	DAZAP2	protein_coding	0.66	4.08E-08	5.13E-06
ENSG00000073282	TP63	protein_coding	-0.81	4.60E-08	5.74E-06
ENSG00000182670	TTC3	protein_coding	0.66	4.78E-08	5.92E-06
ENSG00000006459	KDM7A	protein_coding	-0.80	4.82E-08	5.92E-06
ENSG00000152939	MARVELD2	protein_coding	0.77	4.96E-08	6.04E-06
ENSG00000271601	LIX1L	protein_coding	0.58	5.14E-08	6.22E-06
ENSG00000205268	PDE7A	protein_coding	-0.66	5.71E-08	6.85E-06
ENSG00000213366	GSTM2	protein_coding	0.95	6.29E-08	7.49E-06
ENSG00000115159	GPD2	protein_coding	-0.58	6.38E-08	7.54E-06

ENSG00000153956	CACNA2D1	protein_coding	1.12	6.53E-08	7.66E-06
ENSG00000105270	CLIP3	protein_coding	1.15	7.49E-08	8.72E-06
ENSG00000183778	B3GALT5	protein_coding	-2.27	9.00E-08	1.04E-05
ENSG00000145901	TNIP1	protein_coding	0.66	9.76E-08	1.12E-05
ENSG00000131504	DIAPH1	protein_coding	0.61	1.04E-07	1.18E-05
ENSG00000135048	TMEM2	protein_coding	-1.19	1.10E-07	1.24E-05
ENSG00000165474	GJB2	protein_coding	-1.68	1.13E-07	1.26E-05
ENSG00000097033	SH3GLB1	protein_coding	-0.78	1.25E-07	1.40E-05
ENSG00000164924	YWHAZ	protein_coding	0.61	1.29E-07	1.43E-05
ENSG00000128578	STRIP2	protein_coding	-0.85	1.40E-07	1.54E-05
ENSG00000165097	KDM1B	protein_coding	0.70	1.43E-07	1.56E-05
ENSG00000001561	ENPP4	protein_coding	0.75	1.49E-07	1.62E-05
ENSG00000122376	FAM35A	protein_coding	0.71	1.52E-07	1.64E-05
ENSG00000133740	E2F5	protein_coding	-0.91	1.72E-07	1.84E-05
ENSG00000083067	TRPM3	protein_coding	-0.79	1.80E-07	1.91E-05
ENSG00000184005	ST6GALNAC	protein_coding	1.03	1.83E-07	1.93E-05
ENSG00000108960	MMD	protein_coding	-1.12	1.93E-07	2.01E-05
ENSG00000198824	CHAMP1	protein_coding	0.61	1.93E-07	2.01E-05
ENSG00000178662	CSRNP3	protein_coding	0.68	1.95E-07	2.01E-05
ENSG00000132964	CDK8	protein_coding	-0.84	1.96E-07	2.01E-05
ENSG00000143476	DTL	protein_coding	-0.57	1.97E-07	2.01E-05
ENSG00000101346	POFUT1	protein_coding	-0.62	2.02E-07	2.05E-05
ENSG00000003989	SLC7A2	protein_coding	-0.97	2.24E-07	2.24E-05
ENSG00000136816	TOR1B	protein_coding	0.68	2.23E-07	2.24E-05
ENSG00000117479	SLC19A2	protein_coding	-0.90	2.29E-07	2.27E-05
ENSG00000109133	TMEM33	protein_coding	0.60	2.39E-07	2.36E-05
ENSG00000140526	ABHD2	protein_coding	-0.59	2.76E-07	2.71E-05
ENSG00000128829	EIF2AK4	protein_coding	0.65	3.06E-07	2.98E-05
ENSG00000164938	TP53INP1	protein_coding	-0.95	3.12E-07	3.02E-05
ENSG00000272391	POM121C	protein_coding	-0.56	3.46E-07	3.34E-05
ENSG00000197977	ELOVL2	protein_coding	-0.67	3.59E-07	3.44E-05
ENSG00000072803	FBXW11	protein_coding	-0.70	3.70E-07	3.49E-05
ENSG00000136122	BORA	protein_coding	-0.67	3.67E-07	3.49E-05
ENSG00000011114	BTBD7	protein_coding	0.66	4.20E-07	3.95E-05
ENSG00000138646	HERC5	protein_coding	-0.94	5.20E-07	4.86E-05
ENSG00000131876	SNRPA1	protein_coding	0.56	5.64E-07	5.24E-05
ENSG00000168329	CX3CR1	protein_coding	0.69	6.13E-07	5.65E-05
ENSG00000139496	NUP58	protein_coding	-0.57	6.43E-07	5.90E-05
ENSG00000065000	AP3D1	protein_coding	0.73	6.61E-07	6.03E-05
ENSG00000145864	GABRB2	protein_coding	0.94	6.78E-07	6.15E-05
ENSG00000101911	PRPS2	protein_coding	1.16	8.17E-07	7.37E-05
ENSG00000171320	ESCO2	protein_coding	-0.68	8.82E-07	7.90E-05
ENSG00000145391	SETD7	protein_coding	-0.68	9.33E-07	8.31E-05
ENSG00000124562	SNRPC	protein_coding	-0.67	9.47E-07	8.39E-05
ENSG00000173530	TNFRSF10D	protein_coding	0.67	9.62E-07	8.48E-05
ENSG00000111679	PTPN6	protein_coding	1.00	9.77E-07	8.56E-05
ENSG00000048471	SNX29	protein_coding	0.67	1.00E-06	8.75E-05
ENSG00000181704	YIPF6	protein_coding	-0.87	1.07E-06	9.28E-05
ENSG00000100441	KHNYN	protein_coding	-0.66	1.08E-06	9.29E-05
ENSG00000108861	DUSP3	protein_coding	-0.56	1.09E-06	9.33E-05
ENSG00000158711	ELK4	protein_coding	-0.70	1.16E-06	9.86E-05
ENSG00000113845	TIMMDC1	protein_coding	0.85	1.21E-06	1.03E-04
ENSG00000169905	TOR1AIP2	protein_coding	0.45	1.45E-06	1.22E-04
ENSG00000159720	ATP6V0D1	protein_coding	0.95	1.59E-06	1.33E-04
ENSG00000164466	SFXN1	protein_coding	-0.53	1.62E-06	1.35E-04
ENSG00000124575	HIST1H1D	protein_coding	-1.11	1.66E-06	1.38E-04
ENSG00000111540	RAB5B	protein_coding	0.60	1.85E-06	1.53E-04
ENSG00000121060	TRIM25	protein_coding	-0.64	1.93E-06	1.59E-04
ENSG00000114739	ACVR2B	protein_coding	-0.73	2.18E-06	1.78E-04
ENSG00000076716	GPC4	protein_coding	-0.53	2.21E-06	1.80E-04
ENSG00000112078	KCTD20	protein_coding	-0.62	2.24E-06	1.81E-04
ENSG00000135312	HTR1B	protein_coding	1.63	2.30E-06	1.85E-04
ENSG00000168411	RFWD3	protein_coding	-0.57	2.33E-06	1.86E-04
ENSG00000138771	SHROOM3	protein_coding	0.67	2.47E-06	1.96E-04
ENSG00000105173	CCNE1	protein_coding	-0.70	2.63E-06	2.07E-04

ENSG00000137177	KIF13A	protein_coding	0.50	2.63E-06	2.07E-04
ENSG00000120519	SLC10A7	protein_coding	-0.78	2.74E-06	2.15E-04
ENSG00000156017	CARNMT1	protein_coding	-0.81	2.78E-06	2.17E-04
ENSG00000104081	BMF	protein_coding	0.80	2.86E-06	2.22E-04
ENSG00000170745	KCNS3	protein_coding	-1.49	2.90E-06	2.24E-04
ENSG00000204923	FBXO48	protein_coding	-0.88	2.96E-06	2.27E-04
ENSG00000131374	TBC1D5	protein_coding	0.54	3.29E-06	2.51E-04
ENSG00000164045	CDC25A	protein_coding	-0.80	3.28E-06	2.51E-04
ENSG00000198492	YTHDF2	protein_coding	0.69	3.33E-06	2.52E-04
ENSG00000110092	CCND1	protein_coding	-0.76	3.48E-06	2.63E-04
ENSG00000131711	MAP1B	protein_coding	0.49	3.59E-06	2.69E-04
ENSG00000113456	RAD1	protein_coding	-0.67	3.65E-06	2.72E-04
ENSG00000141867	BRD4	protein_coding	0.44	4.09E-06	3.04E-04
ENSG00000140416	TPM1	protein_coding	0.51	4.29E-06	3.17E-04
ENSG00000101367	MAPRE1	protein_coding	-0.47	4.34E-06	3.19E-04
ENSG00000143418	CERS2	protein_coding	0.53	4.35E-06	3.19E-04
ENSG00000035141	FAM136A	protein_coding	-0.50	4.58E-06	3.33E-04
ENSG00000084444	FAM234B	protein_coding	-0.83	4.56E-06	3.33E-04
ENSG00000172061	LRRC15	protein_coding	-1.10	4.73E-06	3.42E-04
ENSG00000099246	RAB18	protein_coding	-0.57	4.78E-06	3.43E-04
ENSG00000104660	LEPROTL1	protein_coding	-0.72	4.79E-06	3.43E-04
ENSG00000121957	GPSM2	protein_coding	-0.68	4.83E-06	3.44E-04
ENSG00000120837	NFYB	protein_coding	-0.55	5.15E-06	3.65E-04
ENSG00000162441	LZIC	protein_coding	0.80	5.34E-06	3.77E-04
ENSG00000115539	PDCL3	protein_coding	0.65	5.55E-06	3.86E-04
ENSG00000117758	STX12	protein_coding	-0.61	5.54E-06	3.86E-04
ENSG00000167005	NUDT21	protein_coding	-0.60	5.52E-06	3.86E-04
ENSG00000137265	IRF4	protein_coding	-0.69	5.58E-06	3.87E-04
ENSG00000177034	MTX3	protein_coding	-0.50	6.01E-06	4.15E-04
ENSG00000155099	TMEM55A	protein_coding	0.69	6.25E-06	4.30E-04
ENSG00000164236	ANKRD33B	protein_coding	-0.75	6.44E-06	4.41E-04
ENSG00000150938	CRIM1	protein_coding	0.50	6.50E-06	4.43E-04
ENSG00000100796	PPP4R3A	protein_coding	-0.47	7.06E-06	4.79E-04
ENSG00000104164	BLOC1S6	protein_coding	-0.75	7.66E-06	5.15E-04
ENSG00000167378	IRGQ	protein_coding	-0.49	7.65E-06	5.15E-04
ENSG00000112419	PHACTR2	protein_coding	-0.62	7.73E-06	5.17E-04
ENSG00000181826	RELL1	protein_coding	-0.56	8.12E-06	5.41E-04
ENSG00000148154	UGCG	protein_coding	-0.49	8.16E-06	5.42E-04
ENSG00000145882	PCYOX1L	protein_coding	1.09	8.49E-06	5.61E-04
ENSG00000141580	WDR45B	protein_coding	-0.64	8.92E-06	5.87E-04
ENSG00000172795	DCP2	protein_coding	-0.59	8.98E-06	5.88E-04
ENSG00000101290	CDS2	protein_coding	-0.60	9.03E-06	5.89E-04
ENSG00000182247	UBE2E2	protein_coding	-0.82	9.54E-06	6.20E-04
ENSG00000145907	G3BP1	protein_coding	0.42	9.80E-06	6.34E-04
ENSG00000171867	PRNP	protein_coding	-0.89	1.02E-05	6.57E-04
ENSG00000137460	FHDC1	protein_coding	0.59	1.05E-05	6.71E-04
ENSG00000153561	RMND5A	protein_coding	-0.60	1.10E-05	6.98E-04
ENSG00000175087	PDIK1L	protein_coding	-0.64	1.10E-05	6.98E-04
ENSG00000112964	GHR	protein_coding	0.60	1.12E-05	7.08E-04
ENSG00000147471	PLPBP	protein_coding	0.59	1.14E-05	7.20E-04
ENSG00000154930	ACSS1	protein_coding	-0.93	1.29E-05	8.03E-04
ENSG00000129317	PUS7L	protein_coding	-0.56	1.30E-05	8.11E-04
ENSG00000136352	NKX2-1	protein_coding	1.56	1.32E-05	8.16E-04
ENSG00000157869	RAB28	protein_coding	-0.61	1.34E-05	8.27E-04
ENSG00000186472	PCLO	protein_coding	-0.56	1.39E-05	8.54E-04
ENSG00000072364	AFF4	protein_coding	0.47	1.46E-05	8.92E-04
ENSG00000124145	SDC4	protein_coding	-0.78	1.47E-05	8.92E-04
ENSG00000140835	CHST4	protein_coding	0.67	1.47E-05	8.92E-04
ENSG00000168385	2-Sep	protein_coding	0.41	1.55E-05	9.39E-04
ENSG00000170456	DENND5B	protein_coding	-0.74	1.60E-05	9.62E-04
ENSG00000177606	JUN	protein_coding	-0.62	1.63E-05	9.80E-04
ENSG00000185697	MYBL1	protein_coding	-0.77	1.65E-05	9.87E-04
ENSG00000005020	SKAP2	protein_coding	0.73	1.66E-05	9.88E-04
ENSG00000008282	SYPL1	protein_coding	-0.63	1.68E-05	9.88E-04
ENSG00000140307	GTF2A2	protein_coding	0.67	1.68E-05	9.88E-04



ENSG00000196313	POM121	protein_coding	-0.54	1.68E-05	9.88E-04
ENSG00000213064	SFT2D2	protein_coding	-0.72	1.67E-05	9.88E-04
ENSG00000167552	TUBA1A	protein_coding	0.52	1.73E-05	1.01E-03
ENSG00000110987	BCL7A	protein_coding	0.80	1.80E-05	1.05E-03
ENSG00000167767	KRT80	protein_coding	-0.79	1.81E-05	1.05E-03
ENSG00000177981	ASB8	protein_coding	0.59	1.85E-05	1.07E-03
ENSG00000170653	ATF7	protein_coding	0.50	1.96E-05	1.13E-03
ENSG00000069869	NEDD4	protein_coding	-0.58	2.04E-05	1.17E-03
ENSG00000166924	NYAP1	protein_coding	1.68	2.04E-05	1.17E-03
ENSG00000198786	MT-ND5	protein_coding	0.45	2.06E-05	1.18E-03
ENSG00000162300	ZFPL1	protein_coding	0.76	2.26E-05	1.28E-03
ENSG00000037749	MFAP3	protein_coding	0.59	2.28E-05	1.29E-03
ENSG00000163820	FYCO1	protein_coding	0.47	2.29E-05	1.29E-03
ENSG00000181381	DDX60L	protein_coding	-0.51	2.29E-05	1.29E-03
ENSG00000134202	GSTM3	protein_coding	0.52	2.50E-05	1.39E-03
ENSG00000205730	ITPRIPL2	protein_coding	-0.44	2.49E-05	1.39E-03
ENSG00000167034	NKX3-1	protein_coding	-0.47	2.51E-05	1.39E-03
ENSG00000100139	MICALL1	protein_coding	-0.70	2.55E-05	1.41E-03
ENSG00000176641	RNF152	protein_coding	0.92	2.58E-05	1.42E-03
ENSG00000109321	AREG	protein_coding	0.61	2.67E-05	1.46E-03
ENSG00000164023	SGMS2	protein_coding	-0.74	2.72E-05	1.49E-03
ENSG00000184156	KCNQ3	protein_coding	-0.85	2.73E-05	1.49E-03
ENSG00000101104	PABPC1L	protein_coding	0.67	2.88E-05	1.56E-03
ENSG00000112902	SEMA5A	protein_coding	0.57	2.90E-05	1.57E-03
ENSG00000171451	DSEL	protein_coding	0.73	2.91E-05	1.57E-03
ENSG00000160710	ADAR	protein_coding	0.59	2.98E-05	1.60E-03
ENSG00000105971	CAV2	protein_coding	-0.52	3.00E-05	1.61E-03
ENSG00000110844	PRPF40B	protein_coding	0.70	3.02E-05	1.61E-03
ENSG00000117523	PRRC2C	protein_coding	0.44	3.09E-05	1.64E-03
ENSG00000103591	AAGAB	protein_coding	0.46	3.38E-05	1.79E-03
ENSG00000197329	PELI1	protein_coding	-0.64	3.40E-05	1.79E-03
ENSG00000176046	NUPR1	protein_coding	0.55	3.42E-05	1.80E-03
ENSG00000143878	RHOB	protein_coding	-0.77	3.49E-05	1.83E-03
ENSG00000169504	CLIC4	protein_coding	0.49	3.52E-05	1.83E-03
ENSG00000196678	ERI2	protein_coding	-0.58	3.53E-05	1.83E-03
ENSG00000065485	PDIA5	protein_coding	-0.75	3.72E-05	1.93E-03
ENSG00000173083	HPSE	protein_coding	0.82	3.78E-05	1.95E-03
ENSG00000204272	NBDY	protein_coding	0.50	4.03E-05	2.07E-03
ENSG00000011465	DCN	protein_coding	0.51	4.08E-05	2.09E-03
ENSG00000104369	JPH1	protein_coding	0.60	4.12E-05	2.11E-03
ENSG00000164933	SLC25A32	protein_coding	-0.73	4.20E-05	2.14E-03
ENSG00000196323	ZBTB44	protein_coding	-0.58	4.29E-05	2.18E-03
ENSG00000196449	YRDC	protein_coding	-1.24	4.51E-05	2.28E-03
ENSG00000130956	HABP4	protein_coding	0.54	4.53E-05	2.28E-03
ENSG00000121064	SCPEP1	protein_coding	0.53	4.65E-05	2.34E-03
ENSG00000104490	NCALD	protein_coding	0.56	4.78E-05	2.40E-03
ENSG00000156463	SH3RF2	protein_coding	-0.85	4.85E-05	2.42E-03
ENSG00000103769	RAB11A	protein_coding	0.42	4.94E-05	2.46E-03
ENSG00000255690	TRIL	protein_coding	0.76	5.04E-05	2.50E-03
ENSG00000120539	MASTL	protein_coding	-0.53	5.11E-05	2.53E-03
ENSG00000173812	EIF1	protein_coding	0.44	5.22E-05	2.58E-03
ENSG00000100625	SIX4	protein_coding	-0.56	5.41E-05	2.66E-03
ENSG00000214189	ZNF788	protein_coding	-0.72	5.46E-05	2.68E-03
ENSG00000101752	MIB1	protein_coding	0.54	5.50E-05	2.69E-03
ENSG00000164949	GEM	protein_coding	-0.62	5.57E-05	2.72E-03
ENSG00000118495	PLAGL1	protein_coding	-0.65	5.71E-05	2.77E-03
ENSG00000198420	TCAF1	protein_coding	0.50	5.71E-05	2.77E-03
ENSG00000257923	CUX1	protein_coding	0.39	5.83E-05	2.82E-03
ENSG00000140948	ZCCHC14	protein_coding	-0.48	5.86E-05	2.82E-03
ENSG00000027001	MIPEP	protein_coding	-0.69	5.92E-05	2.84E-03
ENSG00000031081	ARHGAP31	protein_coding	0.43	5.94E-05	2.84E-03
ENSG00000166479	TMX3	protein_coding	-0.54	5.95E-05	2.84E-03
ENSG00000127022	CANX	protein_coding	-0.39	6.18E-05	2.94E-03
ENSG00000069956	MAPK6	protein_coding	0.59	6.40E-05	3.04E-03
ENSG00000123612	ACVR1C	protein_coding	-1.02	6.54E-05	3.09E-03

ENSG00000111707	SUDS3	protein_coding	0.48	6.62E-05	3.12E-03
ENSG00000159110	IFNAR2	protein_coding	-0.59	6.75E-05	3.17E-03
ENSG00000114956	DGUOK	protein_coding	-0.57	7.02E-05	3.29E-03
ENSG00000179387	ELMOD2	protein_coding	-0.54	7.26E-05	3.39E-03
ENSG00000067900	ROCK1	protein_coding	0.53	7.33E-05	3.41E-03
ENSG00000104687	GSR	protein_coding	-0.44	7.40E-05	3.43E-03
ENSG00000142149	HUNK	protein_coding	0.50	7.42E-05	3.43E-03
ENSG00000140319	SRP14	protein_coding	0.54	7.46E-05	3.44E-03
ENSG00000125971	DYNLRB1	protein_coding	0.43	7.55E-05	3.47E-03
ENSG00000153815	CMIP	protein_coding	0.52	7.61E-05	3.49E-03
ENSG00000165476	REEP3	protein_coding	-0.66	7.72E-05	3.53E-03
ENSG00000115738	ID2	protein_coding	0.63	7.78E-05	3.55E-03
ENSG00000141458	NPC1	protein_coding	-0.51	7.88E-05	3.58E-03
ENSG00000101412	E2F1	protein_coding	-0.94	8.11E-05	3.67E-03
ENSG00000152556	PFKM	protein_coding	0.49	8.09E-05	3.67E-03
ENSG00000019186	CYP24A1	protein_coding	0.93	8.26E-05	3.71E-03
ENSG00000124181	PLCG1	protein_coding	0.59	8.39E-05	3.76E-03
ENSG00000225830	ERCC6	protein_coding	0.52	8.42E-05	3.76E-03
ENSG00000137478	FCHSD2	protein_coding	0.54	8.48E-05	3.77E-03
ENSG00000156052	GNAQ	protein_coding	-0.45	8.50E-05	3.77E-03
ENSG00000163935	SFMBT1	protein_coding	-0.53	8.48E-05	3.77E-03
ENSG00000129472	RAB2B	protein_coding	0.88	8.57E-05	3.79E-03
ENSG00000143190	POU2F1	protein_coding	-0.43	8.63E-05	3.80E-03
ENSG00000134531	EMP1	protein_coding	-0.46	8.84E-05	3.88E-03
ENSG00000124541	RRP36	protein_coding	0.45	9.08E-05	3.98E-03
ENSG00000069122	ADGRF5	protein_coding	0.51	9.31E-05	4.07E-03
ENSG00000135776	ABCB10	protein_coding	0.66	9.40E-05	4.10E-03
ENSG00000101966	XIAP	protein_coding	0.57	9.58E-05	4.16E-03
ENSG00000169902	TPST1	protein_coding	-0.68	9.60E-05	4.16E-03
ENSG00000196715	VKORC1L1	protein_coding	0.46	9.72E-05	4.20E-03
ENSG00000088247	KHSRP	protein_coding	-0.42	1.01E-04	4.34E-03
ENSG00000096070	BRPF3	protein_coding	-0.51	1.04E-04	4.46E-03
ENSG00000163900	TMEM41A	protein_coding	0.77	1.11E-04	4.74E-03
ENSG00000253250	C8orf88	protein_coding	-0.78	1.11E-04	4.74E-03
ENSG00000267041	ZNF850	protein_coding	-0.57	1.11E-04	4.74E-03
ENSG00000070778	PTPN21	protein_coding	0.65	1.14E-04	4.82E-03
ENSG00000177570	SAMD12	protein_coding	0.50	1.14E-04	4.82E-03
ENSG00000170113	NIPA1	protein_coding	-0.51	1.14E-04	4.84E-03
ENSG00000176624	MEX3C	protein_coding	0.46	1.15E-04	4.85E-03
ENSG00000112378	PERP	protein_coding	-0.64	1.17E-04	4.92E-03
ENSG00000158615	PPP1R15B	protein_coding	-0.38	1.17E-04	4.92E-03
ENSG00000163947	ARHGEF3	protein_coding	-0.54	1.18E-04	4.92E-03
ENSG00000180998	GPR137C	protein_coding	-1.17	1.18E-04	4.94E-03
ENSG00000111142	METAP2	protein_coding	0.61	1.21E-04	5.02E-03
ENSG00000072121	ZFYVE26	protein_coding	-0.44	1.21E-04	5.03E-03
ENSG00000143033	MTF2	protein_coding	-0.50	1.33E-04	5.48E-03
ENSG00000167325	RRM1	protein_coding	-0.59	1.33E-04	5.49E-03
ENSG00000111371	SLC38A1	protein_coding	0.41	1.35E-04	5.54E-03
ENSG00000152520	PAN3	protein_coding	-0.44	1.36E-04	5.57E-03
ENSG00000116918	TSNAX	protein_coding	0.56	1.37E-04	5.61E-03
ENSG00000027075	PRKCH	protein_coding	0.62	1.39E-04	5.67E-03
ENSG00000092964	DPYSL2	protein_coding	0.38	1.40E-04	5.69E-03
ENSG00000110911	SLC11A2	protein_coding	-0.45	1.42E-04	5.77E-03
ENSG00000166295	ANAPC16	protein_coding	-0.65	1.47E-04	5.93E-03
ENSG00000180011	ZADH2	protein_coding	-0.49	1.47E-04	5.93E-03
ENSG00000137273	FOXF2	protein_coding	0.62	1.51E-04	6.08E-03
ENSG00000101846	STS	protein_coding	-0.61	1.52E-04	6.08E-03
ENSG00000138660	AP1AR	protein_coding	0.65	1.55E-04	6.18E-03
ENSG00000181751	C5orf30	protein_coding	-0.84	1.62E-04	6.43E-03
ENSG00000075391	RASAL2	protein_coding	-0.45	1.62E-04	6.45E-03
ENSG00000198074	AKR1B10	protein_coding	0.80	1.71E-04	6.78E-03
ENSG00000163683	SMIM14	protein_coding	-0.45	1.74E-04	6.89E-03
ENSG00000188167	TMPPE	protein_coding	-0.92	1.77E-04	6.95E-03
ENSG00000197557	TTC30A	protein_coding	-0.67	1.77E-04	6.95E-03
ENSG00000145416	1-Mar	protein_coding	-0.74	1.78E-04	6.96E-03

ENSG00000223501	VPS52	protein_coding	0.40	1.78E-04	6.96E-03
ENSG00000066697	MSANTD3	protein_coding	-0.55	1.79E-04	6.97E-03
ENSG00000155897	ADCY8	protein_coding	-1.18	1.79E-04	6.97E-03
ENSG00000075089	ACTR6	protein_coding	0.74	1.80E-04	6.99E-03
ENSG00000187098	MITF	protein_coding	-0.67	1.83E-04	7.06E-03
ENSG00000114529	C3orf52	protein_coding	-0.56	1.85E-04	7.13E-03
ENSG00000205413	SAMD9	protein_coding	-0.44	1.87E-04	7.17E-03
ENSG00000125266	EFNB2	protein_coding	-0.61	1.91E-04	7.32E-03
ENSG00000128923	MINDY2	protein_coding	-0.73	1.95E-04	7.47E-03
ENSG00000149554	CHEK1	protein_coding	-0.53	1.97E-04	7.50E-03
ENSG00000169398	PTK2	protein_coding	0.44	1.97E-04	7.50E-03
ENSG00000099250	NRP1	protein_coding	0.36	2.00E-04	7.56E-03
ENSG00000133195	SLC39A11	protein_coding	0.51	2.01E-04	7.56E-03
ENSG00000159216	RUNX1	protein_coding	-0.64	2.00E-04	7.56E-03
ENSG00000173281	PPP1R3B	protein_coding	-0.52	2.01E-04	7.56E-03
ENSG00000186470	BTN3A2	protein_coding	0.40	2.01E-04	7.56E-03
ENSG00000095015	MAP3K1	protein_coding	0.52	2.04E-04	7.67E-03
ENSG00000081154	PCNP	protein_coding	-0.43	2.07E-04	7.75E-03
ENSG00000162694	EXTL2	protein_coding	0.61	2.28E-04	8.51E-03
ENSG00000128585	MKLN1	protein_coding	-0.48	2.30E-04	8.56E-03
ENSG00000089327	FXVD5	protein_coding	0.59	2.33E-04	8.67E-03
ENSG00000120137	PANK3	protein_coding	-0.57	2.39E-04	8.84E-03
ENSG00000140943	MBTPS1	protein_coding	-0.38	2.39E-04	8.85E-03
ENSG00000142864	SERBP1	protein_coding	0.39	2.45E-04	9.02E-03
ENSG00000152601	MBNL1	protein_coding	0.40	2.46E-04	9.06E-03
ENSG00000146535	GNA12	protein_coding	0.50	2.47E-04	9.07E-03
ENSG00000174013	FBXO45	protein_coding	-0.55	2.76E-04	1.01E-02
ENSG00000006607	FARP2	protein_coding	-0.42	2.77E-04	1.01E-02
ENSG00000050393	MCUR1	protein_coding	0.46	2.82E-04	1.03E-02
ENSG00000186834	HEXIM1	protein_coding	0.49	2.82E-04	1.03E-02
ENSG00000114738	MAPKAPK3	protein_coding	-0.51	2.84E-04	1.03E-02
ENSG00000132359	RAP1GAP2	protein_coding	0.52	2.86E-04	1.04E-02
ENSG00000113369	ARRDC3	protein_coding	-0.64	2.97E-04	1.07E-02
ENSG00000143641	GALNT2	protein_coding	0.45	2.95E-04	1.07E-02
ENSG00000173698	ADGRG2	protein_coding	0.58	2.96E-04	1.07E-02
ENSG00000196850	PPTC7	protein_coding	-0.46	3.06E-04	1.10E-02
ENSG00000205208	C4orf46	protein_coding	-0.41	3.08E-04	1.10E-02
ENSG00000257218	GATC	protein_coding	-0.58	3.08E-04	1.10E-02
ENSG00000139163	ETNK1	protein_coding	-0.52	3.12E-04	1.11E-02
ENSG00000165527	ARF6	protein_coding	0.37	3.11E-04	1.11E-02
ENSG00000167220	HDHD2	protein_coding	-0.71	3.14E-04	1.11E-02
ENSG00000121579	NAA50	protein_coding	-0.48	3.17E-04	1.12E-02
ENSG00000182263	FIGN	protein_coding	-0.51	3.19E-04	1.13E-02
ENSG00000121691	CAT	protein_coding	0.54	3.36E-04	1.18E-02
ENSG00000137331	IER3	protein_coding	0.71	3.38E-04	1.19E-02
ENSG00000196547	MAN2A2	protein_coding	0.49	3.39E-04	1.19E-02
ENSG00000179331	RAB39A	protein_coding	-0.89	3.43E-04	1.20E-02
ENSG00000134250	NOTCH2	protein_coding	-0.33	3.48E-04	1.21E-02
ENSG00000154928	EPHB1	protein_coding	0.77	3.49E-04	1.21E-02
ENSG00000113083	LOX	protein_coding	-1.07	3.54E-04	1.23E-02
ENSG00000163840	DTX3L	protein_coding	-0.48	3.59E-04	1.24E-02
ENSG00000118946	PCDH17	protein_coding	0.63	3.61E-04	1.25E-02
ENSG00000172469	MANEA	protein_coding	-0.47	3.66E-04	1.26E-02
ENSG00000174808	BTC	protein_coding	-0.93	3.72E-04	1.27E-02
ENSG00000215301	DDX3X	protein_coding	-0.36	3.71E-04	1.27E-02
ENSG00000151133	CCDC88C	protein_coding	-0.57	3.82E-04	1.31E-02
ENSG00000133872	SARAF	protein_coding	0.69	3.86E-04	1.32E-02
ENSG00000143375	CGN	protein_coding	1.05	3.92E-04	1.34E-02
ENSG00000162378	ZYG11B	protein_coding	0.44	4.08E-04	1.39E-02
ENSG00000197457	STMN3	protein_coding	-1.48	4.09E-04	1.39E-02
ENSG00000264364	DYNLL2	protein_coding	-0.40	4.10E-04	1.39E-02
ENSG00000180979	LRRC57	protein_coding	-0.50	4.14E-04	1.40E-02
ENSG00000186575	NF2	protein_coding	-0.32	4.23E-04	1.43E-02
ENSG00000057252	SOAT1	protein_coding	-0.41	4.26E-04	1.43E-02
ENSG00000161642	ZNF385A	protein_coding	-1.29	4.33E-04	1.45E-02

ENSG00000169764	UGP2	protein_coding	0.46	4.33E-04	1.45E-02
ENSG00000108395	TRIM37	protein_coding	0.36	4.43E-04	1.48E-02
ENSG00000099282	TSPAN15	protein_coding	0.70	4.44E-04	1.48E-02
ENSG00000138326	RPS24	protein_coding	0.34	4.47E-04	1.48E-02
ENSG00000168887	C2orf68	protein_coding	-0.47	4.54E-04	1.50E-02
ENSG00000168952	STXBP6	protein_coding	-0.64	4.63E-04	1.53E-02
ENSG00000160685	ZBTB7B	protein_coding	0.64	4.67E-04	1.54E-02
ENSG00000198088	NUP62CL	protein_coding	-0.83	4.67E-04	1.54E-02
ENSG00000053254	FOXN3	protein_coding	-0.44	4.73E-04	1.55E-02
ENSG00000119408	NEK6	protein_coding	0.40	4.79E-04	1.57E-02
ENSG00000140988	RPS2	protein_coding	0.78	4.79E-04	1.57E-02
ENSG00000197780	TAF13	protein_coding	-0.46	4.80E-04	1.57E-02
ENSG00000154640	BTG3	protein_coding	-0.41	4.83E-04	1.57E-02
ENSG00000058404	CAMK2B	protein_coding	0.68	4.85E-04	1.58E-02
ENSG00000168214	RBPJ	protein_coding	-0.39	5.23E-04	1.70E-02
ENSG00000140479	PCSK6	protein_coding	0.59	5.27E-04	1.71E-02
ENSG00000102572	STK24	protein_coding	-0.35	5.30E-04	1.71E-02
ENSG00000096696	DSP	protein_coding	0.46	5.36E-04	1.73E-02
ENSG00000087586	AURKA	protein_coding	-0.43	5.37E-04	1.73E-02
ENSG00000197930	ERO1A	protein_coding	-0.47	5.49E-04	1.76E-02
ENSG00000037965	HOXC8	protein_coding	0.65	5.65E-04	1.81E-02
ENSG00000119242	CCDC92	protein_coding	0.54	5.65E-04	1.81E-02
ENSG00000104695	PPP2CB	protein_coding	-0.43	5.68E-04	1.81E-02
ENSG00000164520	RAET1E	protein_coding	-0.81	5.67E-04	1.81E-02
ENSG00000220205	VAMP2	protein_coding	0.61	5.72E-04	1.82E-02
ENSG00000135372	NAT10	protein_coding	-0.37	5.75E-04	1.82E-02
ENSG00000112893	MAN2A1	protein_coding	-0.54	5.78E-04	1.83E-02
ENSG00000067208	EVI5	protein_coding	-0.48	5.84E-04	1.84E-02
ENSG00000138613	APH1B	protein_coding	-0.66	5.83E-04	1.84E-02
ENSG00000064313	TAF2	protein_coding	-0.43	5.86E-04	1.84E-02
ENSG00000143742	SRP9	protein_coding	-0.39	5.86E-04	1.84E-02
ENSG00000106080	FKBP14	protein_coding	-0.45	6.01E-04	1.88E-02
ENSG00000112276	BVES	protein_coding	-0.43	6.00E-04	1.88E-02
ENSG00000239713	APOBEC3G	protein_coding	0.74	6.03E-04	1.88E-02
ENSG00000123268	ATF1	protein_coding	0.47	6.08E-04	1.89E-02
ENSG00000133065	SLC41A1	protein_coding	-0.44	6.17E-04	1.91E-02
ENSG00000134376	CRB1	protein_coding	0.43	6.18E-04	1.91E-02
ENSG00000154127	UBASH3B	protein_coding	-0.51	6.19E-04	1.91E-02
ENSG00000174442	ZWILCH	protein_coding	-0.47	6.17E-04	1.91E-02
ENSG00000108384	RAD51C	protein_coding	-0.50	6.30E-04	1.94E-02
ENSG00000153066	TXNDC11	protein_coding	-0.38	6.30E-04	1.94E-02
ENSG00000183576	SETD3	protein_coding	0.36	6.28E-04	1.94E-02
ENSG00000149308	NPAT	protein_coding	-0.44	6.32E-04	1.94E-02
ENSG00000078018	MAP2	protein_coding	0.41	6.44E-04	1.96E-02
ENSG00000088836	SLC4A11	protein_coding	0.59	6.45E-04	1.96E-02
ENSG00000170142	UBE2E1	protein_coding	0.50	6.43E-04	1.96E-02
ENSG00000198712	MT-CO2	protein_coding	0.35	6.46E-04	1.96E-02
ENSG00000101266	CSNK2A1	protein_coding	-0.35	6.50E-04	1.97E-02
ENSG00000157168	NRG1	protein_coding	0.41	6.50E-04	1.97E-02
ENSG00000166225	FRS2	protein_coding	-0.44	6.67E-04	2.02E-02
ENSG00000112339	HBS1L	protein_coding	0.47	6.74E-04	2.03E-02
ENSG00000103222	ABCC1	protein_coding	0.59	6.77E-04	2.04E-02
ENSG00000135913	USP37	protein_coding	-0.46	6.76E-04	2.04E-02
ENSG00000070882	OSBPL3	protein_coding	-0.40	6.83E-04	2.05E-02
ENSG00000107438	PDLIM1	protein_coding	0.37	6.82E-04	2.05E-02
ENSG00000156697	UTP14A	protein_coding	0.36	6.86E-04	2.05E-02
ENSG00000224470	ATXN1L	protein_coding	-0.41	6.86E-04	2.05E-02
ENSG00000179715	PCED1B	protein_coding	0.80	6.91E-04	2.06E-02
ENSG00000196159	FAT4	protein_coding	0.48	6.93E-04	2.06E-02
ENSG00000082014	SMARCD3	protein_coding	0.68	6.95E-04	2.06E-02
ENSG00000125848	FLRT3	protein_coding	-0.72	7.03E-04	2.08E-02
ENSG00000160712	IL6R	protein_coding	-0.54	7.15E-04	2.11E-02
ENSG00000175395	ZNF25	protein_coding	0.63	7.17E-04	2.11E-02
ENSG00000128849	CGNL1	protein_coding	-0.49	7.38E-04	2.17E-02
ENSG00000130349	C6orf203	protein_coding	0.48	7.54E-04	2.21E-02

ENSG00000172954	LCLAT1	protein_coding	-0.54	7.79E-04	2.28E-02
ENSG00000118193	KIF14	protein_coding	-0.49	7.87E-04	2.30E-02
ENSG00000180875	GREM2	protein_coding	0.54	8.03E-04	2.34E-02
ENSG00000139146	FAM60A	protein_coding	-0.64	8.11E-04	2.36E-02
ENSG00000143499	SMYD2	protein_coding	0.43	8.19E-04	2.38E-02
ENSG00000065970	FOXJ2	protein_coding	0.38	8.23E-04	2.38E-02
ENSG00000136240	KDEL2	protein_coding	-0.36	8.22E-04	2.38E-02
ENSG00000176049	JAKMIP2	protein_coding	0.79	8.30E-04	2.40E-02
ENSG00000164619	BMPER	protein_coding	0.95	8.48E-04	2.44E-02
ENSG00000177888	ZBTB41	protein_coding	0.62	8.61E-04	2.47E-02
ENSG00000183401	CCDC159	protein_coding	0.89	8.60E-04	2.47E-02
ENSG00000064309	CDON	protein_coding	0.33	8.67E-04	2.48E-02
ENSG00000067533	RRP15	protein_coding	-0.69	8.73E-04	2.50E-02
ENSG00000156011	PSD3	protein_coding	-0.39	8.76E-04	2.50E-02
ENSG00000140836	ZFH3	protein_coding	0.33	8.82E-04	2.52E-02
ENSG00000160007	ARHGAP35	protein_coding	0.36	9.09E-04	2.59E-02
ENSG00000113494	PRLR	protein_coding	0.52	9.23E-04	2.62E-02
ENSG00000182768	NGRN	protein_coding	-0.38	9.25E-04	2.62E-02
ENSG00000011426	ANLN	protein_coding	-0.42	9.33E-04	2.64E-02
ENSG00000068366	ACSL4	protein_coding	0.52	9.47E-04	2.68E-02
ENSG00000227051	C14orf132	protein_coding	-1.46	9.51E-04	2.68E-02
ENSG00000139220	PPFIA2	protein_coding	0.56	9.53E-04	2.68E-02
ENSG00000185634	SHC4	protein_coding	-1.30	9.62E-04	2.70E-02
ENSG00000108797	CNTNAP1	protein_coding	0.47	9.64E-04	2.71E-02
ENSG00000115325	DOK1	protein_coding	0.68	9.70E-04	2.71E-02
ENSG00000157741	UBN2	protein_coding	-0.34	9.69E-04	2.71E-02
ENSG00000143409	MINDY1	protein_coding	0.52	9.77E-04	2.72E-02
ENSG00000157224	CLDN12	protein_coding	-0.53	9.76E-04	2.72E-02
ENSG00000154642	C21orf91	protein_coding	-0.54	9.82E-04	2.73E-02
ENSG00000213988	ZNF90	protein_coding	-0.51	9.84E-04	2.73E-02
ENSG00000107581	EIF3A	protein_coding	0.46	1.00E-03	2.77E-02
ENSG00000122870	BICC1	protein_coding	-0.58	1.03E-03	2.84E-02
ENSG00000084072	PPIE	protein_coding	-0.54	1.05E-03	2.89E-02
ENSG00000063978	RNF4	protein_coding	0.43	1.05E-03	2.89E-02
ENSG00000104643	MTMR9	protein_coding	-0.43	1.07E-03	2.94E-02
ENSG00000120334	CENPL	protein_coding	-0.35	1.07E-03	2.94E-02
ENSG00000122986	HVCN1	protein_coding	0.43	1.07E-03	2.95E-02
ENSG00000185345	PRKN	protein_coding	0.72	1.09E-03	2.97E-02
ENSG00000135318	NT5E	protein_coding	-0.57	1.11E-03	3.02E-02
ENSG00000136867	SLC31A2	protein_coding	-0.73	1.11E-03	3.02E-02
ENSG00000136492	BRIP1	protein_coding	-0.42	1.13E-03	3.07E-02
ENSG00000205045	SLFN12L	protein_coding	-0.96	1.14E-03	3.09E-02
ENSG00000108439	PNPO	protein_coding	-0.64	1.15E-03	3.10E-02
ENSG00000105289	TJP3	protein_coding	1.69	1.15E-03	3.11E-02
ENSG00000198018	ENTPD7	protein_coding	-0.39	1.15E-03	3.11E-02
ENSG00000131016	AKAP12	protein_coding	-0.38	1.16E-03	3.12E-02
ENSG00000182220	ATP6AP2	protein_coding	0.39	1.17E-03	3.14E-02
ENSG00000163710	PCOLCE2	protein_coding	-0.59	1.18E-03	3.16E-02
ENSG00000114098	ARMC8	protein_coding	-0.48	1.20E-03	3.20E-02
ENSG00000145675	PIK3R1	protein_coding	-0.47	1.22E-03	3.24E-02
ENSG00000138685	FGF2	protein_coding	0.53	1.23E-03	3.28E-02
ENSG00000152484	USP12	protein_coding	-0.54	1.26E-03	3.34E-02
ENSG00000165609	NUDT5	protein_coding	0.42	1.26E-03	3.35E-02
ENSG00000152223	EPG5	protein_coding	-0.36	1.27E-03	3.37E-02
ENSG00000103042	SLC38A7	protein_coding	0.52	1.28E-03	3.37E-02
ENSG00000021574	SPAST	protein_coding	0.44	1.29E-03	3.39E-02
ENSG00000154124	OTULIN	protein_coding	-0.36	1.29E-03	3.40E-02
ENSG00000164442	CITED2	protein_coding	0.33	1.30E-03	3.43E-02
ENSG00000143248	RGS5	protein_coding	0.86	1.39E-03	3.65E-02
ENSG00000148303	RPL7A	protein_coding	0.62	1.40E-03	3.67E-02
ENSG00000167535	CACNB3	protein_coding	0.82	1.41E-03	3.67E-02
ENSG00000136444	RSAD1	protein_coding	0.55	1.42E-03	3.69E-02
ENSG00000145794	MEGF10	protein_coding	-1.12	1.41E-03	3.69E-02
ENSG00000110756	HPS5	protein_coding	0.40	1.42E-03	3.70E-02
ENSG00000075213	SEMA3A	protein_coding	0.51	1.43E-03	3.71E-02

ENSG00000137962	ARHGAP29	protein_coding	-0.49	1.44E-03	3.73E-02
ENSG00000196504	PRPF40A	protein_coding	0.45	1.48E-03	3.82E-02
ENSG00000151151	IPMK	protein_coding	-0.66	1.48E-03	3.83E-02
ENSG00000154114	TBCEL	protein_coding	-0.88	1.49E-03	3.84E-02
ENSG00000127507	ADGRE2	protein_coding	1.40	1.49E-03	3.84E-02
ENSG00000057657	PRDM1	protein_coding	0.52	1.50E-03	3.84E-02
ENSG00000133056	PIK3C2B	protein_coding	0.47	1.50E-03	3.84E-02
ENSG00000138593	SECISBP2L	protein_coding	-0.42	1.51E-03	3.85E-02
ENSG00000168769	TET2	protein_coding	0.49	1.50E-03	3.85E-02
ENSG00000126803	HSPA2	protein_coding	0.84	1.51E-03	3.85E-02
ENSG00000004961	HCCS	protein_coding	-0.44	1.53E-03	3.91E-02
ENSG00000111752	PHC1	protein_coding	0.59	1.54E-03	3.92E-02
ENSG00000115084	SLC35F5	protein_coding	-0.46	1.57E-03	3.98E-02
ENSG00000102098	SCML2	protein_coding	-0.48	1.57E-03	3.99E-02
ENSG00000100605	ITPK1	protein_coding	0.91	1.58E-03	4.00E-02
ENSG00000070182	SPTB	protein_coding	-0.63	1.60E-03	4.04E-02
ENSG00000107341	UBE2R2	protein_coding	-0.37	1.60E-03	4.04E-02
ENSG00000203867	RBM20	protein_coding	0.48	1.60E-03	4.04E-02
ENSG00000134982	APC	protein_coding	0.48	1.61E-03	4.04E-02
ENSG00000105948	TTC26	protein_coding	-0.53	1.61E-03	4.05E-02
ENSG00000135074	ADAM19	protein_coding	-0.33	1.61E-03	4.05E-02
ENSG00000088899	LZTS3	protein_coding	0.68	1.64E-03	4.10E-02
ENSG00000106571	GLI3	protein_coding	-0.43	1.64E-03	4.10E-02
ENSG00000166046	TCP11L2	protein_coding	0.61	1.66E-03	4.14E-02
ENSG00000168710	AHCYL1	protein_coding	0.32	1.70E-03	4.24E-02
ENSG00000177076	ACER2	protein_coding	-0.93	1.71E-03	4.25E-02
ENSG00000168461	RAB31	protein_coding	-0.61	1.71E-03	4.25E-02
ENSG00000178074	C2orf69	protein_coding	-0.43	1.72E-03	4.25E-02
ENSG00000105649	RAB3A	protein_coding	0.75	1.73E-03	4.26E-02
ENSG00000176225	RTTN	protein_coding	-0.37	1.73E-03	4.26E-02
ENSG00000179454	KLHL28	protein_coding	-0.66	1.74E-03	4.28E-02
ENSG00000111247	RAD51AP1	protein_coding	-0.42	1.74E-03	4.29E-02
ENSG00000179456	ZBTB18	protein_coding	-0.75	1.75E-03	4.29E-02
ENSG00000155265	GOLGA7B	protein_coding	-1.65	1.78E-03	4.35E-02
ENSG00000170802	FOXN2	protein_coding	0.40	1.79E-03	4.37E-02
ENSG00000003249	DBNDD1	protein_coding	0.83	1.82E-03	4.43E-02
ENSG00000101849	TBL1X	protein_coding	0.70	1.84E-03	4.49E-02
ENSG00000172244	C5orf34	protein_coding	-0.49	1.89E-03	4.57E-02
ENSG00000178878	APOLD1	protein_coding	-0.45	1.89E-03	4.57E-02
ENSG00000182022	CHST15	protein_coding	0.51	1.88E-03	4.57E-02
ENSG00000184661	CDCA2	protein_coding	-0.38	1.89E-03	4.57E-02
ENSG00000137203	TFAP2A	protein_coding	0.32	1.93E-03	4.65E-02
ENSG00000168743	NPNT	protein_coding	-1.48	1.94E-03	4.67E-02
ENSG00000097046	CDC7	protein_coding	-0.46	1.96E-03	4.69E-02
ENSG00000172840	PDP2	protein_coding	-0.40	1.96E-03	4.69E-02
ENSG00000103540	CCP110	protein_coding	-0.50	1.98E-03	4.72E-02
ENSG00000151690	MFSD6	protein_coding	0.51	1.97E-03	4.72E-02
ENSG00000148229	POLE3	protein_coding	-0.33	1.99E-03	4.75E-02
ENSG00000125871	MGME1	protein_coding	-0.47	2.00E-03	4.76E-02
ENSG00000152782	PANK1	protein_coding	-0.59	2.02E-03	4.80E-02
ENSG00000175895	PLEKHF2	protein_coding	-0.63	2.02E-03	4.80E-02
ENSG00000116005	PCYOX1	protein_coding	0.40	2.06E-03	4.89E-02
ENSG00000160131	VMA21	protein_coding	-0.49	2.06E-03	4.89E-02

List of DE pcRNAs (Both Down-regulated)

	symbol
ENSG00000144959	NCEH1
ENSG00000143322	ABL2
ENSG00000153904	DDAH1
ENSG00000065911	MTHFD2
ENSG00000170385	SLC30A1
ENSG00000082146	STRADB
ENSG00000213390	ARHGAP19
ENSG00000197312	DDI2
ENSG00000184992	BRI3BP
ENSG00000174010	KLHL15
ENSG00000094975	SUCO
ENSG00000095203	EPB41L4B
ENSG00000184014	DENND5A
ENSG00000196950	SLC39A10
ENSG00000155380	SLC16A1
ENSG00000159055	MIS18A
ENSG00000175175	PPM1E
ENSG00000006432	MAP3K9
ENSG00000248109	AC011346.1
ENSG00000059804	SLC2A3
ENSG00000143815	LBR
ENSG00000159217	IGF2BP1
ENSG00000180694	TMEM64
ENSG00000247315	ZCCHC3
ENSG00000214510	SPINK13
ENSG00000171848	RRM2
ENSG00000114450	GNB4
ENSG00000139514	SLC7A1
ENSG00000006459	KDM7A
ENSG00000205268	PDE7A
ENSG00000115159	GPD2
ENSG00000165474	GJB2
ENSG00000128578	STRIP2
ENSG00000133740	E2F5
ENSG00000083067	TRPM3
ENSG00000143476	DTL
ENSG00000003989	SLC7A2
ENSG00000197977	ELOVL2
ENSG00000136122	BORA
ENSG00000138646	HERC5
ENSG00000139496	NUP58
ENSG00000171320	ESCO2
ENSG00000164466	SFXN1
ENSG00000124575	HIST1H1D
ENSG00000112078	KCTD20
ENSG00000168411	RFWD3
ENSG00000105173	CCNE1
ENSG00000204923	FBXO48
ENSG00000164045	CDC25A
ENSG00000110092	CCND1
ENSG00000121957	GPSM2
ENSG00000120837	NFYB
ENSG00000167005	NUDT21
ENSG00000164236	ANKRD33B
ENSG00000167378	IRGQ
ENSG00000181826	RELL1
ENSG00000172795	DCP2
ENSG00000101290	CDS2
ENSG00000129317	PUS7L
ENSG00000186472	PCLO

ENSG00000124145	SDC4
ENSG00000167767	KRT80
ENSG00000069869	NEDD4
ENSG00000167034	NKX3-1
ENSG00000164023	SGMS2
ENSG00000184156	KCNQ3
ENSG00000197329	PELI1
ENSG00000143878	RHOB
ENSG00000156463	SH3RF2
ENSG00000120539	MASTL
ENSG00000100625	SIX4
ENSG00000214189	ZNF788
ENSG00000118495	PLAGL1
ENSG00000123612	ACVR1C
ENSG00000156052	GNAQ
ENSG00000134531	EMP1
ENSG00000169902	TPST1
ENSG00000267041	ZNF850
ENSG00000170113	NIPA1
ENSG00000158615	PPP1R15B
ENSG00000180998	GPR137C
ENSG00000143033	MTF2
ENSG00000167325	RRM1
ENSG00000110911	SLC11A2
ENSG00000101846	STS
ENSG00000075391	RASAL2
ENSG00000197557	TTC30A
ENSG00000145416	MARCH1
ENSG00000155897	ADCY8
ENSG00000125266	EFNB2
ENSG00000128923	MINDY2
ENSG00000149554	CHEK1
ENSG00000173281	PPP1R3B
ENSG00000120137	PANK3
ENSG00000174013	FBXO45
ENSG00000006607	FARP2
ENSG00000205208	C4orf46
ENSG00000121579	NAA50
ENSG00000179331	RAB39A
ENSG00000172469	MANEA
ENSG00000180979	LRRC57
ENSG00000168952	STXBP6
ENSG00000198088	NUP62CL
ENSG00000053254	FOXN3
ENSG00000154640	BTG3
ENSG00000168214	RBPJ
ENSG00000087586	AURKA
ENSG00000197930	ERO1A
ENSG00000112893	MAN2A1
ENSG00000106080	FKBP14
ENSG00000112276	BVES
ENSG00000154127	UBASH3B
ENSG00000174442	ZWILCH
ENSG00000153066	TXNDC11
ENSG00000149308	NPAT
ENSG00000135913	USP37
ENSG00000125848	FLRT3
ENSG00000160712	IL6R
ENSG00000172954	LCLAT1
ENSG00000118193	KIF14
ENSG00000136240	KDEL2
ENSG00000011426	ANLN



ENSG00000157224	CLDN12
ENSG00000213988	ZNF90
ENSG00000104643	MTMR9
ENSG00000120334	CENPL
ENSG00000136492	BRIP1
ENSG00000198018	ENTPD7
ENSG00000145794	MEGF10
ENSG00000137962	ARHGAP29
ENSG00000151151	IPMK
ENSG00000004961	HCCS
ENSG00000102098	SCML2
ENSG00000135074	ADAM19
ENSG00000176225	RTTN
ENSG00000111247	RAD51AP1
ENSG00000172244	C5orf34
ENSG00000184661	CDCA2
ENSG00000148229	POLE3

List of DE pcRNAs (Both Up-regulated)

	symbol
ENSG00000101350	KIF3B
ENSG00000123213	NLN
ENSG00000186298	PPP1CC
ENSG00000147853	AK3
ENSG00000035403	VCL
ENSG00000001461	NIPAL3
ENSG00000134046	MBD2
ENSG00000125249	RAP2A
ENSG00000165704	HPRT1
ENSG00000100554	ATP6V1D
ENSG00000145335	SNCA
ENSG00000169180	XPO6
ENSG00000100503	NIN
ENSG00000120594	PLXDC2
ENSG00000185896	LAMP1
ENSG00000108821	COL1A1
ENSG00000101000	PROCR
ENSG00000114812	VIPR1
ENSG00000135823	STX6
ENSG00000110048	OSBP
ENSG00000115825	PRKD3
ENSG00000070614	NDST1
ENSG00000112763	BTN2A1
ENSG00000167601	AXL
ENSG00000122203	KIAA1191
ENSG00000139644	TMBIM6
ENSG00000006125	AP2B1
ENSG00000120656	TAF12
ENSG00000140105	WARS
ENSG00000108100	CCNY
ENSG00000153214	TMEM87B
ENSG00000063180	CA11
ENSG00000133606	MKRN1
ENSG00000205221	VIT
ENSG00000167193	CRK
ENSG00000170004	CHD3
ENSG00000057663	ATG5
ENSG00000130066	SAT1
ENSG00000178695	KCTD12
ENSG00000157388	CACNA1D
ENSG00000022840	RNF10
ENSG00000183283	DAZAP2
ENSG00000182670	TTC3
ENSG00000271601	LIX1L
ENSG00000153956	CACNA2D1
ENSG00000105270	CLIP3
ENSG00000145901	TNIP1
ENSG00000165097	KDM1B
ENSG00000122376	FAM35A
ENSG00000198824	CHAMP1
ENSG00000178662	CSRNP3
ENSG00000136816	TOR1B
ENSG00000128829	EIF2AK4
ENSG00000065000	AP3D1
ENSG00000101911	PRPS2
ENSG00000111679	PTPN6
ENSG00000048471	SNX29
ENSG00000113845	TIMMDC1
ENSG00000169905	TOR1AIP2
ENSG00000159720	ATP6V0D1

ENSG00000111540	RAB5B
ENSG00000135312	HTR1B
ENSG00000137177	KIF13A
ENSG00000104081	BMF
ENSG00000131374	TBC1D5
ENSG00000198492	YTHDF2
ENSG00000143418	CERS2
ENSG00000115539	PDCL3
ENSG00000145882	PCYOX1L
ENSG00000136352	NKX2-1
ENSG00000177981	ASB8
ENSG00000198786	MT-ND5
ENSG00000163820	FYCO1
ENSG00000101104	PABPC1L
ENSG00000112902	SEMA5A
ENSG00000171451	DSEL
ENSG00000160710	ADAR
ENSG00000110844	PRPF40B
ENSG00000103591	AAGAB
ENSG00000176046	NUPR1
ENSG0000011465	DCN
ENSG00000130956	HABP4
ENSG00000121064	SCPEP1
ENSG00000104490	NCALD
ENSG00000101752	MIB1
ENSG00000140319	SRP14
ENSG00000225830	ERCC6
ENSG00000137478	FCHSD2
ENSG00000124541	RRP36
ENSG00000163900	TMEM41A
ENSG00000177570	SAMD12
ENSG00000137273	FOXF2
ENSG00000138660	AP1AR
ENSG00000223501	VPS52
ENSG00000075089	ACTR6
ENSG00000099250	NRP1
ENSG00000186470	BTN3A2
ENSG00000186834	HEXIM1
ENSG00000143641	GALNT2
ENSG00000121691	CAT
ENSG00000133872	SARAF
ENSG00000143375	CGN
ENSG00000162378	ZYG11B
ENSG00000108395	TRIM37
ENSG00000099282	TSPAN15
ENSG00000138326	RPS24
ENSG00000160685	ZBTB7B
ENSG00000140988	RPS2
ENSG00000220205	VAMP2
ENSG00000078018	MAP2
ENSG00000157168	NRG1
ENSG00000103222	ABCC1
ENSG00000196159	FAT4
ENSG00000175395	ZNF25
ENSG00000130349	C6orf203
ENSG00000176049	JAKMIP2
ENSG00000183401	CCDC159
ENSG00000064309	CDON
ENSG00000160007	ARHGAP35
ENSG00000068366	ACSL4
ENSG00000108797	CNTNAP1
ENSG00000115325	DOK1

ENSG00000143409	MINDY1
ENSG00000185345	PRKN
ENSG00000138685	FGF2
ENSG00000165609	NUDT5
ENSG00000103042	SLC38A7
ENSG00000164442	CITED2
ENSG00000143248	RGS5
ENSG00000148303	RPL7A
ENSG00000136444	RSAD1
ENSG00000057657	PRDM1
ENSG00000126803	HSPA2
ENSG00000100605	ITPK1
ENSG00000168710	AHCYL1
ENSG00000170802	FOXN2
ENSG00000137203	TFAP2A

List of DE pcRNAs (Down-regulated in LongTKD vs.NC but Up-regulated in ShortTKD vs. NC)

	symbol
ENSG00000168329	CX3CR1
ENSG00000112964	GHR
ENSG00000255690	TRIL
ENSG00000142149	HUNK
ENSG00000092964	DPYSL2
ENSG00000154928	EPHB1
ENSG00000169764	UGP2
ENSG00000058404	CAMK2B
ENSG00000088836	SLC4A11
ENSG00000122986	HVCN1

List of DE miRNAs (LongTKD vs. NC)

	logFC	PValue	qvalue
hsa-let-7e-5p	-1.25	4.92E-14	3.24E-11
hsa-miR-137-3p	-0.91	2.33E-05	7.69E-03
hsa-miR-1290	0.94	4.83E-05	7.96E-03
hsa-miR-1294	-2.23	3.98E-05	7.96E-03
hsa-miR-7-5p	-0.74	1.01E-04	1.34E-02
hsa-miR-25-5p	-0.74	1.76E-04	1.93E-02
hsa-miR-92a-2-5p	-2.75	2.30E-04	2.16E-02
hsa-miR-106a-5p	-0.71	5.41E-04	4.46E-02

List of DE miRNAs (ShortTKD vs. NC)

	logFC	PValue	qvalue
hsa-miR-432-5p	-1.19	2.60E-07	1.70E-04
hsa-miR-374b-3p	0.95	1.27E-06	4.16E-04
hsa-miR-361-3p	-0.93	2.20E-06	4.79E-04
hsa-miR-137-3p	-0.78	4.01E-05	6.56E-03

List of DE miRNA (Both Down-regulated)  
hsa-miR-137-3p



## GO analysis (LongTKD vs. NC)

ONTOLOGY	ID	GeneRatio	BgRatio	pvalue	qvalue
BP	GO:0000819	49/1364	249/19623	2.59E-11	1.26E-07
BP	GO:0007059	64/1364	383/19623	4.57E-11	1.26E-07
BP	GO:0007062	34/1364	141/19623	1.03E-10	1.90E-07
BP	GO:0098813	56/1364	333/19623	5.87E-10	8.08E-07
BP	GO:0006260	52/1364	310/19623	2.64E-09	2.91E-06
BP	GO:0006261	33/1364	154/19623	4.93E-09	4.53E-06
BP	GO:0000082	48/1364	295/19623	2.89E-08	2.11E-05
BP	GO:0044843	50/1364	314/19623	3.06E-08	2.11E-05
BP	GO:0006270	15/1364	43/19623	9.38E-08	5.74E-05
BP	GO:0140014	45/1364	291/19623	3.51E-07	1.93E-04
BP	GO:0000280	61/1364	453/19623	4.98E-07	2.49E-04
BP	GO:0034620	31/1364	172/19623	8.64E-07	3.96E-04
BP	GO:0030968	27/1364	139/19623	9.60E-07	4.07E-04
BP	GO:0006986	34/1364	202/19623	1.34E-06	5.27E-04
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BP	GO:0034976	44/1364	305/19623	3.19E-06	1.02E-03
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BP	GO:0070601	7/1364	12/19623	4.48E-06	1.30E-03
BP	GO:0010769	42/1364	290/19623	4.79E-06	1.32E-03
BP	GO:0035966	36/1364	233/19623	5.17E-06	1.35E-03
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BP	GO:0001503	53/1364	404/19623	5.97E-06	1.37E-03
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BP	GO:0000075	38/1364	259/19623	9.86E-06	1.98E-03
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BP	GO:0034724	14/1364	57/19623	2.60E-05	3.98E-03
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BP	GO:0060348	31/1364	205/19623	3.49E-05	5.03E-03
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BP	GO:0061983	6/1364	11/19623	3.80E-05	5.03E-03
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BP	GO:0034508	13/1364	55/19623	7.73E-05	7.88E-03
BP	GO:0031960	27/1364	176/19623	8.48E-05	8.49E-03
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BP	GO:0070102	7/1364	18/19623	1.24E-04	1.16E-02
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BP	GO:0007088	26/1364	171/19623	1.32E-04	1.17E-02
BP	GO:0035690	46/1364	376/19623	1.33E-04	1.17E-02
BP	GO:0006302	33/1364	240/19623	1.34E-04	1.17E-02
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BP	GO:0001893	9/1364	31/19623	1.83E-04	1.49E-02
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BP	GO:0030900	47/1364	401/19623	3.07E-04	2.22E-02
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BP	GO:0014066	19/1364	114/19623	3.13E-04	2.22E-02
BP	GO:0031572	10/1364	40/19623	3.15E-04	2.22E-02
BP	GO:0060349	16/1364	88/19623	3.34E-04	2.33E-02
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BP	GO:0021987	20/1364	128/19623	5.27E-04	3.00E-02
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BP	GO:0051784	12/1364	58/19623	5.42E-04	3.02E-02
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BP	GO:0048017	25/1364	177/19623	5.54E-04	3.05E-02
BP	GO:0032355	20/1364	129/19623	5.84E-04	3.15E-02
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BP	GO:0007409	53/1364	481/19623	5.93E-04	3.17E-02
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BP	GO:0060135	12/1364	59/19623	6.38E-04	3.35E-02
BP	GO:0007565	27/1364	199/19623	6.45E-04	3.35E-02
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BP	GO:0015893	28/1364	210/19623	6.85E-04	3.49E-02
BP	GO:0000077	26/1364	190/19623	7.07E-04	3.57E-02
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BP	GO:0071383	34/1364	277/19623	8.91E-04	4.23E-02
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BP	GO:0043062	49/1364	445/19623	9.50E-04	4.44E-02
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BP	GO:0051650	32/1364	258/19623	1.04E-03	4.75E-02
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BP	GO:0032526	18/1364	117/19623	1.18E-03	5.19E-02
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BP	GO:0071897	28/1364	218/19623	1.23E-03	5.32E-02
BP	GO:0051648	33/1364	272/19623	1.28E-03	5.48E-02
BP	GO:0006855	14/1364	81/19623	1.29E-03	5.48E-02
BP	GO:0060174	5/1364	13/19623	1.29E-03	5.48E-02
BP	GO:0046777	31/1364	251/19623	1.33E-03	5.58E-02
BP	GO:0006470	40/1364	350/19623	1.35E-03	5.59E-02
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BP	GO:0006978	6/1364	19/19623	1.38E-03	5.59E-02
BP	GO:0001764	21/1364	148/19623	1.40E-03	5.59E-02
BP	GO:0009312	9/1364	40/19623	1.41E-03	5.59E-02
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BP	GO:0033047	12/1364	65/19623	1.56E-03	5.80E-02
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BP	GO:1901988	34/1364	288/19623	1.74E-03	6.17E-02
BP	GO:0010038	40/1364	355/19623	1.75E-03	6.18E-02
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BP	GO:0003323	6/1364	20/19623	1.85E-03	6.18E-02
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BP	GO:0014841	5/1364	14/19623	1.90E-03	6.21E-02
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BP	GO:0071214	37/1364	323/19623	1.92E-03	6.21E-02
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BP	GO:0006282	16/1364	103/19623	1.95E-03	6.27E-02
BP	GO:0009411	20/1364	142/19623	1.96E-03	6.28E-02
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BP	GO:0046683	19/1364	135/19623	2.53E-03	7.37E-02
BP	GO:0050770	23/1364	176/19623	2.56E-03	7.43E-02
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BP	GO:0035282	15/1364	98/19623	3.07E-03	8.09E-02
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BP	GO:0021895	6/1364	22/19623	3.16E-03	8.18E-02
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BP	GO:0060487	6/1364	22/19623	3.16E-03	8.18E-02
BP	GO:1903573	10/1364	53/19623	3.18E-03	8.18E-02
BP	GO:1902806	26/1364	211/19623	3.21E-03	8.18E-02
BP	GO:2001020	26/1364	211/19623	3.21E-03	8.18E-02
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BP	GO:0008207	8/1364	37/19623	3.36E-03	8.40E-02
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BP	GO:0010811	16/1364	109/19623	3.50E-03	8.56E-02
BP	GO:0070507	24/1364	191/19623	3.52E-03	8.56E-02
BP	GO:0008584	19/1364	139/19623	3.53E-03	8.56E-02
BP	GO:1903510	17/1364	119/19623	3.55E-03	8.57E-02
BP	GO:0010965	10/1364	54/19623	3.66E-03	8.75E-02
BP	GO:0001832	5/1364	16/19623	3.68E-03	8.75E-02
BP	GO:1901991	31/1364	268/19623	3.68E-03	8.75E-02
BP	GO:0007265	51/1364	499/19623	3.69E-03	8.75E-02
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BP	GO:0044344	20/1364	150/19623	3.75E-03	8.82E-02
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BP	GO:0006275	18/1364	130/19623	3.87E-03	8.98E-02
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BP	GO:0006022	23/1364	182/19623	3.93E-03	9.08E-02
BP	GO:0008089	8/1364	38/19623	4.00E-03	9.17E-02
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BP	GO:0060479	6/1364	23/19623	4.03E-03	9.17E-02
BP	GO:0048771	23/1364	183/19623	4.20E-03	9.53E-02
BP	GO:0046364	14/1364	92/19623	4.38E-03	9.90E-02
BP	GO:0003007	29/1364	249/19623	4.41E-03	9.92E-02
CC	GO:0000775	47/1414	208/20758	1.83E-13	1.19E-10

CC	GO:0000793	47/1414	233/20758	1.37E-11	4.46E-09
CC	GO:0000779	31/1414	124/20758	1.59E-10	3.45E-08
CC	GO:0000776	32/1414	142/20758	1.39E-09	2.26E-07
CC	GO:0000777	27/1414	111/20758	4.56E-09	5.93E-07
CC	GO:0098687	57/1414	383/20758	2.01E-08	2.18E-06
CC	GO:0005819	50/1414	343/20758	2.81E-07	2.62E-05
CC	GO:0030117	21/1414	102/20758	4.26E-06	3.08E-04
CC	GO:0048475	21/1414	102/20758	4.26E-06	3.08E-04
CC	GO:0000940	7/1414	14/20758	1.50E-05	9.79E-04
CC	GO:0005657	16/1414	71/20758	1.77E-05	1.05E-03
CC	GO:0030120	14/1414	58/20758	2.57E-05	1.40E-03
CC	GO:0000794	19/1414	105/20758	7.92E-05	3.96E-03
CC	GO:0042383	22/1414	138/20758	1.60E-04	7.44E-03
CC	GO:0000922	24/1414	158/20758	1.77E-04	7.50E-03
CC	GO:0030127	6/1414	14/20758	1.84E-04	7.50E-03
CC	GO:0030496	25/1414	171/20758	2.42E-04	9.27E-03
CC	GO:0000780	7/1414	23/20758	6.23E-04	2.25E-02
CC	GO:0033267	42/1414	367/20758	6.82E-04	2.34E-02
CC	GO:0005614	5/1414	12/20758	7.69E-04	2.50E-02
CC	GO:0005911	51/1414	479/20758	1.03E-03	3.21E-02
CC	GO:0000778	5/1414	13/20758	1.18E-03	3.49E-02
CC	GO:0016327	6/1414	20/20758	1.67E-03	4.73E-02
CC	GO:0005876	11/1414	59/20758	1.90E-03	5.15E-02
CC	GO:0005874	46/1414	443/20758	2.90E-03	7.54E-02

## GO analysis (ShortTKD vs. NC)

ONTOLOGY	ID	GeneRatio	BgRatio	pvalue	qvalue
BP	GO:1902751	8/584	27/19623	7.90E-07	3.66E-03
BP	GO:0010971	7/584	23/19623	3.23E-06	7.47E-03
BP	GO:0007265	34/584	499/19623	7.03E-06	1.09E-02
BP	GO:0040013	29/584	403/19623	1.20E-05	1.25E-02
BP	GO:1905477	14/584	120/19623	1.35E-05	1.25E-02
BP	GO:0051271	27/584	370/19623	1.87E-05	1.44E-02
BP	GO:2000146	25/584	338/19623	3.03E-05	2.00E-02
BP	GO:1905475	16/584	167/19623	4.05E-05	2.35E-02
BP	GO:0045787	28/584	413/19623	4.92E-05	2.53E-02
BP	GO:0070936	9/584	59/19623	5.74E-05	2.66E-02
BP	GO:0030900	27/584	401/19623	7.50E-05	2.68E-02
BP	GO:0000082	22/584	295/19623	7.94E-05	2.68E-02
BP	GO:0010975	30/584	470/19623	8.05E-05	2.68E-02
BP	GO:0060840	11/584	91/19623	8.10E-05	2.68E-02
BP	GO:0090068	22/584	298/19623	9.20E-05	2.74E-02
BP	GO:0007389	29/584	452/19623	9.64E-05	2.74E-02
BP	GO:0030336	23/584	322/19623	1.06E-04	2.74E-02
BP	GO:0030705	16/584	181/19623	1.06E-04	2.74E-02
BP	GO:0001654	25/584	372/19623	1.41E-04	3.07E-02
BP	GO:0006855	10/584	81/19623	1.42E-04	3.07E-02
BP	GO:0007350	5/584	18/19623	1.43E-04	3.07E-02
BP	GO:0000083	6/584	28/19623	1.46E-04	3.07E-02
BP	GO:0060401	15/584	169/19623	1.66E-04	3.33E-02
BP	GO:0072331	22/584	312/19623	1.78E-04	3.34E-02
BP	GO:1903829	25/584	378/19623	1.81E-04	3.34E-02
BP	GO:0036010	5/584	19/19623	1.89E-04	3.34E-02
BP	GO:0044843	22/584	314/19623	1.95E-04	3.34E-02
BP	GO:0060402	14/584	154/19623	2.11E-04	3.42E-02
BP	GO:0051302	15/584	173/19623	2.14E-04	3.42E-02
BP	GO:0032465	10/584	87/19623	2.58E-04	3.91E-02
BP	GO:0043010	22/584	322/19623	2.77E-04	3.91E-02
BP	GO:0051924	19/584	258/19623	2.80E-04	3.91E-02
BP	GO:1901796	16/584	198/19623	2.99E-04	3.91E-02
BP	GO:0042542	13/584	141/19623	3.07E-04	3.91E-02
BP	GO:0032482	9/584	73/19623	3.07E-04	3.91E-02
BP	GO:0003205	14/584	160/19623	3.14E-04	3.91E-02
BP	GO:0043393	17/584	219/19623	3.15E-04	3.91E-02
BP	GO:0045216	19/584	261/19623	3.24E-04	3.91E-02
BP	GO:0000910	15/584	180/19623	3.29E-04	3.91E-02
BP	GO:0021954	9/584	74/19623	3.40E-04	3.94E-02
BP	GO:1901989	10/584	93/19623	4.44E-04	5.00E-02
BP	GO:0034765	28/584	472/19623	4.54E-04	5.00E-02
BP	GO:0003002	23/584	358/19623	4.86E-04	5.08E-02
BP	GO:0021700	19/584	271/19623	5.17E-04	5.08E-02
BP	GO:0022604	29/584	500/19623	5.20E-04	5.08E-02
BP	GO:0010970	13/584	149/19623	5.23E-04	5.08E-02
BP	GO:0099111	13/584	149/19623	5.23E-04	5.08E-02
BP	GO:0001763	17/584	229/19623	5.27E-04	5.08E-02
BP	GO:1901992	9/584	79/19623	5.55E-04	5.25E-02
BP	GO:0000077	15/584	190/19623	5.84E-04	5.41E-02
BP	GO:0031571	9/584	80/19623	6.10E-04	5.43E-02
BP	GO:0044819	9/584	80/19623	6.10E-04	5.43E-02
BP	GO:0007162	20/584	298/19623	6.48E-04	5.48E-02
BP	GO:0044783	9/584	81/19623	6.68E-04	5.48E-02
BP	GO:1903169	13/584	153/19623	6.72E-04	5.48E-02
BP	GO:0010522	10/584	98/19623	6.75E-04	5.48E-02
BP	GO:0035282	10/584	98/19623	6.75E-04	5.48E-02
BP	GO:0007411	18/584	257/19623	7.27E-04	5.80E-02
BP	GO:0044839	20/584	302/19623	7.64E-04	5.84E-02
BP	GO:0097553	12/584	136/19623	7.67E-04	5.84E-02

BP	GO:0061138	16/584	216/19623	7.78E-04	5.84E-02
BP	GO:0043473	10/584	100/19623	7.91E-04	5.84E-02
BP	GO:0097485	18/584	259/19623	7.95E-04	5.84E-02
BP	GO:0016358	17/584	238/19623	8.12E-04	5.88E-02
BP	GO:0035904	7/584	52/19623	8.35E-04	5.95E-02
BP	GO:0031589	22/584	350/19623	8.53E-04	5.99E-02
BP	GO:0010959	24/584	397/19623	8.74E-04	6.04E-02
BP	GO:0021885	8/584	68/19623	9.02E-04	6.14E-02
BP	GO:0000086	19/584	285/19623	9.48E-04	6.36E-02
BP	GO:0031570	15/584	200/19623	9.90E-04	6.54E-02
BP	GO:0003231	11/584	122/19623	1.05E-03	6.85E-02
BP	GO:1901990	27/584	475/19623	1.08E-03	6.94E-02
BP	GO:0009411	12/584	142/19623	1.12E-03	7.07E-02
BP	GO:0051098	23/584	381/19623	1.13E-03	7.07E-02
BP	GO:1990778	19/584	290/19623	1.16E-03	7.18E-02
BP	GO:0045931	13/584	163/19623	1.21E-03	7.24E-02
BP	GO:0006835	9/584	88/19623	1.22E-03	7.24E-02
BP	GO:0048732	27/584	479/19623	1.22E-03	7.24E-02
BP	GO:0021602	5/584	28/19623	1.28E-03	7.49E-02
BP	GO:0043297	8/584	72/19623	1.32E-03	7.57E-02
BP	GO:1901861	13/584	165/19623	1.35E-03	7.57E-02
BP	GO:1990138	13/584	165/19623	1.35E-03	7.57E-02
BP	GO:0048532	4/584	17/19623	1.36E-03	7.57E-02
BP	GO:1904062	20/584	318/19623	1.43E-03	7.85E-02
BP	GO:0006513	8/584	73/19623	1.44E-03	7.85E-02
BP	GO:0016236	20/584	319/19623	1.49E-03	7.93E-02
BP	GO:0048634	13/584	167/19623	1.51E-03	7.93E-02
BP	GO:2000810	5/584	29/19623	1.51E-03	7.93E-02
BP	GO:0003158	12/584	148/19623	1.60E-03	8.23E-02
BP	GO:0000186	7/584	58/19623	1.61E-03	8.23E-02
BP	GO:0032456	6/584	43/19623	1.62E-03	8.23E-02
BP	GO:0016570	27/584	490/19623	1.69E-03	8.50E-02
BP	GO:0034330	19/584	300/19623	1.72E-03	8.56E-02
BP	GO:0045665	15/584	212/19623	1.77E-03	8.68E-02
BP	GO:1904377	7/584	59/19623	1.78E-03	8.68E-02
BP	GO:0060537	24/584	420/19623	1.86E-03	8.99E-02
BP	GO:0072659	17/584	258/19623	1.95E-03	9.02E-02
BP	GO:0031345	13/584	172/19623	1.96E-03	9.02E-02
BP	GO:0034620	13/584	172/19623	1.96E-03	9.02E-02
BP	GO:0006470	21/584	350/19623	1.96E-03	9.02E-02
BP	GO:2000045	14/584	193/19623	1.97E-03	9.02E-02
BP	GO:0045667	11/584	132/19623	1.99E-03	9.02E-02
BP	GO:0000075	17/584	259/19623	2.03E-03	9.05E-02
BP	GO:1900739	5/584	31/19623	2.05E-03	9.05E-02
BP	GO:1900740	5/584	31/19623	2.05E-03	9.05E-02
BP	GO:1904375	9/584	95/19623	2.09E-03	9.11E-02
BP	GO:0015800	7/584	61/19623	2.16E-03	9.36E-02
BP	GO:0021675	8/584	78/19623	2.21E-03	9.38E-02
BP	GO:0051279	8/584	78/19623	2.21E-03	9.38E-02
BP	GO:0032231	9/584	96/19623	2.24E-03	9.44E-02
BP	GO:0048469	13/584	175/19623	2.29E-03	9.45E-02
BP	GO:0070588	20/584	331/19623	2.29E-03	9.45E-02
BP	GO:1902475	6/584	46/19623	2.31E-03	9.45E-02
BP	GO:0070830	7/584	62/19623	2.38E-03	9.64E-02
BP	GO:0072384	8/584	79/19623	2.39E-03	9.64E-02
BP	GO:0009952	15/584	219/19623	2.42E-03	9.64E-02
BP	GO:0006816	25/584	454/19623	2.49E-03	9.64E-02
BP	GO:0032886	15/584	220/19623	2.53E-03	9.64E-02
BP	GO:0007413	4/584	20/19623	2.57E-03	9.64E-02
BP	GO:0106030	4/584	20/19623	2.57E-03	9.64E-02
BP	GO:0048066	6/584	47/19623	2.58E-03	9.64E-02
BP	GO:0034644	8/584	80/19623	2.59E-03	9.64E-02

BP	GO:0000302	16/584	243/19623	2.63E-03	9.64E-02
BP	GO:0061351	11/584	137/19623	2.66E-03	9.64E-02
BP	GO:0010603	3/584	10/19623	2.69E-03	9.64E-02
BP	GO:0018026	3/584	10/19623	2.69E-03	9.64E-02
BP	GO:0060600	3/584	10/19623	2.69E-03	9.64E-02
BP	GO:0072386	3/584	10/19623	2.69E-03	9.64E-02
BP	GO:0090150	20/584	336/19623	2.72E-03	9.64E-02
BP	GO:0010762	5/584	33/19623	2.73E-03	9.64E-02
BP	GO:0051209	10/584	118/19623	2.77E-03	9.64E-02
BP	GO:0051283	10/584	118/19623	2.77E-03	9.64E-02
BP	GO:0010769	18/584	290/19623	2.79E-03	9.64E-02
BP	GO:0001655	20/584	337/19623	2.82E-03	9.64E-02
BP	GO:0032147	21/584	361/19623	2.83E-03	9.64E-02
BP	GO:0035967	14/584	201/19623	2.86E-03	9.64E-02
BP	GO:0021545	6/584	48/19623	2.87E-03	9.64E-02
BP	GO:0034656	6/584	48/19623	2.87E-03	9.64E-02
BP	GO:0008360	13/584	180/19623	2.92E-03	9.70E-02
BP	GO:0051282	10/584	119/19623	2.95E-03	9.70E-02
BP	GO:0006865	11/584	139/19623	2.98E-03	9.70E-02
BP	GO:0030968	11/584	139/19623	2.98E-03	9.70E-02
BP	GO:0006986	14/584	202/19623	3.00E-03	9.70E-02
BP	GO:0015807	7/584	65/19623	3.12E-03	9.72E-02
BP	GO:0022029	7/584	65/19623	3.12E-03	9.72E-02
BP	GO:0050768	17/584	270/19623	3.12E-03	9.72E-02
BP	GO:0001844	5/584	34/19623	3.13E-03	9.72E-02
BP	GO:0050931	5/584	34/19623	3.13E-03	9.72E-02
BP	GO:0006979	26/584	487/19623	3.13E-03	9.72E-02
BP	GO:1902903	21/584	365/19623	3.22E-03	9.95E-02
CC	GO:0044233	5/612	14/20758	3.52E-05	1.32E-02
CC	GO:0030496	16/612	171/20758	4.86E-05	1.32E-02
CC	GO:0005911	29/612	479/20758	2.24E-04	3.20E-02
CC	GO:0044232	5/612	20/20758	2.35E-04	3.20E-02
CC	GO:0016328	8/612	62/20758	4.54E-04	4.93E-02
CC	GO:0032155	8/612	69/20758	9.37E-04	7.87E-02
CC	GO:0031300	15/612	204/20758	1.11E-03	7.87E-02
CC	GO:0032154	7/612	56/20758	1.24E-03	7.87E-02
CC	GO:0043296	12/612	147/20758	1.40E-03	7.87E-02
CC	GO:0005923	11/612	128/20758	1.45E-03	7.87E-02
CC	GO:0070160	11/612	131/20758	1.74E-03	7.91E-02
CC	GO:0097542	6/612	44/20758	1.74E-03	7.91E-02
CC	GO:0010494	6/612	46/20758	2.20E-03	8.69E-02
CC	GO:0030667	21/612	357/20758	2.24E-03	8.69E-02
CC	GO:0005916	3/612	10/20758	2.62E-03	9.51E-02
MF	GO:0019003	9/587	60/19443	7.34E-05	5.98E-02



KEGG analysis (LongTKD vs. NC)

ID	GeneRatio	BgRatio	pvalue	qvalue
hsa04110	26/610	124/7852	2.28E-06	7.02E-04
hsa04141	26/610	165/7852	3.83E-04	4.32E-02
hsa04512	16/610	82/7852	4.78E-04	4.32E-02
hsa04218	25/610	160/7852	5.61E-04	4.32E-02
hsa03460	12/610	54/7852	7.17E-04	4.42E-02
hsa04115	14/610	72/7852	1.10E-03	4.72E-02
hsa05412	14/610	72/7852	1.10E-03	4.72E-02
hsa05110	11/610	50/7852	1.29E-03	4.72E-02
hsa04114	20/610	125/7852	1.45E-03	4.72E-02
hsa04931	18/610	108/7852	1.53E-03	4.72E-02
hsa05165	40/610	330/7852	2.99E-03	7.67E-02
hsa04510	27/610	199/7852	2.99E-03	7.67E-02
hsa04151	42/610	354/7852	3.53E-03	8.29E-02
hsa04914	16/610	99/7852	3.77E-03	8.29E-02

KEGG analysis (ShortTKD vs. NC)

ID	GeneRatio	BgRatio	pvalue	qvalue
hsa04012	12/285	85/7847	5.13E-05	1.41E-02
hsa04530	17/285	170/7847	1.39E-04	1.91E-02